

**CURRICULUM VITAE**  
**(Updated September 26, 2016)**



Gjumrakch Aliev, M.D., Ph.D.

**Position and Affiliation:**

**President and CEO "GALLY" International Biomedical Research Consulting LLC.**

Address: 7733 Louis Pasteur Drive, #330  
San Antonio, TX 78229 USA  
Phone: 210-442-8625 ; 440-263-7461 (cell)  
Email: [aliev03@gmail.com](mailto:aliev03@gmail.com)

Web Links: [gallyinternational.com](http://gallyinternational.com)

**Editor in Chief:** Open Journal Psychiatry: <http://www.scirp.org/journal/ojpsych>

**Editor in Chief:** World Journal of Neuroscience: <http://www.scirp.org/journal/wjns>

**Editor in Chief:** Applied Cell Biology:

[http://www.tradescienceinc.com/index.php?option=com\\_content&view=article&id=2836&Itemid=200](http://www.tradescienceinc.com/index.php?option=com_content&view=article&id=2836&Itemid=200)

**Editor in Chief:** Journal of Aging Science:

[http://esciencecentral.org/editor/Gjumrakch\\_Aliev/](http://esciencecentral.org/editor/Gjumrakch_Aliev/)

**Co-Editor-in-Chief:** Central Nervous System Agents in Medicinal Chemistry (CNSA-MC). Formerly: Current Medicinal Chemistry - Anti-Cancer Agents

**Co-Editor-in-Chief:** Immunology, Endocrine & Metabolic Agents in Medicinal Chemistry (Formerly

'Current Medicinal Chemistry - Immunology

<http://bsp-cms.eurekaselect.com/index.php/cmciema>

**Co-Editor in Chief:** Recent Patents on CNS Drug Discovery

**Associate Editor:** CHAMC -"Cardiovascular & Hematological Agents in Medicinal Chemistry"

**Sectional-Editor (for Cardiovascular):** Current Pharmaceutical Biotechnology

<https://www.youtube.com/watch?v=jgE3WrnhZsk>

[https://yadi.sk/d/N7kC0\\_dK9WtZj](https://yadi.sk/d/N7kC0_dK9WtZj)

**2009- Present: Professor of Cardiovascular, Neuropathology, Gerontology, Health Science and Healthcare Administration.** Associate Director- Doctor of Science Program in Health Science and Healthcare

Administration. Member, International Advisory Council/Board, University of Atlanta Monograph Series.

Department: School of Health Science and Healthcare Administration

Address: University of Atlanta, E. Johns Crossing, Suite 175, Johns Creek, GA 30097, USA

Phone: 440-263-7461

Email: [cobalt55@gallyinternational.com](mailto:cobalt55@gallyinternational.com)

**2010- Present: The Chairman of the International Division of EuroEspes Biomedical Research Center in**

**La Coruna, Spain.**

**2015- Present: Leading Researcher (Full Professor) Institute of Physiologically Active Compounds**

**Russian Academy of Sciences, Chernogolovka, Russia**

### **Personal Information:**

**DATA OF BIRTH: September 01, 1958**

**CITIZENSHIP: USA**

**LANGUAGES: Fluent in: English, Italian, Spanish, French, Azeri, and Russian.**

### **EDUCATION:**

1975	High School Diploma with Cum Laude, Pysan, Nakhichevan High School, Azerbaijan (former USSR)
1982	M.D., Summa Cum Laude, Azerbaijan Medical Institute, USSR, General Medicine and Health Sciences, Baku, Azerbaijan (former USSR)
1982-1987	Postgraduate Student, Department of Electron Microscopy, Ivanovo Medical Institute and Department of Electron Microscopy and Cell Pathology of the Institute of Human Morphology, Moscow State University, and Russian Cardiology Research Center, Russia, (former USSR)
1989	Ph.D., Summa Cum Laude, Cardiovascular Biology and Pathology, Neuroscience: Moscow State University, Moscow, Russia (former USSR) Ivanovo Medical Institute, Ivanovo, Russia (former USSR) Institute of Human Morphology, Russian Academy of Medical Sciences, Moscow, Russia (former USSR) Russian Cardiology Center, Moscow, Russia (former USSR) Title of Ph.D. Thesis: The Ultrastructural and Functional Analysis of Vessel Endothelium after Ischemia and Reperfusion and Possible Pharmacological Interventions. Academic Jury Committee: Institute of Human Morphology Russian Academy of Medical Sciences, Moscow State University, Second Moscow Medical University after named Pirogov, Moscow and Ivanovo Medical Institute after named Bubnov, Ivanovo Russia. Ph.D. Advisor. Professor Alexander Alexandrovich Mironov, MD&PhD, D.Sc.

### **ACADEMIC POSITIONS:**

1987-1989	Junior Research Scientist, Laboratory of Electron Microscopy, Ivanovo State Medical Institute, Ivanovo, Russia (former USSR)
1989-1992	Senior Research Scientist, Laboratory of Electron Microscopy, Ivanovo Medical Institute, Ivanovo, Russia (former USSR)
1990- 1992	Research Fellow, Department of Vascular Biology, FIDIA Research Lab, Abano Terme Italy
1991, 1993	Research Fellow, Institute of Pharmacology, University of Padua, Padua, Italy
1992-1993	Head of Section of Endothelial Cell Biology Laboratory, Research Center of Electron Microscopy and Experimental Angiology, Ivanovo State Medical Institute, Russia (former USSR)
1993-1995	British Heart Foundation Research Fellow, Department of Anatomy and

- Developmental Biology, University College London, London, United Kingdom.  
Grant from British Heart Foundation: "Localization of Nitric Oxide Synthase and other Vasoactive Substances in Endothelial Cells of Atherosclerotic Vessels" (F/S 93024)
- 1996-1997 Visiting Professor, Department of Experimental Biology, Faculty of Sciences, University of Jaen, Spain
- 1997-1998 Research Fellows, The Cleveland Clinic Foundation Cleveland, Ohio, USA
- 1998-1999 Research Associate, Institute of Pathology, Case Western Reserve University, Cleveland, Ohio, USA
- 1999-2001 Research Associate, Department of Anatomy, Case Western Reserve University, Cleveland, Ohio, USA
- 2001-2006 Founder and Co-Director of Microscopy Research Center, Case Western Reserve University, Cleveland, Ohio, USA
- 2003-2006 Tenure-Track Assistant Professor of Pathology, Department of Pathology, Medicine, Case Western Reserve University, Cleveland, Ohio, USA
- 2004; 2005 Visiting Professor, University Health Sciences of Antigua, School of Medicine, St. John's, Antigua
- 2005- Present: Senior Research Scientist Stress Relief and Memory Training Center, Brooklyn, New York USA
- 2006-2009 Research Associate Professor of Cardiovascular and Neuropathology, Department of Biology, University of Texas at San Antonio, San Antonio, Texas, USA
- 2006-2009 Founder and Director, Electron Microscopy Research Center, University of Texas at San Antonio, San Antonio, Texas, USA
- 2009- **Present:** Professor, University of Atlanta, Atlanta, Georgia USA
- 2010- **Present:** President "GALLY" International Biomedical Research Consulting LLC, San Antonio, Texas, USA
- 2010- **Present:** The Chairman of the International Division of EuroEspes Biomedical Research Center in La Coruna, Spain.
- 2015- **Present:** Leading Researcher Institute of Physiologically Active Compounds Russian Academy of Sciences, Chernogolovka, Russia

**ADMINISTRATIVE DUTIES:**

- 2001-2006 Founder and Co-Director, Electron Microscopy Research Center, School of Medicine, Case Western Reserve University, Cleveland, OH USA
- 2006-2009 Founder and Director, Electron Microscopy Research Center, University of Texas at San Antonio, San Antonio, Texas, USA
- 2009- Associate Director of the Doctor of Science in Health Science and Healthcare Administration Program, University of Atlanta, Atlanta, Georgia USA

**VISITING SCIENTIST:**

- 1989-1990 Laboratory of Atherosclerosis Research, Russian National Academy of Medical Sciences, Moscow, Russia
- 1990-1992 Department of Vascular Biology, FIDIA Research Lab, Abano Terme Italy
- 1991, 1993 Institute of Pharmacology, University of Padua, Padua, Italy
- 1995- Department of Cell Biology and Oncology, Consorzio Mario Negri Sud, Chieti, Italy
- 1997- Autonomic Neuroscience Institute and Royal free Hospital of London and University College of London

2002- Department of Biochemistry of the University of California, Berkeley and  
Oakland Children Research Institute, Berkeley, California  
2007- Institute for Brain Research, A.I. Virtanen Institute, University of Kuopio,  
Finland  
2008- 2009 Professor of Biochemistry and Nutrition, Department of Nutrition and  
Biochemistry, University of Javeriana, Colombia

### SCIENTIFIC INTERESTS:

Cell Biology and Functional Morphology of Cell and Tissues: Endothelial cells, Smooth Muscle Cells; Neurons and as well as Glial and Macrophages Cells;

Specific characteristics changes of cell morphology in different functional states; particularly atherogenesis, vascular remodeling, hypertension, ischemia/reperfusion, tumor angiogenesis, signal transduction and mitochondria DNA deletion and/or overproliferation during cancer growth, metastases and Alzheimer diseases;

Regulation mechanisms of specific nitric oxide synthase (NOS) expression in endothelial and smooth muscle cells and macrophages *in vivo* and *in vitro*;

Role of NO in the pathogenesis of oxidative stress;

Role of Caveolin and its localization in the production of NO in different diseases conditions;

Study of therapeutic role of NO-donor and NO suppressors and ET receptor antagonists in different vascular diseases such as atherosclerosis, vascular remodeling, ischemia/reperfusion and tumor angiogenesis;

Study of the cellular and subcellular mechanisms of damage of pyramidal neurons and vascular wall cells during the development of Alzheimer's disease and the future new wave of treatment for these diseases.

Design and Monitoring Clinical study: Stress relief and memory training in conjunction with selective natural antioxidants as an alternate method for treatment of age associated mental retardation and depression.

### MAIN SCIENTIFIC EXPERTISE:

My main scientific expertise is in the cellular, subcellular, functional and biochemical assessment of the vascular wall and other tissues (including Central and Peripheral Nervous System) and in the following techniques:

1. *Direct and In-direct In situ* Hybridization at the light and electron microscopy.
2. Cry-Electron Microscopy.
3. PCR.
4. Enzymatic Assays including ELISA.
5. Western Blotting.
6. Cell Transfection.
7. qRT-PCR.
8. *In vivo* and *In vitro* Pharmacology.
9. Mass Spectrometry.
10. Protein Chemistry.
11. Pre-Embedding Immunoelectron Microscopy Peroxidase-anti-Peroxidase (PAP) and Avidin-Biotin (ABC) Cytochemistry techniques.
12. Post-Embedding Immunoelectron Microscopy Single, Double and Triple Gold Labeling techniques.
13. Light Microscopy Single and Double Immuno- fluorescent methods.
14. Light and EM Histochemical techniques, including NADPH-Diaphoreses Histochemical techniques in light and EM levels.

15. Single and Double labeling Laser Confocal Microscopy techniques.
16. Different modification of Light Microscopy (LM) and Transmission Electron Microscopy (TEM) techniques.
17. Scanning Electron Microscopy Native Specimens techniques.
18. TEM Ruthenium Red, Horseradish Peroxidase techniques.
19. LM, SEM and TEM Autoradiography methods.
20. SEM and TEM frozen-Fracture techniques.
21. SEM intraorgan and Intracellular Structure techniques.
22. SEM and TEM Detergent Extraction techniques.
23. LM, SEM and TEM Silver staining methods.
24. SEM plastic replica and corrosion casts preparation.
25. Light and EM Morphometric Measurements.
26. *In Situ* Hybridization at Light and EM levels (including non-isotopic techniques).
27. Quantification of Gold Particles and Image Analysis.
28. Small and Large laboratory Animal Surgery, including the Vascular and Nervous System Injury techniques.
29. Human tissue (biopsy and postmortem).
30. Tissue Culture Techniques.
31. Perfusion Fixation.
32. SEM and TEM plastic materials investigation including their interpretation.
33. SEM and TEM low vacuum techniques including natural and organic material investigations and interpretation.
34. Atomic Force Microscopy techniques.
35. Cryo-Electron Microscopy including three dimensional replica techniques.
36. TEM/SEM Low Vacuum and High Voltage Microscopy, X-ray Microscopy and element quantification.
37. Nanoparticles Conjugation and Drug Design.
38. Design and Monitoring Clinical study in conjunction with Bioinformatics methods.

#### **Present Scientific Focus and Interests:**

**Cell Biology, Biochemistry, and Functional Morphology of Cell and Tissues: Endothelial cells, Smooth Muscle Cells; Neurons and as well as Glial and Macrophages Cells;**

**Specific characteristic changes of cell biochemical properties and morphology in different functional states; particularly atherogenesis, vascular remodeling, hypertension, ischemia/reperfusion, tumor angiogenesis, signal transduction and mitochondria DNA deletion and/or overproliferation during cancer growth, metastases and Alzheimer's diseases;**

**Regulation biochemical mechanisms of specific nitric oxide synthase (NOS) expression in endothelial and smooth muscle cells and macrophages in vivo and in vitro;**

**At the present time, my lab is investigating the cellular and subcellular ultrastructural and molecular mechanisms of the features in the changes of mitochondria (DNA deletion, Cytochrome C Oxidase activity, redox activity (Fe), as well as protein modification and oxidation (HNE) and RNA (8HOG) oxidation during normal aging, atherosclerosis, tumor angiogenesis, stroke, human AD and transgenic mouse models of AD by using molecular biology and functional and structural methods (e.g., *in situ* hybridization and immunocytochemistry techniques at the light and electron microscopic levels). In addition, the biochemical properties of these protein activities will also be considered for our future studies.**

**One of our newer research interests focuses on investigating the interaction of**

**nanoparticles with tissues and cells. We have recently developed ways to determine the biological effects of nanoparticles in vivo and in vitro by utilizing animal models of human diseases. Our goal is to not only elucidate the pathogenic mechanisms underlying the nanoparticles' effects, but to also discover potential new drug development strategies. For example, our ongoing "In vitro Cancer Cell Line as a Model for the Peptide based new Drug Development" study has so far showed promising results regarding the specific delivery of drugs to tumor tissues. In another of our in vivo studies, we have found that nanoparticles are able to cross the blood brain barrier (BBB), which has been the biggest impediment in delivering drugs to patients with Alzheimer's disease. We are using classical biochemistry, cell biology, and morphology techniques in conjunction with more modern methods, such as SEM/TEM SED X-ray elemental analysis and NMR studies of protein structure and dynamics, macromolecular interactions, mechanistic enzymology, and computational analyses and modeling, in order to determine the exact nature of the relationship between the nanoparticles and the underlying tissue.**

**Clinical Project: Design and Monitoring Clinical study: Stress relief and memory training in conjunction with selective natural antioxidants as an alternate method for treatment of age associated mental retardation and depression.**

**Collaborators:**

Now I am investigating the features of the development of the cancer (experimental and in vivo models) as well as cerebral athero- and arteriosclerosis that result in AD during normal aging, ischemia/reperfusion, in Yeast Artificial Chromosome (YAC) and ApoE mice, aging model of dogs, chronic hypoperfusion in a rat, mice, and human atherosclerosis and AD subjects in collaboration with:

Dr. Ramón Cacabelos M.D., Ph.D., D.M.Sc., Professor & Chairman. EuroEspes Biomedical Research Center Institute for CNS Disorders and Genomic Medicine EuroEspes Chair of Biotechnology and Genomics. Camilo José Cela University. Sta. Marta de Babío, s/n 15165 Bergondo, La Coruña, Spain

Dr. Valentin Bragin, MD &PhD. Stress Relief and Memory Training Center, Brooklyn, New York, USA.

Professor Jerzy Leszek, M.D, PhD. Department of Psychiatry, Wroclaw Medical University, Poland;

Dr. Elena A. Kosenko, PhD. Russian Academy of Sciences, Institute of Theoretical and Experimental Biophysics, Pushchino, Russia

Dr. Yury G. Kaminsky, PhD. Russian Academy of Sciences, Institute of Theoretical and Experimental Biophysics, Pushchino, Russia

Professor Resia Pretorius, PhD, (University of Pretoria, Faculty of Health Sciences, South Africa).

Professor Jaromír Horecký Slovak Medical University, Surgical Pathophysiology and Tissue Engineering Center, Bratislava, Slovak Republic.

Dr. Olga Vancová, PhD. Pharmacobiochemical Laboratory, Comenius University School of Medicine, Bratislava, Slovak Republic

Doctor Stanislaw R. Burzynski, M.D., Ph.D. Burzynski Clinic, Houston, TX , USA

Professor V. Prakash Reddy, Ph.D. Associate Professor. Department of Chemistry, Missouri University of Science and Technology. Missouri, USA.

Dr. Arturo Solís Herrera, MD., PhD. Dirección de Investigación y desarrollo. Centro de Estudios de la Fotosíntesis Humana. S.C. Aguascalientes, Mexico.

Dr. Sergey G. Klochkov, PhD. Russian Academy of Sciences, Institute of Physiological Active Compounds. Chernogolovka, Moscow region, Russia.

Dr. E. Shevtsova, PhD. Russian Academy of Sciences, Institute of Physiological Active Compounds. Chernogolovka, Moscow region, Russia.

Dr. Sergey O. Bachurin, PhD, D.Sc. Russian Academy of Sciences, Institute of Physiological

Active Compounds. Chernogolovka, Moscow region, Russia.

Dr. Mohammad A. Kamal, PhD. Metabolomics and Enzymology Unit, Fundamental and Applied Biology, King Fahd Medical Research Center, King Abdulaziz University, Saudi Arabia.

Dr. Ghulam Md Ashraf, PhD., Assistant Professor, King Abdulaziz University, Saudi Arabia.

Nikolay N. Yakhno, MD&PhD Department of Neurological Disorders, First Moscow State Medical University, Moscow, Russian Federation

Dr. Vladimir Chubarev, PhD First Moscow State Medical University, Moscow, Russian Federation

Dr. Ludis Del Rosario Morales Alvarez, PhD., Department of Biochemistry and Nutrition, Pontificia Universidad Javeriana, Bogota, Colombia

Dr. George E. Barreto, M.S., PhD., Department of Biochemistry and Nutrition, Pontificia Universidad Javeriana, Bogota, Colombia

Dr. Yi Li, Ph.D. Department of Human Sciences, Texas A&M University-Kingsville, TX, USA

Dr. Marco G. Alves, PhD, Health Sciences Research Centre (CICS-UBI)

Faculty of Health Sciences, University of Beira Interior, Covilhã, Portugal

Dr. Vijendra Mishra, PhD, National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Sonapat, Haryana, India

Nagendra Sastry Yarla, PhD, GITAM University, Vishakhapatnam, Andhra Pradesh, India

Our future studies involve the possible accelerated effects of chronic hypoxia or other age-associated factors that probably play a key role in the mitochondrial pathobiology and therefore the development of age-associated diseases such as atherosclerosis, cancer, stroke and neurodegeneration. Selective mitochondrial antioxidants (Lipoic acid, L-Carnitine, etc.), cardiovascular drugs, NOS inhibitors, NO Donor and Endothelin-1 receptor antagonists and nanoparticles based cancer drugs will also be tested in different experimental models for potential clinical trials of these compounds as an alternative prophylactic and treatment strategy for neurodegeneration, cancer, cardio- and cerebrovascular diseases.

**Clinical Project: Principal Investigator for the Design and Monitoring of Clinical study: Stress relief and memory training in conjunction with selective natural antioxidants as an alternate method for treatment of age associated mental retardation and depression. Implication of new AD vaccine into the clinical trials.**

**Clinical project; Implication of the QIAPI-1 in the human diseases.**

**Supervision of Ph.D. and M.S. Students:**

1. Bedyayev E. "The Effect of Hemodynamic Tension on the Ultrastructure of Aortic Endothelium in Different Vessels. Electron Microscopic Qualitative and Quantitative Studies". Ivanovo Medical Institute, Ivanovo Medical Institute (Russia), 1992.
2. Mironov A. (Jr.). "Morphological Mechanisms of the development of Atherosclerotic Lesions in Different Hemodynamic Regions in Watanabe Heritable Hyperlipidemic Rabbits (Coronary Artery and Thoracic Aorta)". Ph.D. Thesis: Ivanovo Medical Academy, Ivanovo and Moscow Medical University (Russia), 1996.
3. Gurkin S. "Ultrastructure of Vascular Wall After a Small and Large Size of Cryodestruction in a Genetic Model of Atherosclerosis (Watanabe Heritable Hyperlipidemic Rabbits). The Possibility of Pharmacological Prevention: Electron Microscopic Studies". Ph.D. Thesis: Ivanovo Medical Academy, Ivanovo (Russia), 1996.
4. Arun K. Raina, Ph.D, Department of Pathology, CWRU. As an advisor, I worked with Arun in 2000-2003. This relationship has been a great success and we have published several papers in highly ranking journals (for lists of published papers please see below). He graduated May 2003.
5. Mark A. Obrenovich, Graduate Student, Department of Pathology, CWRU. As an advisor, I have been working with Mark since 2003 and we have had great success from this collaboration. We have published several papers in peer-reviewed international and national journals (for detail please see publication list). He graduated in April 2008.

6. Mr. Justin C. Shenk, B.S., Department of Biology, UTSA. I have trained Mr. Shenk in the following research project: The mitochondrial as a primary target for the development of age-associated neurodegenerative diseases. He graduated in July 2008.
7. Mr. Gerardo Pacheco, B.S., Master Student, Department of Biology, UTSA. The title of Thesis: The role of aged associated oxidative stress as an initiator of the mitochondrial abnormality as a primary target for the development of AD-like pathology in transgenic animals that mimics human AD. Graduated in 07. 2009.

#### **Research Postdoctoral and Clinical Training Activity (2003-Present):**

1. Postdoctoral Fellow: Dilara Seyidova, M.D. Research Associate; Department of Pathology). Dr. Seyidova is working under my supervision as a Postdoctoral Research Associate. I have trained her in different methods of modern electron microscopy to provide high quality service for our collaborators and clients who we are serving.
2. Postdoctoral Fellow: Mariana Rosca, MD (Department of Nephrology and Medicine). I have trained Dr. Rosca in the topic implication of Electron Microscopy for study of kidney mitochondria damage in different experimental conditions (diabetic model of transgenic mice).
3. Dr. Richard F. Silver, M.D. Assistant Professor of Medicine, Divisions of Pulmonary and Critical Care Medicine and Infectious Diseases, CWRU School of Medicine. I have trained Dr. Silver for application of electron microscopy to the study of bronchial salvage for use as diagnostic criteria for the verification of tuberculosis.
4. Dr. Ali Aliyev, M.D., Ph.D., Research Associate, Microscopy Research Center, Institute of Pathology, CWRU. I have trained Dr. Aliyev to conduct a research project entitled "The role of Mitochondria Abnormality in the pathogenesis of Cardio- and Cerebrovascular Diseases" by using modern techniques such as *in situ* hybridization with immunogold labeling at the electron microscopy level.
5. Dr. Nizami Rzayev, M.D., Ph.D. Research Associate, Microscopy Research Center, Institute of Pathology, CWRU. I have trained Dr. Rzayev to conduct research entitled "The role of Endothelin Abnormality which appears to be a main factor in the development of Cardio- and Cerebrovascular Diseases" by using modern techniques such as *in situ* hybridization and immunocytochemistry techniques with immunogold labeling at the light and electron microscopy level. In addition, I have trained him in biochemical properties and functional features of the development of animal model of atherosclerosis.
6. Dr. Andra Mardale, M.D., Postdoctoral Fellow, Department of Pathology, CWRU. I have trained Dr. Mardale in the following research project topics: Experimental Autoimmune Encephalomyelitis and a Mouse Model of Multiple Sclerosis. My goal is to train her for assessing demyelination in the central nervous system of transgenic mice using modern electron microscopic techniques.
7. Mr. Justin C. Shenk, B.S., Research Associate, Department of Biology, UTSA. I have trained Mr. Shenk in the following research project: The role of mitochondrial abnormality as a primary target for the development of age-associated neurodegenerative diseases, especially in animal models.

#### **Graduate and Postgraduate Student Advisor Activity (2006-Present).**

1. Ms. Celia Cobb, B.S., Master Student, Department of Biology, UTSA. The title of Thesis: The role of vascular oxidative stress as a primary target for the development of Alzheimer's disease.
2. Mr. Hector Palacios, Undergraduate Student, Department of Biology, UTSA. The title of project: The role of oxidative stress induced mitochondrial failure as a primary target for the development of Cerebrovascular and Neurodegenerative diseases.



3. Mrs. Brianna Walrafen, Department of Biology, UTSA. The title of project: The role of oxidative stress induced vascular hypoperfusion as a primary pathogenic factor for the development of Cardiovascular, Cerebrovascular and Neurodegenerative diseases.
4. Ms. Amanda Lipsitt, Department of Medicine, Division of Infectious Diseases, University of Texas Health Science Center at San Antonio, Texas, USA. The title of project: Mitochondrial failure and oxidative stress induced vascular hypoperfusion as a primary target for the development of Neurodegenerative diseases: Clinical and Experimental Study.
5. Mr. Andres Aguirre. Department of Biology, UTSA. The title of project: The selective mitochondrial natural antioxidants as an alternate method for treatment of age associated mental retardation and depression.

#### **SOCIETY MEMBERSHIPS:**

1. American Association for the Advancement of Science.
2. Society for Neuroscience.
3. International Society of Pharmacogenomics.
4. American Association of Neuropathologist.
5. Alzheimer Research Forum
6. Royal Society of Medicine, England
7. World Association of Neurotechnology.
8. Science Advisory Board
9. Microscopy Society of Northeastern Ohio, Inc., USA.
10. Honorary Research Board of the American Biographical Institute.
11. Honorary Member of the International Biographical Centre, Cambridge, England.
12. Italian Society of Electron Microscopy.
13. Microscopy Society of America.
14. New York Academy of Sciences.
15. Russian Society of Microvascular Research.
16. Russian Regional Society for Study of Atherosclerosis and Peripheral Vascular Diseases.
17. Russian Society of Electron Microscopy.
18. Russian Society of Atherosclerosis Investigation.
19. Russian Society of Anatomy, Histology and Embryology.

#### **MEETINGS/CONFERENCES:**

##### **Invited Lectures/Seminars/Master Classes:**

1. Department of Pharmacology, University of Padua, Italy. "The Damaging Role of Endothelial Cells on the Pathogenesis of Atherosclerosis", 1991
2. Department of Pharmacology, Faculty of Pharmacy, University Of Rennes, France. "Morphology of Vascular Wall in the Pathogenesis of Different Vascular Diseases", 1991
3. Department of Pharmacology, University of Padova, Italy. "Cellular Morphology of Endothelial Cells in Different Animal Model of Atherosclerosis", 1992
4. Institute of Pharmacological Sciences, University of Milan, Italy. "Morphological Features of the Vascular Wall in Different Model of Vascular Diseases: Implications in Pharmacological Prevention", 1992
5. Department of Pharmacology, University of Padova. Italy. "Pathobiology of Endothelial Cells: Morphological Aspects", 1993
6. Department of Pharmacology, University of Florence, Italy. "Scanning Electron Microscopic Characteristics of Endothelial Cells Morphology in Vitro: Possibility of Pharmacological

Interventions", 1993

7. Department of Anatomy and Developmental Biology, University College London, United Kingdom. "Distribution of NOS and ET-1 in the Pathobiology of Endothelial Cells: An Immunoelectron Microscopic Study", 1994
8. Institute for Atherosclerosis Research, Russian Academy of Natural Sciences, Moscow Russia. "Role of NOSs in the Pathobiology of Atherosclerosis", 1996
9. Department of Experimental Biology, University of Jaen, Spain. "The role of NOSs and ET-1 in the Pathobiology of Atherosclerosis: An Immunoelectron Microscopic Qualitative and Quantitative Studies", 1997
10. The Cleveland Clinic Foundation, Cleveland, USA. "Is the Balance Between Different Isoforms of NOSs and ET-1 in Endothelial Cells a Hallmark for the Development of Atherosclerosis? An Immunoelectron Microscopic Study", 1998
11. 10<sup>th</sup> Gordon Research Conference: Oxygen Radicals in Biology. Venture, California, USA. Poster and Selected Platform Presentation: "Is the Balance Between Different Isoforms of NOSs and ET-1 in Vascular Wall Cells A Hallmark for the Development of Atherosclerosis?", 1998
12. The Cleveland Clinic Foundation, Cleveland, USA. "Is the Balance Between Different Isoforms of NOSs and ET-1 in Endothelial Cells a Hallmark for the Development of Different Vascular Diseases? An Immunoelectron Microscopic Study", 1998
13. University of Colorado, Denver, USA. "The Role of Different Isoforms of NOS and ET-1 in the Pathobiology of Atherosclerosis", 1998
14. University of California, San Diego, and Veterans Affairs Medical Center, San Diego, California, USA. "The Ultrastructural Studies the Role of Endothelium in Different Animal Model of Ischemia/Reperfusion and Possible Pharmacological Interventions", 1998
15. Department of Anatomy and Neuroscience. CWRU. "Does the Mitochondrial Abnormalities Mark Vulnerable Neurons in Alzheimer Disease?", 1999
16. Penn State College of Medicine, Weis Center for Research. "The Role of Nitric oxide Synthase and Endothelin-1 in the Pathobiology of Cardiovascular Diseases", 1999
17. University Hospital, Alzheimer's Center, Case Western Reserve University. "Is Vascular Abnormality and Mitochondrial Failure the Key Factor for the development of Alzheimer's Disease? Recent Advances in transgenic mice", 2000
18. The Cleveland Clinic Foundation, Department of Neurosurgery Ground Lectures: "The role of mitochondria abnormality and vascular lesions in the pathogenesis of Alzheimer's diseases", 2000
19. University of California at Berkeley. The role of mitochondria abnormality as a key factor in the pathogenesis of Alzheimer's diseases and AD like Pathology in an aged Transgenic Mice Model of AD, 2002
20. Institute for Brain Aging & Dementia, University of California, Irvine, CA. The role of Mitochondria abnormalities in the Pathogenesis of Neurodegenerative diseases, 2002
21. University of Berkeley at California. "The potential preventive effect of mitochondria antioxidant in the pathogenesis of AD-like Pathology in an aged Transgenic Mice Model of AD", 2003
22. University of Louisiana, Department of Physiology and Neurosurgery. "The role of vascular abnormality in the pathogenesis of cerebrovascular and neurodegenerative diseases. Past, Present and Future", 2003
23. Azerbaijan Medical University, Baku, Azerbaijan. "Mitochondrial DNA Deletions as a Primary target for the development of Human Diseases: Implication to Cardiovascular and Neurodegenerative Diseases", 2003
24. University of Berkeley at California and Oakland Research Institute. "Does the mitochondrial DNA deletion as a key factor in the pathogenesis of Alzheimer's diseases and AD like Pathology in an aged Transgenic Mice Model of AD?: Recent Advance", 2004
25. Azerbaijan Medical University, Baku, Azerbaijan. "Mitochondrial DNA Abnormality and Deletions Induced by Hypoperfusion as a Primary reason for the development of Human

- Diseases: Implication to Cardiovascular and Neurodegenerative Diseases", 2004
26. University of Antigua, School of Medicine, Antigua West India. "The role of hypoperfusion induced vascular abnormality in the pathogenesis of cerebrovascular and neurodegenerative diseases", 2004
  27. University of Porto, Portugal (Lecture has been Re-scheduled from 2004). "Is Vascular Abnormality and Mitochondrial Failure the Key Factor of the development of AD?", 2005
  28. University of Coimbra, Portugal. "Oxidative Stress, Mitochondria Failure and Vascular Abnormality as a Key Target for the Cerebrovascular and Neurodegenerative Diseases: Past, Present, and Future", 2005
  29. Invited Plenary Lecture. International AD conference in Sorrento (March 2005 Italy). "Vascular nitric oxide is a critical molecule in spatial memory function during chronic brain hypoperfusion. Findings from an experimental model of MCI", 2005
  30. Invited Plenary Lectures: International 4<sup>th</sup> International Congress on Vascular Dementia. Porto, Portugal (October 2005). "Is Mitochondria are the critical substrate for Dementia? Past, Present and Future", 2005
  31. University of Southern Illinois, Carbondale. "Brain Hypoperfusion, Mitochondria Failure, Oxidative Stress, Aging and Alzheimer Disease: Recent Advance", 2006
  32. Philip Morris USA Health Science Research Center, Richmond, USA. "The Primary Pathogenetic Role of Vascular Content Vasoactive Substances, Hypoperfusion, Mitochondrial Failure and Oxidative Stress in Aging and Alzheimer's Disease", 2007
  33. Azerbaijan Medical University, Baku, Azerbaijan. "Does the Mitochondria as a Primary Target for the Drug Development? Past, Present and Future", 2007
  34. 5<sup>th</sup> International Congress on Vascular Dementia, Budapest, Hungary, "Preventative effect of mitochondrial antioxidants in ApoE deficiency mouse model of brain hypoperfusion", 2007
  35. Invited Lectures: Department of Neurological Sciences University of Milan, Ospedale Maggiore Policlinico, Milan, Italy. "The Role of Brain Hypoperfusion in the Pathogenesis of cerebrovascular and Neurodegenerative Diseases: Past Present and Future". November 12, 2007.
  36. Invited Lectures: University of Padova, Italy. "Is Alzheimer's Disease a Vascular Disorders with Neurological Consequences: A Lesson from the Past 100 Years"? November 14, 2007.
  37. Invited Lectures: Azerbaijan Medical University, Baku, Azerbaijan. Pathobiology of Alzheimer's Disease: A Lesson from the Past 100 Years. January 2008.
  38. Invited Lectures: "Is Alzheimer's Disease an Oxidative Stress Induced Mitochondrial Failure and Vascular Disorder with Neuropathological Consequences? Lessons from the Past 100 Years" Department for Transgene Technology and Gene Therapy VIB - KU Leuven, Belgium (April-May 2008).
  39. Invited Lectures: "Is Alzheimer's Disease an Oxidative Stress Induced Energy Failure and Vasculopathy with Neuropathological Consequences? Lessons from the Past 100 Years". Touro University-California, USA (April 02, 2008).
  40. Invited Lectures Series (5 Lectures): "Application of Electron Microscopy for Biology and Medicine". University of Javeriana, Colombia (May 10-19, 2008).
  41. Invited Lectures: Is Alzheimer's Disease an Oxidative Stress Induced Mitochondrial Failure and Cellular Hypoperfusion with Neuropathological Consequences? Lessons from the Past 100 Years". Institute of Advanced Scientific Investigations and High Technology Services, Panama, Republic of Panama (June 2, 2008).
  42. Invited Lectures: "Brain Hypoperfusion, Mitochondrial Failure, Oxidative Stress, Aging and Alzheimer's Disease: Recent Advance". Barshop Institute for Longevity and Aging Studies, University of Texas Health Science Center at San Antonio July 10, 2008.
  43. Special Invited Distinguish Faculty Plenary Lectures: Targeting Alzheimer's with Novel Therapeutics. World Pharmaceutical Congress. June 10-11, 2009; Philadelphia, PA, USA.
  44. Distinguished Faculty Lecture: "New Leadership of Personalized Medicine" In: BIT's 2nd Annual Congress and Expo of Molecular Diagnostics (CEMD-2009) November 19-21, 2009,

- Beijing, China Title of Speech: Oxidative Stress Induced Mitochondria DNA Overproliferation and/or Deletion as a Hallmark in Aged Associated Diseases: Can mitochondrial antioxidants be novel biological targets of treatment in neurodegenerative disorders?
45. Distinguished Faculty Lecture: "Cambridge Healthtech Institute's Inaugural The Sciences of Bio-Banking Lectures". November 16-17, 2009. Crowne Plaza Philadelphia, USA. Title of Speech: Nitric Oxide-Dependent Mitochondrial DNA Overproliferation and Deletion in the Pathogenesis of Tumor Growth: Implication of Nanoparticles for the Drug Delivering.
  46. Invited Lecture: Mitochondria as a Primary Target in the Development of Treatment Strategies for Alzheimer disease: Past, Present and Future. Medellin University, Colombia (August 01, 2009).
  47. Invited Lecture: Mitochondria as a Primary Target in the Development of Treatment Strategies for Neurodegenerative and Cerebrovascular Diseases: Past, Present and Future. Centro de Estudios de la Fotosíntesis Humana. S.C. Aguascalientes, Mexico (September 03, 2009).
  48. Invited Lecture: Can the Mitochondrial Antioxidants and Cardiovascular Drug be Novel Biological Targets in Prevention and Treatment of Alzheimer Patients? University of Alabama at Birmingham, AL USA (November 10, 2009).
  49. Invited Lecture: Alzheimer Disease: Vascular Oxidative Stress and Mitochondrial Failure. New Scents on the Trail? Institut für Pharmakologie und Klinische Pharmakologie, Universitäts klinikum Düsseldorf, and Department of Neurology/Psychiatry, Düsseldorf Germany (December 1, 2009).
  50. Invited Plenary Lecture. Alzheimer Disease: Oxidative Stress Induced Vascular Hypoperfusion and Brain Mitochondrial Failure. New Scents on the Trail? In: The 6<sup>th</sup> Congress of Polish Association of Psychogeriatrics (PTPG), Wroclaw, Poland (December 3, 2009).
  51. Invited Lecture: "Are Mitochondria critical substrates for Aging and Alzheimer disease? Past, Present and Future". Research Imaging Institute, The University of Texas Health Science Center at San Antonio, TX USA. March 12, 2010.
  52. Faculty Plenary Lecture: Prevention and Treatment of Cognitive Decline in Elderly Demented/Depressed Patients Using ApoE4 Tg+ Mice as a Model of Human AD by Feeding Acetyl-L-Carnitine, R- $\alpha$ -Lipoic Acid and QUIAPI-1. In: WC 2010, 8th Anti-Aging Medicine World Congress & MediSpa, April 8, 2010, Monte-Carlo - MONACO.
  53. Faculty Plenary Lecture: Are Mitochondria Key substrates for Aging and Alzheimer disease? The University of Plymouth, United Kingdom. May 25, 2010.
  54. Plenary Ground Lecture: Mitochondria as Primary Critical Homeostatic Substrates for Aging and Aged-Associated Diseases: Past, Present and Future". University of Autonomías' at Aguascalientes, Mexico, August 19, 2010.
  55. Plenary Ground Lecture: Mitochondrial Structural Changes, Brain Hypoperfusion, Oxidative Stress and Aging: Can Mitochondrial Antioxidants and Melanin Precursors are Novel Biological Targets of Treatment in Human Disorders? Recent Advance. University of Autonomías' at Aguascalientes, Mexico, August 20, 2010.
  56. Plenary Lecture: The Role of Nitric Oxide Dependent Mitochondria failure in the Development of Atherosclerosis, Brain Hypoperfusion and Dementia: Past, Present and Future. University of Autonomías' at Aguascalientes, Mexico, August 21, 2010.
  57. Plenary Lecture. In: XII Argentinean Congress on Neuropsychiatry and XIII meeting on Alzheimer's Disease Meeting: Oxidative Stress-induced Mitochondrial Failure, Cellular Hypoperfusion and Brain Hypometabolism Underlay the Pathophysiology of Alzheimer Disease and Offer New and Successful Targets for Treatment. Buenos Aires, Argentina, September 2, 2010.
  58. Invited Plenary Lecture. In: In: 80<sup>th</sup> Anniversary Congress of Azerbaijan Medical University. Oxidative Stress-induced Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Brain Hypometabolism Underlay the Pathophysiology of Cerebrovascular and Alzheimer Disease : Offer New and Successful Targets for the Drug

Delivering and Treatment, Baku, Azerbaijan October 6-8, 2010.

59. Invited plenary Lecture: Oxidative Stress-induced Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Brain Hypometabolism In the Context of Cerebrovascular and Alzheimer Disease : Offer New and Successful Targets for the Drug Delivering and Treatment. In: The 7<sup>th</sup> Congress of Polish Association of Psychogeriatry (PTPG), Wroclaw, Poland (December 2-3, 2010).
60. Invited Plenary Lecture: Targeting Oxidative Stress Induced Cellular Hypoperfusion and Brain Mitochondrial Failure as a Alternate Strategies for the Prevention and Treatment of Cognitive Decline in Elderly Demented/Depressed Patients: New Scents on the Trail?NeuroTalk-2010, Singapore, EXPO-Singapore.
61. Invited Plenary Lecture: Aged Associated Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Hypometabolism in the Context of Cardiovascular and Neurological Disorders which Can Be Used as a Alternate and Successful Drug Treatment Strategy: Past, Present and Future. In: 13<sup>th</sup> Argentinean Congress on Neuropsychiatry, "Biomarkers and Resilience in Neuropsychiatry", 9<sup>th</sup> Latin-American Congress on Neuropsychiatry and 14<sup>th</sup> Argentinean Meeting on Alzheimer's disease, Buenos Aires, Argentina. August 24- 26, 2011.
62. Invited Ground Lecture: Oxidative Stress Induced Cellular Hypoperfusion and Mitochondrial DNA deletion in the Context of Aging and Aged Associated Neurodegeneration: Past, Present and Future. Institute of the Theoretical and Experimental Biophysics of Russian Academy of Sciences (RAS), Pushino, Moscow District , Russia. November 15, 2011.
63. Invited Plenary Lecture: Oxidative Stress in Neurodegeneration and Cancer. In: Genomics and Pharmacogenomics of Prevalent Disorder, Introduction to the First World Guide Of Pharmacogenomic. 1st Meeting of the World Organization of Genomic Medicine, VI EuroEspes Annual Conference. EuroEspes Biomedical Research Center, Bergondo, Coruña/Corunna, Spain, December 17, 2011.
64. Invited Ground Lecture: Oxidative Stress Induced Mitochondrial Failure and Cellular Hypoperfusion as Primary Pathogenic Factors for the Development and Progression of Aged Associated Neurodegenerative Diseases. Institute of Physiologically Active Compounds (IPAC) of Russian Academy of Sciences (RAS). Zernogolovka, Moscow District, Russia. May 10, 2012.
65. Invited Ground Lecture: The Oxidative Stress Induced Mitochondrial Failure and Cellular Hypoperfusion in the Context of Alzheimer Disease: Past, Present and Future. Institute of Higher Nervous System Activity and Neurophysiology of the Russian Academy of Sciences . Moscow, Russia. November 12, 2012.
66. Invited Plenary Lecture. Oxidative Stress Induced Mitochondrial DNA Overproliferation and Deletion in Context of Neurodegeneration and Cancer: Past, Present and Future. In: 11<sup>th</sup> World Congress of Biological Psychiatry in Kyoto, 23 - 27 June 2013, Kyoto, Japan.
67. Invited Plenary Lecture. Oxidative Stress Induced Cellular Hypoperfusion, Mitochondrial

- DNA  
Overproliferation and Deletion in Context of Neurodegeneration and Cancer. In: IX congress,  
"Neuroscience for Medicine and Psychology", Sudak, Crimea, Ukraine, June 3-13, 2013.
68. Invited Plenary Lecture. Mitochondria Specific Antioxidants and their Derivatives in the Context of the  
Drug Development for Neurodegeneration and Cancer. In: 2<sup>nd</sup> International Conference  
on  
Medicinal Chemistry & Computer Aided Drug Designing October 15-17, 2013 Las Vegas, USA.
69. Invited Plenary Lecture. Aliev, G. Link Between Cancer and Alzheimer Disease via Oxidative Stress  
Induced by Nitric Oxide-Dependent Mitochondrial DNA Overproliferation and Deletion. In:  
"Targeting  
Mitochondrial Dysfunction & Toxicity" conference, Organized by Cambridge Healthtech  
Institute  
(March 19-20, 2014, Boston, MA, USA).
70. Invited Plenary Lecture. Mitochondrial Dependent Oxidative Stress Induced Cellular Hypoperfusion in  
Context of Neurodegeneration and Cancer Offers New and Successful Strategy for the  
Drug  
Development. In: 4<sup>th</sup> Pharmaceuticals & Novel Drug Delivery Systems, March 24-26,  
2014. Hilton, San  
Antonio Airport, USA.
71. 2013- The International Master Class Programs on Cardiovascular, Cerebrovascular,  
Neurodegenerative diseases, Cancer, Gerontology and Geriatrics Organized by the  
University of  
Atlanta, Georgia, USA and "GALLY" International Biomedical LLC, San Antonio, TX, USA,  
June 14-  
25, 2013, Astana, Kazakhstan.
72. 2013- The International Master Class Programs on Cardiovascular, Cerebrovascular,  
Neurodegenerative diseases, Cancer, Gerontology and Genomics Organized by the  
University of  
Atlanta, Georgia, USA and "GALLY" International Biomedical LLC, San Antonio, TX, USA,  
October,  
12-26, 2013, Almaty, Kazakhstan.
73. 2014- Modern Theory of Geriatrics and Gerontology: Diagnosis And Therapy Masterclass  
Containing  
60 Hours of Theory and Practice: At the Hospital of the Medical Center of the President's  
Affairs  
Administration of the Republic of Kazakhstan, Almaty, Kazakhstan. May 19 -23rd , 2014.
74. Sleeping Gene as a Modern Alternative Theory of Cardiovascular and Neurological  
Diseases, and  
Cancer. Why Genes are Sleeping? Tired or Lacking in Energy? Applications in the  
Differential  
Diagnosis and in the Treatment of the Aged Associated Diseases and Cancer. In : In: IV  
Baku,  
International Humanitarian Forum, Roundtable: Molecular Biology and Biotechnology in  
the 21<sup>st</sup>  
Century: Theory, Practice, Prospects., October, 2-3, 2014, Baku, Azerbaijan.
75. Mitochondrial DNA Overproliferation and Deletion as an Early Diagnostic Marker for the  
Carcinoid  
Tumor Growth and Metastasis. In Azerbaijan, Regional Symposia: Modern Diagnosis and  
Treatment  
Strategies for Metastatic Cancer. October 11, 2014, Gabala, Azerbaijan.

76. Mitochondrial Dependent Oxidative Stress Induced Cellular Hypoperfusion in Context of Neurodegeneration and Cancer Offers New and Successful Strategy for the Drug Development.. Invited Ground Lecture. In: School of Neuroinformatics and Computational Neuroscience 2014. October 26-28, 2014. Pontificia Universidad Javeriana, Bogota, Colombia.
77. Implication of Electron Microscopic Quantitative Criteria in the Context of the Drug Development for the Neurodegeneration and Cancer. .. Invited Ground Lecture. In: School of Neuroinformatics and Computational Neuroscience 2014. October 26-28, 2014. Pontificia Universidad Javeriana, Bogota, Colombia.
78. Invited Speakers: Title of Lecture; Mitochondrial Dependent Oxidative Stress Induced Cellular Hypoperfusion, Erythrocyte Metabolism, and Calcium Signaling in the Context of Neurodegeneration and Cancer: Recent Challenges. In: 2nd Russian Conference on Medicinal Chemistry and the 6th Russian-Korean Conference "Current Issues of Biologically Active Compound Chemistry and Biotechnology" Novosibirsk, Russia, July 5-10, 2015.  
<http://web.nioch.nsc.ru/medchem2015/index.php/invited-speakers>
79. Invited Renowned Speakers: RDS-1. Inaugural Reward Deficiency Syndrome Summit: November 16-18, 2015, San Francisco, CA, USA. Title of Presentation: The oxidative stress induced nitric oxide dependent mitochondrial DNA overproliferation and deletion in the context of the Cancer and Neurodegeneration: Recent Challenge  
<http://unitedscientificgroup.com/conferences/inaugural-reward-deficiency-syndrome-summit/speakers>
80. 2016- Neuropharmacology Keynote Speakers (Neuropharmacology 2016, 4<sup>th</sup> Global Experts Meeting on Neuropharmacology, September 15-17, 2016 at San Antonio, USA). Title: The oxidative stress initiated mitochondrial DNA overproliferation and deletion in the context of the Cancer and Neurodegeneration: Recent Challenge in Neuropharmacology.  
<http://neuro.pharmaceuticalconferences.com>,  
<http://neuro.pharmaceuticalconferences.com/scientific-program.php?day=2&sid=1256&date=2016-09-15>
81. Key Note Speech on: 5<sup>th</sup> International Conference and Exhibition on Pharmacology and Ethnopharmacology. Title: Conjugates of -Carbolines and Phenothiazine as new selective inhibitors of butyrylcholinesterase and blockers of NMDA receptors for Alzheimer Dementia. Mar 27-29, 2017 Orlando, USA <http://ethnopharmacology.pharmaceuticalconferences.com>

#### **Meeting Session Organizer:**

- |      |  |
|------|--|
| 2002 | Chair of Section: Oxidation and Inflammation in Alzheimer's disease. 32nd Annual Meeting of Society for Neuroscience, Orlando, Florida, November, 2002.  |
| 2003 | Organize Committee Member, The First Congress of International Society for Vascular Behavioral and Cognitive Disorders (Goteborg, Sweden, August, 2003). |
| 2003 | Plenary Lectures In: The Third International Congress on Vascular Dementia (Prague, Czech Republic, October 23-26, 2003). Aliev, M.A. Smith, and G.      |

- Perry. Pathobiology of Brain Microcirculatory Systems during the Development of AD: Past, Present and Future.
- 2003 Chairperson for Neuroscience Society Annual Meeting: New Orleans, November 8-12, 2003: Session Title and number: Alzheimer's disease: Experimental Model and Pathogenesis, #877.
- 2003 Opening Plenary Lectures: In: "XI International Symposium on New frontiers of Neurochemistry and Neurophysics on Diagnosis and treatment of Neurological Disease. (Martin, Slovak Republic, December 4-7, 2003): The title of Presentation: Hypoperfusion, Mitochondria Failure, Oxidative Stress and Alzheimer Disease.
- 2003 Chairperson in 3<sup>rd</sup> International Conference on Geriatric Psychoneuropharmacology, December 12-14, 2003, San Juan, Puerto Rico. The title of Session: Oxidative stress in neurodegenerative diseases: Cause or Consequence?
- 2003 Plenary Lectures in 3<sup>rd</sup> International Conference on Geriatric Psychoneuropharmacology, December 12-14, 2003, San Juan Puerto Rico. Vascular Hypoperfusion and Mitochondria Abnormality Induce Oxidative Stress as a Key Target for Alzheimer's Disease.
- 2003 Platform Presentation: In The Development and Strategies for News Cancer Drug. (San Diego, October, 2003). Increased expression of NOS and ET-1 immunoreactivity in human colorectal metastatic liver and brain tumor but not benign brain tumor is associated with selective depression of constitutive NOS immunoreactivity in vessel endothelium: New Target for the Drug Treatment.
- 2003 Platform Presentation: In Society Neuroscience Annual Meeting, New Orleans. Age-Associated Mitochondrial Decay: The Effects Of Mitochondrial Antioxidants/Metabolites.
- 2004 Plenary Lectures In: Second Scientific Conference: RESTAURACION NEUROLOGICA 2004". HAVANA CITY, FEBRUARY 24-27, 2004. The title of Lectures: Cerebrovascular Disease and Neurodegeneration: Missing Links.
- 2004 Chairperson In: Second Scientific Conference: RESTAURACION NEUROLOGICA 2004". HAVANA CITY, FEBRUARY 24-27, 2004. Title of Lecture: Oxidative Stress as a key factor or consequence of AD?
- 2004 Key Note Speakers for Seventh International Conference of Anti-Cancer Research, 25-30 October 2004, Corfu, Greece. Title of Lecture: The Role of Nitric Oxide and ET-1 in the Pathobiology of Cardiovascular Diseases, Tumors and Neurodegeneration: New Target for the Drug Treatment?
- 2006 Key Note Speaker and Chairperson for section: "Vascular Dementia" (Porto, Portugal, October 2005).
- 2007 Chairperson for section 5<sup>th</sup> Vascular Dementia 2007 (Budapest, Hungary).
- 2008 Key Note Speaker 2<sup>nd</sup> WFSBP Asia-Pacific Congress and 30<sup>th</sup> Annual Meeting of JSBP Toyama (Japan) Sept.11-13, 2008. : Biomarkers for early detection and differentiation of Dementia Disorders".
- 2009 Key Note Speaker. 9<sup>th</sup> International Conference AD/PD: Advance, Concepts and New Challenges. March 11-15, 2009. Prague, Czech Republic.
- 2009 Key Note Speaker In: The WPA International Congress "Treatments in Psychiatry. Title of Presentation: "Can mitochondrial antioxidants be novel biological targets of pharmacological treatment in age-associated neurodegenerative mental disorders? April 1-4, 2009, Florence, Italy.
- 2009 Chairman of Genetics Section: The WPA International Congress "Treatments in Psychiatry. April 1-4, 2009, Florence, Italy.
- 2010 Organizer (MIP-2010), France.



- 2012- Chair for the Session 4: Cellular and Molecular Neuroscience (Targets Meetings 1<sup>st</sup> World Neuroscience Online Conference, June 14, 2012.
- 2013- Organizer and Committee Member for the 11<sup>th</sup> World Congress of Biological Psychiatry in Kyoto, 23 - 27 June 2013, Japan.
- 2013- Organizer and Committee Member 2<sup>nd</sup> International Conference on Medicinal Chemistry & Computer Aided Drug Designing, October 15-17, 2013 Las Vegas, USA.
- 2014- Organizer and Committee Member: 4<sup>th</sup> Pharmaceuticals & Novel Drug Delivery Systems, March 24-26, 2014. Hilton, San Antonio Airport:  
<https://www.youtube.com/watch?v=jgE3WrnhZsk>
- 2014- TM's 3rd World Neuroscience Online Conference June 17-19, 2014.
- 2014- Organizer and Course Moderator for the International School of Neuroinformatics and Computational Neuroscience 2014. October 26-28, 2014. Pontificia Universidad Javeriana, Bogota, Colombia.
- 2016- Organize Committee Member and Conference Moderator for Drug Delivery 2016. 9<sup>th</sup> World Drug Delivery Summit , June 30-July 02, 2016, New Orleans, USA.
- 2016- Honorary member of the "Advisory Council": "IV World Congress on Geriatrics & Gerontology -2016", Bangalore, India: 23<sup>rd</sup>- 25<sup>th</sup> , November At J.N.Tata Auditorium, Indian Institute Of Sciences Bengaluru, India.
- 2016- Sessions Chair: Molecular Neuropharmacology | Clinical Neuropharmacology | Alzheimer's Disease and Dementia | Parkinson's Disease. 4<sup>th</sup> Global Experts Meeting on Neuropharmacology, September 14-16, 2016 San Antonio, USA
- 2017- Organizing Committee Member for 5<sup>th</sup> International Conference and Exhibition on Pharmacology and Ethnopharmacology, Mar 27-29, 2017 Orlando, USA:  
<http://ethnopharmacology.pharmaceuticalconferences.com/organizing-committee.php>  
<http://drugdelivery.pharmaceuticalconferences.com/speaker/2016/gjumrakch-aliev-gally-international-biomedical-research-consulting-llc-usa>
- 2017 Organizing Committee Member for Cell Science-2017: World Congress on Cell Science and Molecular Biology (Cell Science-2017: "To Develop and Explore Cell Science and Molecular Biology"), April 06-08, 2017, Dubai, UAE.

### HONORS AND AWARDS:

- 1976 Gold Medal on High School Graduation (Nakhichevan, USSR)
- 1978-1982 First Award at International and USSR Medical Students Conference and Congress (1978 and 1979 Moscow; 1980, Kaunas, Latvian Republic; 1981 Saratov Russia and 1982 Sank-Petersburg, Russia)
- 1982 Honor Diploma, Baku Medical Institute (Summa Cum Laude)
- 1986, 1988 Honor Diploma, USSR and Russian Congress of Anatomical Society (Vinnitsa, Ukraine; Sankt-Petersburg, Russia)
- 1989 Honor Diploma of Ph.D. Institute of Human Morphology, Moscow, (Summa Cum Laude)
- 1994 Upjohn Scientific Prize Awards in Italian Pharmacological Society, Torino, Italy
- 1999 Outstanding Scholars of the 20<sup>th</sup> Century Honor Diploma Cambridge, UK

- 1999 Honorary Research Board of Advisory of The American Biographical Institute
- 2002 Honorarium Diploma and Board Member who is why in Medicine and Health Care (Marquez Edition)
- 2002 George W. Bush Foundation Fellow
- 2003 Outstanding Leadership Honor Diploma of American Biographical Institute
- 2004 Honorarium Diploma and Board Member who is why in Medicine and Health Care (Marquez Edition)
- 2004 Commemorative Medal Man of the Year 2004 American Biographical Institute
- 2004 American Biographical Institute (ABI): ABI Nobel Laureate Plaque of Honor (2006) American Biographical Institute
- 2005-2008 Mahogany Wall Plaque of Who's Who in Medicine and Health Care (Marquez Edition)
- 2006-2007 Finish Academy Fellow, Finish Academy of Sciences
- 2008 "Who's Who in Healthcare" (2008/2009 Edition)
- 2008 UTSA Student Organization Consul Recognition Honor Advisor Diploma for playing a part in the Masterpiece to SCOPE: Journal of the College of Science, UTSA.
- 2008 Pontificia Universidad Javeriana, Facultad Ciencias Honor Diploma for the outstanding contribution (Lectures Series): Theory and Practice of Modern Electron Microscopy Application for Biology and Medicine, Bogota, Colombia.
- 2009 Travel Fellowship Alzheimer Association (12<sup>th</sup> International Conference on Alzheimer's Disease ICAD)) in Vienna, Austria, July 11-16, 2009.
- 2009 Who's Who in America
- 2012 Elsevier Top Reviewer Diploma
- 2013 CS Publishing Group Certificate of recognition for Worthy Keynote Presentation at the 4<sup>th</sup> International Conference and Exhibition on Pharmaceutical
- Pharmaceutics & Novel Drug Delivery System, (March 24-26, 2014 in Hilton San Antonio
- Airport, San Antonio, Texas, USA).
- 2014- OMICS Group Special Honor diploma in Appreciation of Esteemed Support as
- Editorial Board member for Drug Designing: Open Access (March 25, 2014, in Hilton
- San Antonio Airport, San Antonio, Texas, USA).
- 2014- Honor Diploma from the Pontificia Universidad Javeriana Facultad De
- Ciencias, Departamento De Nutricion Y Bioquimia, Bogota, Colombia, for the contribution "Curso
- De Neurobioinformatica (November 7, 2014).
- 2014- Honor Diploma from the Pontificia Universidad Javeriana Facultad De
- Ciencias, Departamento De Nutricion Y Bioquimia, Bogota, Colombia, for the contribution "Escuela
- De Neurociencia Computacional (November 8, 2014).
- 2015- Honor Diploma : Certificate of Recognition Conference Series LLC and the Editors of
- 2016- Neurochemistry & Neuropharmacology: Open Access: Journal of Neurological Disorders and Journal of Neurology and Neurophysiology for the phenomenal and worthy keynote presentation on The Oxidative Stress induced mitochondrial DNA overproliferation and deletion in the context of the cancer and neurodegeneration: Recent Challenge in neuropharmacology at the 4th

Global Experts Meeting on: Neuropharmacology held during September 14-16 in San Antonio, Texas, USA

## GRANT/RESEARCH SUPPORT:

### A: Current Active:

#### 1. Period 2009-2017.

Agency: Private Donor

Type of Grant: Research

Title: Mitochondrial damage as a hallmark in the context of human diseases.

The Annual Direct Cost \$NA.

Effort 100%

Role: P.I.: G. Aliev

#### 2. Period: 2006-2017.

Agency: Private Donor:

Type of Grant: Clinical Research

Title: Stress relief and memory training in conjunction with selective natural antioxidants as an alternate method for treatment of age associated mental retardation, depression and cancer.

The Annual Direct Cost \$100,000.

Effort 20%

Role: P.I.: G. Aliev ( in conjugation with Stress Relief Center, Brooklyn, NY, USA).

#### **3. Period 2016-2020 (Active)**

Russian Science Foundation

RSCF: № 14-23-00160. Development of Multitarget Drug for Alzheimer Disease.

Role: Co-P.I.: G. Aliev ( in conjugation with Institute of Physiological Active Compounds, Chernogolovka, Moscow Region, Russia)).

### A-1- Pending and Revised

#### 1. Period 01/2017- 31/2021

Agency; Skolkovo Foundation (Russian Skolkovo Innovation Center)

Type of Grant: Research

Title: Characterization and development of a platform for the evaluation of nicotine analogues in Parkinson 's disease.

Area of Technology Development: Biotechnology, Pharmaceutical

Area of Final Impact: Biotechnology, Pharmaceutical, Drug Developmental,

Neurodegeneration, Parkinson, treatment approach.

**The Annual Direct Cost: 700,000 (seven hundred thousand USD)**

Role: P.I.: G. Aliev. Effort 50%.

#### 2. Period 01/2017- 31/2022

Agency: Ministers of Science, Technology, and Innovation of Russian Federation with International Cooperation Foundation (Implementing Multilateral Research Projects)

Type of Grant: Research

Title: Unified Technology for the Evaluation of the Effectiveness of the supramolecular conjugates for the inhibition of the reverse cellular transport in Cancer and CNS Diseases.

Area of Technology Development: Biotechnology, Pharmaceutical, Pathology, Experimental Models,

Area of Final Impact: Biotechnology, Pharmaceutical, Drug Developmental, Drug Design, Diagnostic Tools, Neurodegeneration, Cancer, Effective treatment approach.

**The Annual Direct Cost: 1,500,000 (one million and five hundred thousand USD)**

Role: P.I.: G. Aliev. Effort 50%.

## 3. Period 01/01/2016- 12/31/ 2017

Agency: Brain Tumor Foundation

Type of Grant; Research

Title of Project: Evaluation of Mitochondrial DNA Overproliferation and Deletion as an Early Diagnostic Marker and Therapeutic Target for the Brain Tumor

The Annual Direct Cost: 90,000 USD

Role: P.I.: G. Aliev. Effort 50%.

**B: Recently Completed:**1. Period: 2006-December, 2008.

Agency: PH Pharmaceutical Inc.

Type of Grant: Research

Title: The Potential Therapeutical Effects of PXX-811 in a Rat Model of Chronic Brain Hypoperfusion.

The Annual Direct Cost: \$45,000.

Role: P.I.: G. Aliev. Effort 25%.

2. Period: June 30, 2002- June 30, 2008

Agency: The PM Research Management Group.

Type of Grant: Research (RO1).

Title: The Role of Oxidative Stress and Chronic Hypoxia in the Pathophysiology of Vascular Lesions in Transgenic Mice overexpressing of A $\beta$ .

The Annual Direct Cost: \$150,000. P.I. G. Aliev. Effort 50%.

3. Period: 2003-2006 (December, 31, 2006).

Agency: Alzheimer Association.

Type of Grant: Research.

Title: The role of Nitric Oxide in the development of mental retardation in a rat model of chronic hypoperfusion.

The Annual Direct Cost: \$80,000. Role: P.I.: G. Aliev (Co-P.I. J.C. de la Torre). Effort 25%.

4. Period: 2005-December, 31, 2006.

Agency: American Cancer Society/Cuyahoga Unit.

Type of Grant: Research.

Title: Nitric Oxide dependent Mitochondrial DNA Overproliferation and Deletion in the Pathogenesis of Tumor Growth.

The Annual Direct Cost: \$20,000.

Role: P.I.: G. Aliev. Effort 25%.

5. Period 2006-2007.

Agency: Finish Academy Sciences

Title: The role of hypoxia/reperfusion induced hypoperfusion in the pathogenesis of Alzheimer's disease

The Annual Direct Cost \$60,000 Role: P.I.: G. Aliev. Effort 20%.

6. Period 2006-2009

Agency: Electron Microscopy Research Center, UTSA

Type of Grant and Sources: Providing Electron Microscopy Scientific and Technical Expertise Services to UTSA and outside Researcher.

Role: P.I.: G. Aliev. Effort 50%.

**C: Pending:**1. Period 2016-2018

Agency: The Burzynski Research Institute

Type of Grant: Research Title of Proposal:

Title: Ultrastructural Localization and Molecular Identification and Characterization of Small Peptides in Brain Tissues.

The Total Cost \$250,000 Effort 50%  
 Role: Principal Investigator: G. Aliev.

**D: Resubmitting:**

1. Period 2016-2018

Agency: American Health Assistance Foundation (AHAF)  
 Type of Grant: Research  
 Title: Reducing Oxidative Stress via Vascular Drug Treatment in Atherosclerosis and Neurodegeneration.  
 The Annual Direct Cost \$125,000 Effort 15%  
 Role: Principal Investigator.: G. Aliev.

2. Period 2016-2018

Agency: Alzheimer's Drug Discovery Foundation (ADDF)  
 Type of Grant: Research  
 Title: The pre-clinical testing of Toxin Based Drug in animal models of AD.  
 The Annual Direct Cost \$125,000 Effort 10%  
 Role: Principal Investigator: G. Aliev.

3. Period: 2016-2019

Agency Institute for the Science and Health Independent Research Program RFA2007-A:  
 Type of Grant: RO1.  
 Title: ApoE deficient mice as a model for the study of the association between smoking, atherosclerosis and Alzheimer's disease  
 The Annual Direct Cost: \$150,000. Effort 45%.  
 Role: Principal Investigator: G. Aliev.

4. Period 2016-2019.

Agency: NIH  
 Type of Grant: Research (RO1)  
 Title: The role of Mitochondria Failure in the pathogenesis of Alzheimer's disease.  
 The Annual Direct Cost \$150,000. Effort 20%  
 Role: P.I.: G. Aliev.

5. Period 2016-2017.

Agency: Abbot Laboratories (USA)  
 Type of Grant: Research Grant  
 Title: Cardiovascular drugs as a treatment strategy for dietary cholesterol-induced Alzheimer pathology.  
 The Annual Direct Cost: \$150,000. Effort 10% .  
 Role: P.I.: G. Aliev.

6. Period: 2016-2018.

Agency: NIH  
 Type of Grant: R21  
 Title: Mitochondrial DNA Deletion, Neurodegeneration, Cell Death and Tumor Growth.  
 The Annual Direct Cost: \$125,000.  
 Role: P.I.: G. Aliev. Effort 25%.

7. Period 2016-2018

Agency: Alzheimer's Association  
 Type of Grant: Research (IIRG)  
 Title: The role of mitochondrial damage and metal ions dyshomeostasis in AD.  
 The Total Cost \$235, 000 Efforts 20%.  
 Role: Principal Investigator: G. Aliev

8. Period 2016-2018

Agency: Alzheimer's Association  
 Type of Grant: Research (Molecular Imaging in Alzheimer's Disease)  
 Title: Silver nanoparticles as alternate strategies for drug delivery to AD  
 The Total Cost \$325,000 Effort 50%  
 Role: Principal Investigator: G. Aliev

**E: Past Grants:**1. Period: 1989-1990.

Agency: Russian Higher Educational Council, Moscow, Russia.  
 Type of Grant: Research Fellowships.

2. Period: 1990-1992.

Agency: FIDIA Research Laboratories (Italy).  
 Type of Grant: Research.  
 Title: Pathobiology of Vascular Endothelium after the Ischemia/Reperfusion and in a different Animal Model of Atherogenesis: Possible Pharmacological Correction.  
 The annual direct cost: \$100,000.  
 Role: P.I. G. Aliev.

3. Period: 1992-1993.

Agency: Consoligo Nazionale Delle Recherché, Rome Italy (C.N.R.). Grant No AI 93.00197.04  
 Title: The Pharmacological and structural features of vascular endothelium during the development of Atherosclerosis in Watanabe Heritable Hyperlipidemic Rabbits.  
 The annual direct cost: \$35,000.  
 Role: P.I. G. Aliev.

4. Period: 1992-1995.

Agency: British Heart Foundation.  
 Type of Grant: Research (F/S 93024).  
 Title: Localization of NOS and other Vasoactive Substances in Endothelial Cells of Atherosclerotic Vessels".  
 The annual direct cost: \$100,000.  
 Role: P.I. G. Aliev.

5. Period: 1996-1997.

Agency: European Union Council (University of Jaen, Spain).  
 Type of Grant: Visiting Professorship.  
 Title: The Role of NO and ET-1 in the Pathophysiology of Liver Ischemia/Reperfusion". The annual direct cost \$75,000. Role: P.I. G. Aliev.

6. Period: 2000-2002.

Agency: Nickman Family Foundation.  
 Title: The Role of Vascular Abnormality in the Pathogenesis of Brain Lesions in a Transgenic Mouse Models of Alzheimer's Diseases  
 The annual direct cost: \$25,000. Role: Co-P.I. G. Aliev (P.I. R.P. Friedland).

7. Period: 2002-2003.

Agency: George W. Bush Foundation (Presidential Technology Development Grant Foundation).  
 Type of Grant: Research.  
 Title: The Labeling of brain amyloid depositions by using intranasally administrated SAP Component.  
 The direct cost \$50,000. Role: Co-P.I. G. Aliev (P.I. R.P. Friedland).

8. Period: 2002-2003.

Agency: University of Berkeley, California.  
 Type of Grant: Research.  
 Title: The role of mitochondrial dietary factor in the delaying of aging in a rat model.  
 The annual direct cost \$25,000. Role: P.I. G. Aliev.

**OTHER EXPERIENCE:****Grant Review and Admissions Committees (2000-Present):****National and International:**

- 2000-2007 Member and the Reviewer of the Peer Review External Research Program Committee for the Philips Morris, USA.
- 2000- Initial Reviewer of the Alzheimer's Association.
- 2003-2004 NIH. National Institute of Neurological Disorders and Strokes. Primary Reviewer of C Study Section.
- 2004- Primary Reviewer and Member: U.S. Civilian Research & Development Foundation (CRDF).
- 2004- Welcome Trust Primary Grant Review Panel Member, UK.
- 2004- Advisory Board Member of the Sacoor Medical Group, UK.
- 2004- Singapore National Health Institute Primary Grant Review Committee Member.
- 2006- NIH Study Section: Gene and Drug Delivery Systems [GDD] & Bioengineering Sciences and Tech.
- 2006- International Reviewer for Neuroscience, Stroke and Cancer Research: Catalan Agency for Health Technology Assessment and Research, Barcelona, Spain.
- 2006- The Comitato Telethon Fondazione ONLUS, (Italy).
- 2006- International Reviewers for the Spanish Ministry of Health- CIBER groups (Spain).
- 2006- The Agency for Science, Technology and Research's (A\*STAR) Biomedical Research Council (BMRC) in Singapore. A\*STAR.
- 2006- International Reviewer for CATCHA (Barcelona, Spain)
- 2007- American Federation for Aging Research, External Grant Reviewer.
- 2007- Defined Health Research, New Jersey, Grant Panel Reviewer, USA.
- 2007- Institute for the Study of Aging, NY USA: External Grant Panel Reviewer.
- 2007- Fondazione Italiana Sclerosi Multipla: International Grant Panel Reviewer.
- 2008- External Examiner for the PhD Program (Faculty of Health Sciences, University of Pretoria, South Africa).
- 2009- International External Reviewer for Czech Science Foundation.
- 2009- International Scientific Advisory Committee (The ISAC for WCNeuroTech).
- 2010- U.S. - Israel Binational Science Foundation (BSF).
- 2011- The South Plains Foundation (Lubbock, Texas, USA).
- 2011- South Africa's National Research Foundation (NRF).
- 2012- European Science Foundation
- 2016- External Examiner for the PhD Program (Faculty of Health Sciences, University of Pretoria, South Africa).
- 2016- External Examiner for the PhD Program (Institute of Science, GITAM University, Visakhapatnam, Andhra Pradesh, India).
- 2016- Member of Expert Committee: "Validation of the Comprehensive International Classification of Functioning, Disability and Health Core Set for Schizophrenia". University of Barcelona, Spain.
- 2016- The National Research Foundation (NRF): South Africa.

**University based:**

- 2003-2005 CWRU, School of Medicine, Institute of Pathology Karsner Grant Committee Member
- 2003-2006 CWRU, School of Medicine: Faculty Advisory for the Research Program in Aging (Cognitive diseases)

2004-2006 CWRU, School of Medicine: Ad-hoc Member of the Admission Committee  
 2004-2006 CWRU, School of Medicine: Biomedical Sciences Training Program (BSTP) Admission Committee Member  
 2006 Members of the Medical Student Lepow Research Review Committee, CWRU  
 2008- Special Member of the Graduate Faculty, UTSA  
 2009- Associate Director of the Doctor of Science in Health Science and Healthcare Administration Program, University of Atlanta, Atlanta, Georgia  
 USA

### **Editorships:**

**2002-2004 Associate Editors: Journal of Alzheimer's Disease**  
**2006- Editor (Neuroscience section): Central European Journal of Biology**  
**2007- Honorary Board Member: Vascular Health and Risk Management**  
**2007- Editorial Advisory Board Member: The Open Medicinal Chemistry Journal**  
**2007- Editor: Frontier in Bioscience (Neuroscience)**  
**2008- Honorary Editorial Board Member: Clinical Medicine: Pathology**  
**2009- Associate Editor: Cardiovascular Psychiatry and Neurology**  
**2009- Editorial Advisory Board Member: Immunology, Endocrine &**

### **Metabolic Agents**

**in Medicinal Chemistry (IEMAMC)**  
**2009- The Managing Editorial Board of the Frontiers in Bioscience**  
**2010- The Editorial Advisory Board (EAB): Current Aging Science**  
**2010 - The Honorary Editorial Board Member: Research and Reports in Biology**  
**2010- Associate Editor of Endocrinology Studies (Page Press)**  
**2010,2015- Guest Editor: CNS and Neurological Disorders- Drug Targets**  
**2011- Journal of Behavioral and Brain Science (JBBS)**  
**2011- The Scientific Advisory Board (SAB) of Scientia Pharmaceutica: <http://www.mdpi.com/journal/scipharm/editors>**  
**2011-2013 Editorial Advisory Board (EAB) of Current Alzheimer Research**  
**2011- Editor in Chief: World Journal of Neuroscience (WJNS)**  
**2011- Editor in Chief: Open Journal of Psychiatry (OJPsych)**  
**2012- Editor in Chief: Applied Cell Biology**  
**2011- The Webmed Central Advisory Board (United Kingdom)**  
**2012- Guest Editor: CNS Neurological Disorders and Drug Targets**  
**2012- Associate Editor: Oxidants and Antioxidants in Medical Science**  
**2007-2012 Editor-in-Chief: The Cell Development & Biology Open Journal**  
**2012-2013 Guest Editor, Journal of Biomedicine and Biotechnology (Alzheimer Disease Research Series)**  
**2013- Senior Editor: The Journal Interactive Medicinal Chemistry**  
**2013- Associate Editor: Journal of Nutritional Therapeutics**  
**2013- Guest Editor: Medicinal Plants in Management of Type 2 Diabetes & Neurodegenerative Disorders**  
**2014- Editorial Board of Frontiers in Aging Neuroscience as Review Editor.**  
**2014- Co-Editor-in-Chief, Central Nervous System Agents in Medicinal Chemistry (CNSA-MC)**  
**2014- Honorary Editor-In-Chief: International Journal of Neurology Research**  
**2015- Guest Editor: Special issue for CNS and Neurological Disorders - Drug Targets,**



entitled “Neurodegeneration, Metabolic Syndromes, Oxidative Stress, Drug Design and Development: Clinical Implications”:  
<http://benthamscience.com/journal-files/special-issue-details/CNSNDDT-SII20150309-2.pdf>

2017- **Guest Editor: Special issue for Current Pharmaceutical Design (CPD)- Metabolic Disorders, Cancer, Drug Development, Drug Design.**

<http://benthamscience.com/journal/index.php?journalID=cpd#top>

2015- **Guest Editor for Special issue: Current Genomics: Genomics and epigenomics of tumor aging cells.**

<http://benthamscience.com/journal-files/special-issue-details/CG-SII20150615-01.pdf>

2015- **Member of Scientific Advisory Board: Journal of Molecular Pathophysiology.**

**2016- Guest Editor for Special issue [Natural Products and Diabetes and NPDB],**

**Journal of Diabetes Research:**

<http://www.hindawi.com/journals/jdr/si/715632/cfp/>

**Editorial Boards:**

2002- Journal of Submicroscopic Cytology & Pathology  
 2002- Histology and Histopathology  
 2003-2010 Neurotoxicity Research  
 2003-2010 Health  
 2004-2009 In Vivo  
 2004- Microscopy Research and Techniques  
 2004- American Journal of Alzheimer’s disease and Other Dementia  
 2007-2010 Autophagy  
 2007- 2010 J. Neuroinflammation  
 2006-2012 Journal of Cellular and Molecular Medicine  
 2007- Scientific Journals International  
 2007- The Open Aging Journal  
 2007- International Journal of Medical Sciences  
 2007- Archives of Industrial Hygiene and Toxicology  
 2007- The Open Neuroscience Journal  
 2007- The Open Nitric Oxide Journal  
 2007- The Open Pathology Journal  
 2007- Therapeutic Advances in Cardiovascular Disease  
 2007- The Open Neurology Journal  
 2007- The Open Cell Developmental & Biology Journal  
 2008- Current Gerontology and Geriatrics Research  
 2008- CNS and Neurological Disorders- Drug Targets  
 2008- The Open Clinical Chemistry Journal  
 2008- Open Longevity Science  
 2008- Cardiovascular & Hematological Disorders-Drug Targets  
 2008- Clinical Medicine: Pathology  
 2008- EuroMednet  
 2009 Recent Patents on CNS Drug Discovery (RPCN)  
 2009- Immunology, Endocrine & Metabolic Agents In Medicinal Chemistry  
 2009- Recent Patents on Cardiovascular Drug Discovery (PRC)  
 2009- The Open Cancer Journal  
 2009- The Open Clinical Cancer Journal  
 2009- Current Genomics

2009- Current Aging Science  
 2009- Ageing International  
 2009 Research Journal of Biotechnology  
 2009 Biotechnology and Molecular Biology Reviews  
 2009- Expert Review of Molecular Diagnostics  
 2009- Polish J of Geriatric Psychiatry (Psychogeriatría Polska)  
 2009- Current Neurobiological Research  
 2010- Current Neurobiology  
 2010- Cardiovascular & Hematological Agents in Medicinal Chemistry  
 2010- International Journal of Clinical and Experimental Medicine  
 2010- Journal of Pediatric Biochemistry  
 2010- Journal of Cell and Animal Biology (JCAB)  
 2010- Journal of Medicinal Plants Research  
 2010- Journal of Experimental Stroke & Translational Medicine  
 2010- Journal of Cancer Research and Experimental Oncology  
 2010- Advances in Molecular Imaging (AMI)  
 2010- CNS and Neurological Disorders- Drug Targets  
 2011- Mental Illness (Page Press)  
 2011- International Journal for Biotechnology and Molecular Biology Research  
 2011- Open Journal of Biological Chemistry  
 2011- The Journal of Pharmacy and Pharmacology Research (JPPR)  
 2011- International Research Journal of Biochemistry and Bioinformatics  
 2011- Surgical Science  
 2011- Proceeding of the Ivanovo Medical Academy Sciences  
 2011- Clinical Reviews and Opinions (CRO)  
 2012- International Journal of Medicine and Molecular Medicine (IJMMM)  
 2012- Journal of Molecular Pathophysiology  
 2012- EuroPharmaGenics (EPG)  
 2012- Research Reports  
 2012- Journal of Neurodegenerative and Cerebrovascular Diseases (JNCD)  
 2012 American Journal of Neuroprotection and Neurogeneration  
 2012- Journal of Biomedicine and Biotechnology  
 2012- Modern Public Health (MPH)  
 2012- Journal of Nutritional Therapeutics  
 2012- Frontiers in Pathogenic Biology  
 2012- Journal of Aging Science  
 2013- Current Advances in Bioinformatics (CAB)  
 2013- Frontiers in Pathology and Genetics  
 2013- Interactive Medicinal Chemistry  
 2013- Drug Designing-Open Accessing  
 2013- Journal Frontiers in Pathogenic Biology  
 2013- Advances in Neuroscience Research  
 2013- Trends in Molecular Biology(TMB)  
 2013- Journal of Cardiology and Therapy  
 2013- Austin Journal of Psychiatry and Behavioral Sciences  
 2014- Journal of Neurology and Psychology  
 2014- Journal of Health Science  
 2014- Journal of Histology and Histopathology  
 2014- Journal of Neurocardiovascular Disease (NCVD)  
 2014- International Journal of Neurology Research (ISSN 2313-5611)  
 2015- **Editorial Board Member for Scientific Reports, Nature Publisher**  
 2015- Journal of Nuclear Medicine, Radiology & Radiation Therapy  
 2015- Recent Patents on CNS Drug Discovery  
 2015- Science Technology  
 2015- Journal of In Silico & In Vitro Pharmacology

**2015- International Journal of Brain Disorders and Treatment:**  
[http://clinmedlibrary.com/International-Journal-of-Brain-Disorders-and-Treatment/Brain-Disorders-and-Treatment\\_editorial\\_board.php](http://clinmedlibrary.com/International-Journal-of-Brain-Disorders-and-Treatment/Brain-Disorders-and-Treatment_editorial_board.php)

2015- European Journal of Medical Sciences

2015- MEDICAL RESEARCH ARCHIVES

2015- Current Pharmaceutical Biotechnology.

2015- Austin Biology.

2015- Biomedical Research and Clinical Practice (BRCP): [http://oatext.com/Biomedical-Research-and-Clinical-Practice-BRCP.php#Editorial Board](http://oatext.com/Biomedical-Research-and-Clinical-Practice-BRCP.php#Editorial_Board)

**2016-Journal of Genomic Medicine and Pharmacogenomics**  
<http://www.scitcentral.com/editorboard.php?journal=20>

### **Journal Reviewer:**

As a primary reviewer, I am serving a large number of internationally and nationally recognized journals in the field of cardiovascular, cancer and neurodegenerative diseases research fields: American J Alzheimer's Dis. & Other Dementia, Atherosclerosis, American J Gerontology, American J Geriatric Psychiatry, American J of Pathology, Amyloid, J. Clin Invest, Annals of Human Genetics, Antioxidants & Redox Signaling, Atherosclerosis, Brain Pathology, Brain Research, Central European J of Biology, Current Medicinal Chemistry, Laboratory Investigation, European J of Lipid Sciences and Technology, European J of Neuroscience, Experimental Neurology, Free Radical Biology and Medicine, Future Neurology, J Alzheimer's disease, International J of Biomedical Sciences, International J of Experimental Pathology, J Cellular Biochemistry, J Cerebral Blood Flow and Metabolism, J. Experimental Medicine, J Cellular and Molecular Medicine, J Neurochemistry, J Neurocytology, J Neuroendocrinology, J Neuroimmunology, J Neurological Research, J Neuropathol. & Exper. Neurol, J of Neuroscience, J Neuroscience Research, J Theoretical Biology, Microscopy Research and Techniques, Nature Medicine, Neurobiology of Aging, Neurobiology of Disease, Neuropharmacology, Neuroinflammation, Neuroscience, Neuroscience Letters, Neurotoxicity Research, Open Medicinal Chemistry J, Proceeding of the Indian National Science Academy, Arteriosclerosis, Thrombosis and Vascular Biology, Trends in Molecular Medicine, Molecular Medicine, Scientific Journals International, Neurology, Autophagy, Clinical Cardiology, Journal of the Biological Chemistry (JBC), Neurotoxicology, Current Alzheimer Res. Royal Society of Chemistry (RSC) Journal. PNAS USA, Histology & Histopathology, J Submicroscopic Cytol & Pathol. Oncology Research/Anti Cancer Drug Design, Progress in Neurobiology. Cardiovascular Medicine. Current Gerontology and Geriatrics Research, Nature Clinical Practice Cardiovascular Medicine. The Journal of Cardiovascular Pharmacology. CNS and Neurological Disorders- Drug Targets. Therapeutic Advances in Cardiovascular Diseases. The Open Infectious Diseases Journal. The Open Clinical Chemistry. Cardiovascular Psychiatry & Neurology. The International J. Biochemistry and Cell Biology. Molecular Nutrition and Food Research. J Neurological Sciences. Integrative Biology. Lab on a Chip. The Open Neurology Journal. Expert Review of Molecular Diagnostics. Immunology, Endocrine & Metabolic Agents in Medicinal Chemistry (IEMAMC). Polish J of Geriatric Psychiatry. EMBO Reports. Future Medicine: Expert Review of Neurotherapeutics. The Open Orthopedics Journal. Autism Research. Journal of Medicinal Plants Research. Current Immunology Reviews. Biotechnology and Molecular Biology Reviews. Neuroscience. Organic & Biomolecular Chemistry. International Journal for Biotechnology and Molecular Biology Research, Rejuvenation Research. European Journal of Pharmacology. Stem Cell Discovery (SCD). Open J. Psychiatry. Alzheimer's & Dementia. Future Medicine: Therapy. Journal of the American Aging Association, Pharmacological Reports. Nutrition Research. Current Gerontology,. Experimental Gerontology. Clinics and Practice. Molecular Nutrition and Food Research. Analyst. BMC Research Report. Journal of Natural Products. Neuroscience. Neurobiology of Aging. Journal of Food & Nutritional Disorders. International Neurochemistry. Frontiers in Pathology and Genetics. The Journal Interactive Medicinal Chemistry. Journal of Nutritional Therapeutics. Trends in Molecular Biology(TMB). Clinics and Practice (An International Journal of Medical Case Reports). Neuropharmacology. SCI Technology. Current Medicinal Chemistry. Letters in Drug Design & Discovery. Journal of Neuroscience Research. Experimental Gerontology. Herald Journal of Agriculture and Food Science Research. British Journal of Medicine and Medical Research.

Pharmacological Reports. Frontiers in Aging Neuroscience. BMC Neuroscience. Open Biochemistry Journal. Biomedical and Environmental Sciences. Central Nervous System Agents in Medicinal Chemistry. Advances in Therapy. Life Sciences. Neurology Research International. Scientific Report (Nature Publisher). PROTEOMICS - Clinical Applications. Pathophysiology. Free Radical Research. Molecular and Cellular Biochemistry. Experimental Cell Research. Journal of Clinical Medicine and Research. Oxidative Medicine and Cellular Longevity. Journal of Molecular Pathophysiology. The Journal of Investigative Medicine. Neurochemistry International. Mini-Reviews in Organic Chemistry. Current Genomics. Journal of Chemical Neuroanatomy. EMBO Molecular Medicine. Future Oncology. Progress in Neurobiology. International Journal of Mental Health Systems. Biochimie. Mini-Reviews in Organic Chemistry. Medical Journals. Life Sciences. EMBO Molecular Medicine. Molecular Neurobiology. Aging. Journal of Interprofessional Education & Practice. Alzheimer & Dementia. Molecular Basis of Disease.

#### **Advisor and Consultant Activity for Pharmaceutical and Biotechnology Companies:**

- 1990-1993 FIDIA Research, Italy
- 2003-208 Panacea Pharmaceutical Inc., MD, USA
- 2003- The Gerson Lehrman Group's Council of Healthcare Advisors., NY, USA
- 2004- The Sacoor Medical Group, United Kingdom
- 2006- Defined Health Research Inc. New Jersey, USA
- 2007- Network Advisory Group, NY, USA
- 2007- Scientific Advisory Board Member for International Pharmaceutical Industry Committee for the Alzheimer's disease Drug development Program (SACOR MEDICAL GROUP), United Kingdom
- 2008- Guidepoint Global, LLC, New York, NY, USA
- 2008- Round Table Group, Inc. Washington, DC, USA
- 2008- KOL Connection LTD, London, United Kingdom
- 2008- Coleman Research Group, New York, NY, USA
- 2009- Healthcare Advisory Board, Montreal Canada
- 2010- Honorary Consultant, EPS Global Medical Development Inc. Montreal, Quebec Canada
- 2011- Medefield, The Global Expert in Fieldwork Services, Canada
- 2014- Salthpeptides Advisory Board Member

#### **Services to the Community: Lectures:**

- 2000-2006 Cleveland Adult Day Care Geriatric Center. Prevention of Alzheimer's Disease: Lesson from the past 100 years.
- 2006-present San Antonio Health Sciences Geriatric Center. Diet as an Initiator of Cerebral Atherosclerosis and Vascular Dementia.

#### **Service to the Community: Information Sessions and National Press Releases:**

- 2007 University of Texas at San Antonio, Pre-Medical Society and Pre-Medical Honor Society, Alzheimer's disease research overview.
- 2008 Judge's for Medicine and Health Sciences Section of the 2008 Exxon Mobil Texas Science & Engineering Fair.
- 2008- San Antonio KENS-TV and Austin KVUE-TV Interview: New Discovery for Alzheimer's Disease Research

(<http://www.kvue.com/news/state/stories/063008kvuealzheimersresearch-cb.d9aba6c.html>

<http://www.mysanantonio.com/health/index.shtml> and click: **Medical video**

UTSA Science Prof. quoted in LA Times story: [juvenon is a widely advertised "anti-aging" supplement.](#)

Los Angeles Times - CA, USA

... agrees Dr. Gjumrakch Aliev, a Research Associate Professor of Cardiovascular and Neuropathology at the **University of Texas at San Antonio.** ...

**See all stories on this topic also: New stem cell research has been reported by scientists at University of Texas 09/29/2008** Copyright © 2008 Diabetes Week via NewsRx.com; Angiogenesis Weekly **10/03/2008: New stem cell research has been reported**

**by scientists at University of Texas** Copyright © 2008 Angiogenesis Weekly via NewsRx.com.  
**New stem cell research has been reported by scientists at University of Texas**  
**10/02/2008** Blood Weekly Copyright © 2008 Blood Weekly via NewsRx.com. **New stem cell**  
**research has been reported by scientists at University of Texas** **09/30/2008** Science  
 Letter. Copyright © 2008 Science Letter via NewsRx.com

[September 04, 2009: Interview with Newspaper: Hidro Calido \(Aguascalientes, México\): Otro Descubrimiento vs. Alzheimer \(Nuestro Estado, A-page 8\).](#)

[December 21, 2010: Master Classes: Human Diseases: Past, Present and Future.](#)

See also Latest News Regarding Our Research activities in Overseas:

[http://khabar.kz/rus/socium/Master-klass\\_dlja\\_kazahstanskih\\_vrachej\\_provel\\_kardiolog\\_iz\\_SShA.html#](http://khabar.kz/rus/socium/Master-klass_dlja_kazahstanskih_vrachej_provel_kardiolog_iz_SShA.html#)

<http://www.superhumanradio.com/>

**# 677 - Does Weightlifting Shorten Your Life? PLUS The Role of Antioxidants in Health, Disease and Aging** Wednesday, 02 March 2011 12:01 |

User Rating: / 4 PoorBest

Guest: Brooks Kubik; Dr. Mark Obrenovich & Dr. Aliev Gjumrakch

Weight-lifter's have died young. Some have lived long lives. Does weigh-lifting contribute to longevity? Or an early grave? PLUS Polyphenolic antioxidants are touted as effective as some pharmaceutical drugs at reversing disease. Is it true? And is there a down-side to taking anti-oxidants? Tune in and learn.

[http://www.superhumanradio.com/components/com\\_podcast/media/mp3s/SHR\\_Show\\_677.mp3](http://www.superhumanradio.com/components/com_podcast/media/mp3s/SHR_Show_677.mp3)

<http://www.elderbranch.com/blog/integrative-approach-preserve-cognition-dementia-patients/>

**Integrative Approach to Preserve Cognition in Dementia Patients**

**BY ELDERBRANCH TEAM ON NOVEMBER 13, 2013**

**What are the next steps in your work in this area?**

**We are currently designing longer-term studies where we will apply and test an integrative approach to dementia treatment.**

<https://www.youtube.com/watch?v=-dNLnKiYOBQ>

<https://www.youtube.com/watch?v=jgE3WrnhZsk>

[https://yadi.sk/d/N7kC0\\_dK9WtZj](https://yadi.sk/d/N7kC0_dK9WtZj)

[Astana Lecture Prof Aliev](#)

<https://www.youtube.com/watch?v=RVHxnnDH3pQ>

**PEER-REVIEWED JOURNAL ARTICLES & BOOK CHAPTERS:**

**See also:** <http://www.ncbi.nlm.nih.gov/pubmed/?term=aliev%20g>

[http://scholar.google.com/citations?user=a\\_TYBosAAAAJ&hl=en&oi=ao](http://scholar.google.com/citations?user=a_TYBosAAAAJ&hl=en&oi=ao)

(TOTAL: 290).

**Note: \* Indicates Hot Paper.**

**A: Neuroscience, Neurodegeneration, Vascular Dementia, Alzheimer Disease, Drug Development and Drug Design, Clinical Trials & Cancer Research Fields:**

1. Shi J., Perry G., **Aliev G.**, Smith M.A., Ashe K.H, and Friedland R.P. Serum amyloid P is not present in amyloid  $\beta$  deposits of a transgenic animal model. *NeuroReport* 10:3229-3232; 1999.
2. Nunomura A, Perry G, Hirai K, **Aliev G**, Takeda A, Chiba S, Smith MA. Neuronal RNA oxidation in Alzheimer's disease and Down's syndrome. *Ann NY Acad. Sci* 1999;893:362-364.
3. Perry G., Nunomura A., Hirai K., Takeda A., **Aliev G.**, and Smith M.A. Oxidative damage in Alzheimer's disease; The metabolic dimension. *Int. J. Dev. Neurosci.* 2000, 1; 18(4-5):417-421.
4. Perry G., Nunomura A, Friedlich A.L., Boswell M.V., Brazdil L, Jones P. K., Rottkamp C. A., Zhu X., Raina A.K., Hirai K., Friedland R.P., Shi J., **Aliev G**, Cash A., Russell R.L., Wataya T., Shimohama S., Atwood C.S., Smith M.A.. Factors Controlling Oxidative Damage in Alzheimer Disease: Metals and Mitochondria In: *Free Radicals in Chemistry, Biology and Medicine* (Eds: Yoshikawa T., Toyokuni S., Yamamoto Y and Natio Y). Chapter 45:2000.
5. Perry G., Nunomura A., Jones P.K., Rottkamp C.A., Zhu X, **Aliev G.**, Cash A., and Smith M.A. Oxidative imbalance is a major feature of Alzheimer disease. *Current Topic in Biochemical Research*, 2000, Vol.3, 151-156.
6. **Aliev G.**, Samedov S. KH., Seyidova D., LaManna J.C., Smith M.A., Perry G., and Gasimov E.K. The Pathogenesis of Cerebrovascular Lesions in AD. *The Reports of the National Academy of Sciences of the Azerbaijan Republic*, 2000, 4-6; 236-242.
7. **Aliev G.**, Smith M.A., Perry G., Seyidova D., Samedov S.KH., Friedland R.P., LaManna J.C., and Gasimov E.K. The Experimental Model of Alzheimer's Disease and its selective pharmacological treatments. *The Reports of the National Academy of Sciences of the Azerbaijan Republic*, 2001, Vol. 57, No1-2; 112-118.
8. Zhu X., Raina A.K., Rottkamp C.A., **Aliev G.**, Perry G., Heather Boux H., and Smith M.A. Activation and redistribution of c-jun N-terminal kinase/stress activated protein kinase in degenerating neurons in Alzheimer's disease. *J. Neurochemistry*, 76:435-441, 2001.
9. **\*\*Aliev G.**,\*Hirai K., Nunomura A., Russell R., Atwood C.S., Johnson A.B., Kress Y., Vinters H.V., Tabaton M., Cash A.D., Siedlak S.L., Harris P.L.R., Jones P.K., Peterson R.B., Perry G., and Smith M.A. Mitochondrial abnormalities in Alzheimer's disease. *The Journal of Neuroscience*

- 2001;21(9):3017-3023. \*Equal Contribution.
10. Perry G, Nunomura A, Avila J., Perez M., Rottkamp C.A., Atwood C.S., Zhu X., **Aliev G**, Cash A., and Smith M.A. Oxidative Damage and Antioxidant Responses in Alzheimer's Disease. In: Alzheimer's Disease: Advances in Etiology, Pathogenesis and therapeutics. (Eds. Iqbal K., Sisodia S.S., & Winblad B.). 2001 John Wiley & Sons, Ltd. Chapter 34; 371-378.
  11. \*\*\*\*Nunomura A, Perry G, **Aliev G**, Hirai K, Takeda A, Balraj EK, Jones PK, Ghanbari H, Wataya T, Shimohama S, Chiba S, Atwood CS, Petersen RB, Smith MA. Oxidative damage is the earliest event in Alzheimer disease. *J. Neuropathology and Exper. Neurology*. 2001 60(8):759-67.
  12. Perry G, Nunomura A, Siedlak S.L., Harris P.L.R., Zhu X., Castellani R.J., **Aliev G.**, and Smith MA. Oxidant and antioxidant responses in Alzheimer disease. *Recent Research Development Biophys. Biochem*. 2001 (1):35-41, ISBN; 81-7736-057-4.
  13. \*\*\*\*\***Aliev G.**, Smith M.A., Seyidova D., Neal M.V., Lamb B.T., Nunomura A., Gasimov E.K., Vinters H.V., Perry G., LaManna J.C., and Friedland R.P. The role of oxidative stress in the pathophysiology of cerebrovascular lesions in AD. *Brain Pathology*, 2002 12(1) 21-35.
  14. \*Shi J., Perry G., Berridge M.S., **Aliev G.**, Smith M. A., LaManna J. C., and Friedland R. P.. Labeling of cerebral amyloid  $\beta$  deposits in vivo using nasally administrated basic fibroblast growth factor and serum amyloid P component. *The Journal of Nuclear Medicine*. 2002, 43(8):1044-1051.
  15. \*Perry G., Nunomura A., Cash A.D., Taddeo M.A., Hirai K., **Aliev G.**, Avila J., Wataya T., Shimohama S., Atwood C.S., and Smith M.A. Reactive oxygen: its sources and significance in Alzheimer's disease. *J. Neural Transmission* 2002, 62:69-75.
  16. \*Perry G, Nunomura A, Hirai K, Zhu X, Prez M, Avila J, Castellani RJ, Atwood CS, **Aliev G**, Sayre LM, Takeda A, Smith MA. Is oxidative damage the fundamental pathogenic mechanism of Alzheimer's and other neurodegenerative diseases? *Free Radic Biol Med*. 2002, 33(11):1475-1479.
  17. \*\*\***Aliev G.**, Seyidova D., Lamb B.T., Neal M.L., Siedlak S.L., Vinters H., LaManna J.C., Friedland R.P., Head E., Perry G., and Cotman C.W. Atherosclerotic lesions and Mitochondria DNA Deletions in Brain Microvessels as a Central Target for the Development of Human AD and AD-like Pathology in a Aged YAC A $\beta$ PP transgenic mice. *Ann. NY Acad. Sci.*, 2002 Vol. 977: 45-64.
  18. Castellani R.J., Hirai K, **Aliev G.**, Drew K.L., Nunomura A., Takeda A., Cash A.D., Obrenovich M.E., Perry G., Smith M.A. The role of mitochondrial dysfunction in Alzheimer disease. *J. Neuroscience Research*, 2002, 270(3):357-360.
  19. **Aliev, G.** Is non-genetic Alzheimer's disease a vascular disorder with neurodegenerative consequences? *J. Alzheimer's Disease*, 2002, V.4 (6):513-516.
  20. **Aliev G.**, M.A. Smith and G. Perry. How long time we need to have to changes our mind that Alzheimer's Disease is Mitochondrial Disease? <http://www.alzforum.org/new/detail.asp?id=760>
  21. \* Cash A. D., **Aliev G.**, Siedlak S.L., H. Fujioka, H.V. Vinters, M. Tabaton, A.B. Johnson,. Paula-Barbosa M., J. Avila, P. K. Jones, M. A. Smith, G. Perry. Microtubule Reduction in Alzheimer's Disease and Aging Is Independent of  $\tau$  Filament Formation. *Am. J. Pathol.*, 2003 162(5):1623-1627.

22. **Aliev G.** Seyidova D., Raina A.K., Obrenovich M.E., Neal M.L., Siedlak S.L., Lamb B.T., Vinters H., LaManna J.C., Smith M.A., and Perry G. Vascular Hypoperfusion, Mitochondria Failure and Oxidative Stress in Alzheimer Disease. Proceeding Indian National Science Academy, 2003, B69 (2):209-238.
23. Chao M., Zhu X., Raina A.K., **Aliev G.**, Takeda A., Nunomura A., Tabaton, Perry G., and Smith M.A. Sources Contributing to the Initiation and Propagation of Oxidative Stress in Alzheimer Disease. Proceeding Indian Natl. Sci. Academy, 2003, B69 (2): 251-260.
24. \* **Aliev G.**, Seyidova D., Lamb B.T., Obrenovich M., Neal M.L., Siedlak S.L., Vinters H., Smith M.A., LaManna J.C., and Perry G. Mitochondria and vascular lesions as a central target for the development of Alzheimer's disease and Alzheimer's disease-like pathology in transgenic mice. *Neurol. Res.*, 2003, Vol. 25, 665-674.
25. **Aliev G.**, Obrenovich M.E., Smith M.A. and Perry G. Hypoperfusion, Mitochondria Failure, Oxidative Stress and AD. *J. Biomedicine Biotech*, 2003, Vol. 3, 162-163.
26. \* **Aliev G.**, Smith M.A., Obrenovich M.E. and Perry G. Role of Vascular Hypoperfusion-Induced Oxidative Stress and Mitochondrial Failure in the Pathogenesis of Alzheimer Disease. *Neurotoxicity Research*, 2003 Vol. 5(6), 385-390.
27. \*Lee HG, Petersen RB, Zhu X, Honda K, **Aliev G**, Smith MA, Perry G. Will preventing protein aggregates live up to its promise as prophylaxis against neurodegenerative diseases? *Brain Pathol.* 2003 13(4): 630-8.
28. \*Perry G, Nunomura A, Raina AK, **Aliev G**, Siedlak SL, Harris PL, Casadesus G, Petersen RB, Bligh-Glover W, Balraj E, Petot GJ, Smith MA. A metabolic basis for Alzheimer disease. *Neurochem Res.* 2003, 10:1549-52.
29. **Aliev G.**, Smith M.A., de la Torre J., and Perry G. Atherosclerotic Lesions and Mitochondria DNA Deletions in Brain Microvessels as a Central target for the development of Human AD and AD-like Pathology in Aged Transgenic Mice. International Proceeding of the Third International Congress on VASCULAR DEMENTIA, October 23-26, 2003). MONDUZZI EDITORE, BOLOGNA, ITALY, V. ISBN 88- 323-3163-2, PP. 9-20.
30. Perry G., Raina A.K., Nunomura A., Lee H-G., Zhu X, Liu Q., Perez M., Cash A.D., Avila J., Castellani R.J., Atwood C.S., **Aliev G.**, Takeda A. and Smith M.A. Oxidative Stress and the Pathogenic Mechanism of Alzheimer Disease. In: *Alzheimer's disease and Related Disorders: Research Advances* (Eds., by K. Iqbal and B. Winblad). [Ana Aslan Intl. Acad. Of Aging, Bucharest, Romania] 2003, PP. 425-432.
31. **Aliev G.** The role of mitochondrial abnormalities as a key target, not only as ATP producers through oxidative phosphorylation, but also as regulators of intracellular Ca<sup>2+</sup> homeostasis and endogenous producers of ROS. In: *Comments on Paper in Alzheimer Research Forum*, 2 December, 2003.
32. Perry G., Avila J., Casadesus G., Nunomura A., Tabaton M., Cash A., **Aliev G.**, Wataya T., Shimohama S., Drew K., Atwood C. and Smith M.A. The role of oxidative stress in the pathogenesis of Alzheimer's disease. *Rev Chil Neuro-Psiquiat*, 2003; 41(Suppl 2): 47-52.
33. Cash A.D., Srinivas R., Rottkamp C.A., Zhu X., Taddeo M.A., **Aliev G.**, Fujioka H., Atwood C.S., Sayre L.M., Castellani R.J., Smith M.A., and Perry G. Metal Homeostasis and its Relation to Oxidative Stress in Alzheimer's disease. In: *REDOX-GENOME INTERACTIONS IN HEALTH AND DISEASE*, MARCEL DEKKER INC., 2003: 19, ISBN 0-8247-4048-3, PP. 425-437.



34. Vascular factors in Alzheimer's disease: Alzheimer' Research forum live discussion. J. Alzheimer's Disease, 2004:673-681.
35. Casadesus G., Smith M.A., Zhu X., Cash A.D., **Aliev G.**, Honda K., Peterson R.B., and Perry G. Alzheimer disease: Evidence for a central pathogenic role of iron-mediated reactive oxygen species. J. Alzheimer's Disease, 2004, 6(2):165-169.
36. Moreira P.I., Nunomura A., Honda K. Liu Q., **Aliev G.**, Oliveira C.R., Santos M.S., Zhu X., Smith M.A. and Perry G. Stress and Homeostatic Regulation of Oxidative Damage in Neurodegenerative Disease. In: XII Biennial Meeting of the Society for Free radical Research International SFRR (Buenos Aires, Argentina, May 5-9, 2004). Editors: S. Puntarulo and A. Boveris. Medimond International Proceeding. Volume ISBN, 2004; 88-7587-109-4, PP.219-224.
37. **Aliev G.**, Moreira P., Oliveira C., Perry G., Santos M., Smith M.A. Re: Lustbader JW, et al., ABAD directly links A $\beta$  to mitochondrial toxicity in AD. Science 2004; 304:448-452. In:<http://www.alzforum.org/new/detail.asp?id=1000#{C8B04AEB-9CBE-4A9E-85BE-2B5579E8314B}>.
38. \* Aliyev A., Seyidova D., Rzayev N., Obrenovich M.E., Lamb B., A. Smith M., G. Perry, de la Torre J.C., and **Aliev G.** Is nitric oxide a key target in the pathogenesis of brain lesions during the development of Alzheimer's disease? Neurol. Res., 2004, V. 26 (5): 547-553.
39. \*Seyidova D., Rzayev N., Aliyev A., Obrenovich M, Lamb B., A. Smith M., G. Perry, de la Torre J.C., **Aliev G.** The role of nitric oxide in the pathogenesis of brain lesions during the development of Alzheimer's disease. In Vivo, 2004, 18(3):325-334.
40. Dobrota D., Lyness S.A. and **Aliev G.** Proceeding of the 11<sup>th</sup> International Symposium, "New Frontiers of Neurochemistry and Neurophysics on Diagnosis and Treatment of Neurological Diseases," with Participation of the International Society for Neurochemistry (ISN), in Memory of Vincenzo Lombardi (Martin, Slovakia, December 4-7, 2003). J. Alzheimer's Disease, 2004, V.6:547-568.
41. \*\*de la Torre J.C., **Aliev G.** and Perry G. Drug Therapy in Alzheimer's disease (Letter to The Editor). New England Journal of Medicine, 2004, 351(18):1911-1913.
42. \* **Aliev G.**, Smith M.A. de la Torre J.C. and Perry G. Mitochondria as a primary target for vascular hypoperfusion and oxidative stress in Alzheimer's disease. Mitochondrion, 2004; Vol 4 (5-6):649-663.
43. \* Zhu X., Smith M.A., Perry G. and **Aliev G.** Mitochondrial failures in Alzheimer Disease. American J. Alz. Dis. and Other Dementia, 2004:19(6):345-352.
44. Moreira P.I., Siedlak S.L., **Aliev G.**, Zhu X., Cash A.D., Smith M.A., Perry G. Oxidative stress mechanisms and potential therapeutics in Alzheimer disease. J. Neural Transm. 2005:112; 921-932. (Epub Head of Print: December 7, 2004).
45. Moreira P, Nunomura A, Petot GJ, **Aliev G.**, Smith MA, Perry G: Brain metabolic alterations are early signs in Alzheimer disease pathophysiology, pp 61-65 (Vellas B: Nutrition, Cognitive Decline and Aging, Serdi Publisher, Paris), 2005.
46. \*\*Bragin V., Chemodanova M. Dzhafarova N., Bragin I., Czerniawski J.L. and **G. Aliev.** Integrated Treatment Approach Improves Cognitive Function in Demented and Clinically Depressed Patients. Am. J. Alz. Dis. & Other Dementia, 2005; 20(1): 21-26.

47. Liu Q., Smith M.A., Avilá J., De Bernardis J., Kansal M., Takeda A., Zhu X., Nunomura A., Honda K., Moreira P.I., Oliveira C.R., Santos M.S., Shimohama S., **Aliev G.**, de la Torre J., Ghanbari H.A., Siedlak S.L., Harris P. L.R., Sayre L.M. and Perry G. Alzheimer-Specific Epitopes of Tau Represent Lipid Peroxidation Induced Conformations. *Free Radical Biol & Med*, 2005, 15; 38(6):746-754.
48. Moreira PI, Smith MA, Zhu X, Honda K, Lee HG, **Aliev G**, Perry G. Oxidative damage and AD: Are antioxidant therapies useful? *Drugs News Perspective*, 2005, 18(1):13-19.
49. \* Aliyev A., Chen S., Seyidova D., Smith M.A., de la Torre., and **Aliev G**. Mitochondria DNA deletions in atherosclerotic hypoperfused brain microvessels as a primary target for the development of Alzheimer's disease. *J. Neurol. Science*, 2005: V. 229-230; 285-292.
50. \* de la Torre J.C. and **Aliev G**. Inhibition of vascular Nitric Oxide after rat chronic brain ischemia: Spatial memory and immunocytochemical changes. *J. Cerebral Blood Flow Metab.* 2005;25(6):663-672.
51. Moreira P.I., Honda K., Liu Q, **Aliev G.**, Oliveira C.R., Santos M.S., Zhu X., Smith M.A. and Perry G. AD Oxidative Stress: The Old Problem Remains Unsolved. *Current Medicinal Chemistry - Central Nervous System Agents*, 2005, 5(1):51-62.
52. **Aliev G.**, Moreira P., Obrenovich M.E., Oliveira C., Smith M.A. and Perry G. **Comments:** **Re:** Vijayvergiya C, Beal MF, Buck J, Manfredi G. Mutant superoxide dismutase 1 forms aggregates in the brain mitochondrial matrix of amyotrophic lateral sclerosis mice. *J Neurosci.* 2005 Mar 9; 25(10):2463-70.
53. **Aliev G**, Moreira P, Obrenovich ME, Oliveira C, Perry G, Smith MA. Mitochondria: Another Dimension in Protein Misfolding (Comment), In: <http://www.alzforum.org/pap/annotation.asp?powID=43769#{65E259F5-CF19-4976-B712-D910AF9C67F3}>, 31 March 2005.
54. Moreira P., Honda K., Lee H., Santos M., Oliveria C.R., **Aliev G.**, Nunomura A., Zhu X., Smith M.A., and Perry G. Oxidative Stress: The old enemy in Alzheimer's Disease *Pathophysiology.* *Current Alzheimer's Research*, 2005; 2:403-408.
55. Moreira PI, Zhu X, Nunomura A, Honda K, Lee HG, **Aliev G**, Smith MA, Perry G. Oxidative stress in Alzheimer disease: an overview. *Perspectives in Neurosciences in the Third Millennium: Baloyannis SJ, Ed. Greece Society for Amelioration of the Quality of Life for Chronic Neurologic Patients, Thessalonikh, Greece*, 2005, pp. 419-433.
56. Zhu X, Perry G. Moreira PI, **Aliev G**, Cash A.D., Hirai K. and Smith MA, Mitochondrial abnormalities and oxidative imbalance in Alzheimer's disease. *J. Alzheimer's Disease*, 2006; 9:147-153.
57. \* Obrenovich M.E., Smith MA., Siedlak SL., Chen S., de la Torre J.C., Perry G. and **Aliev G**. Overexpression of GRK2 in Alzheimer's disease and in a Chronic Hypoperfusion Rodent Model is an Early Marker of Brain Mitochondrial Lesions. *Neurotoxicity Res.* 2006 10(1):43- P56.
58. **Aliev G.**, Miller J.P., Leifer D.W., Obrenovich M.E., Shenk J.C., Smith M.A., LaManna J.C., Perry G., Lust W.D., and Cohen A.R. Ultrastructural analysis of a murine models of congenital hydrocephalus produced by overexpression of transforming growth factor- $\beta$ 1 in the central nervous system. *J. Submicr. Cytology & Pathol.* 2006; 38(2-3)85-91.

59. Zhu X, Smith MA, Honda K, **Aliev G**, Moreira PI, Nunomura A, Casadesus G, Harris PLR, Siedlak SL, Perry G. Vascular oxidative stress in Alzheimer disease. *J Neurol Sci*, 2007; 257(1-2):240-246.
60. Moreira PI, Siedlak SL, Santos MS, Oliveira CR, Fujioka H, Tabaton M, Nunomura A, **Aliev G**, Szweda LI, Zhu X, Smith MA, Perry G. Mitochondrial autophagocytosis in Alzheimer disease. In: *Proceedings of the 10th International Conference on Alzheimer's Disease and Related Disorders*, Medimond S.R.I., Bologna, in *Alzheimer's Disease: New Advances*, Iqbal K, Winblad B, Avila J, Eds, Medimond S.R.I., Bologna, Italy, 2006, pp 373-376.
61. Moreira P.I., Nunomura A., Honda K., **Aliev G.**, Casadesus G., Zhu X., Smith M.A., and Perry G. The key role of oxidative stress in Alzheimer disease. In: "Oxidative Stress and Neurodegenerative Disorders" G.A. Qureshi, Parvez SH, Eds, Elsevier B.V., Amsterdam, 2007, Chapter 12, pp 267-281.
62. \*Moreira PI, Siedlak SL, Wang X, Santos MS, Oliveira CR, Tabaton M, Nunomura A, Szweda LI, **Aliev G**, Smith MA, Zhu X, Perry G. Autophagocytosis of mitochondria is prominent in Alzheimer disease. *J. Neuropathology & Exper. Neurology*, 2007, 66(6):525-532. Erratum in: *J Neuropathol Exp Neurol*. 2007 Jul; 66(7):674.
63. **Aliev G**, J. Liu, K. Xu, M. Puchowicz, S.L. Siedlak, J.C. Shenk, M.A. Smith, E. Gasimov, M.E. Obrenovich, K. Fischbach, J. Koistinaho, J.C. LaManna, B.N. Ames and Perry G. ApoE4 in mice induces age-dependent brain hypoperfusion, neuronal, glial and microvascular damage, and cognitive impairment, which can be prevented by feeding Acetyl-L-Carnitine and R-Lipoic Acid. *Proceedings AD/PD Conference 2007*. Monduzzi Editore, Bologna, Italy. 2007, H314C0563, PP.105-126.
64. \*Moreira PI, Siedlak SL, Wang X., Santos MS, Oliveira CR, Tabaton M, Nunomura A, Szweda LI, **Aliev G**, Smith MA, Zhu X, Perry G. Increased autophagic degradation of mitochondria in Alzheimer disease. *Autophagy*. 2007 Nov-Dec; 3(6):614-5. Epub 2007 Aug 14.
65. \* Klionsky DJ, Abeliovich H, Agostinis P, Agrawal DK, **Aliev G**, Askew DS, Baba M, Baehrecke EH, Bahr BA, Ballabio A, Bamber BA, Bassham DC, Bergamini E, Bi X, Biard-Piechaczyk M, Blum JS, Bredesen DE, Brodsky JL, Brumell JH, Brunk UT, Bursch W, Camougrand N, Cebollero E, Cecconi F, Chen Y, Chin LS, Choi A, Chu CT, Chung J, Clarke PG, Clark RS, Clarke SG, Clavé C, Cleveland JL, Codogno P, Colombo MI, Coto-Montes A, Cregg JM, Cuervo AM, Debnath J, Demarchi F, Dennis PB, Dennis PA, Deretic V, Devenish RJ, Di Sano F, Dice JF, Difiglia M, Dinesh-Kumar S, Distelhorst CW, Djavaheri-Mergny M, Dorsey FC, Dröge W, Dron M, Dunn WA Jr, Duszenko M, Eissa NT, Elazar Z, Esclatine A, Eskelinen EL, Fésüs L, Finley KD, Fuentes JM, Fueyo J, Fujisaki K, Galliot B, Gao FB, Gewirtz DA, Gibson SB, Gohla A, Goldberg AL, Gonzalez R, González-Estévez C, Gorski S, Gottlieb RA, Häussinger D, He YW, Heidenreich K, Hill JA, Høyer-Hansen M, Hu X, Huang WP, Iwasaki A, Jäättelä M, Jackson WT, Jiang X, Jin S, Johansen T, Jung JU, Kadowaki M, Kang C, Kelekar A, Kessel DH, Kiel JA, Kim HP, Kimchi A, Kinsella TJ, Kiselyov K, Kitamoto K, Knecht E, Komatsu M, Kominami E, Kondo S, Kovács AL, Kroemer G, Kuan CY, Kumar R, Kundu M, Landry J, Laporte M, Le W, Lei HY, Lenardo MJ, Levine B, Lieberman A, Lim KL, Lin FC, Liou W, Liu LF, Lopez-Berestein G, López-Otín C, Lu B, Macleod KF, Malorni W, Martinet W, Matsuoka K, Mautner J, Meijer AJ, Meléndez A, Michels P, Miotto G, Mistiaen WP, Mizushima N, Mograbi B, Monastyrska I, Moore MN, Moreira PI, Moriyasu Y, Motyl T, Münz C, Murphy LO, Naqvi NI, Neufeld TP, Nishino I, Nixon RA, Noda T, Nürnberg B, Ogawa M, Oleinick NL, Olsen LJ, Ozpolat B, Paglin S, Palmer GE, Papassideri I, Parkes M, Perlmutter DH, Perry G, Piacentini M, Pinkas-Kramarski R, Prescott M, Proikas-Cezanne T, Raben N, Rami A, Reggiori F, Rohrer B, Rubinsztein DC, Ryan KM, Sadoshima J, Sakagami H, Sakai Y, Sandri M, Sasakawa C, Sass M, Schneider C, Seglen PO, Seleverstov O, Settleman J, Shacka JJ, Shapiro IM, Sibirny A, Silva-Zacarin EC, Simon HU, Simone C, Simonsen A, Smith MA, Spaniel-Borowski K, Srinivas V, Steeves M, Stenmark H, Stromhaug PE, Subauste CS, Sugimoto S,

- Sulzer D, Suzuki T, Swanson MS, Tabas I, Takeshita F, Talbot NJ, Tallóczy Z, Tanaka K, Tanaka K, Tanida I, Taylor GS, Taylor JP, Terman A, Tettamanti G, Thompson CB, Thumm M, Tolkovsky AM, Tooze SA, Truant R, Tumanovska LV, Uchiyama Y, Ueno T, Uzcátegui NL, van der Klei I, Vaquero EC, Vellai T, Vogel MW, Wang HG, Webster P, Wiley JW, Xi Z, Xiao G, Yahalom J, Yang JM, Yap G, Yin XM, Yoshimori T, Yu L, Yue Z, Yuzaki M, Zabirnyk O, Zheng X, Zhu X, Deter RL. Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. *Autophagy*. 2008, 4(2), 1-25. Epub 16 February, 2008. *Autophagy*. 2007 Nov 21; 4(2) [Epub ahead of print].
66. \*Moreira PI, Nunomura A, Nakamura M, Takeda A, Shenk JC, **Aliev G**, Smith MA, Perry G. Nucleic acid oxidation in Alzheimer disease. *Free Radic Biol Med*. 2008 Apr 15; 44(8):1493-505. Epub 2008 Jan 18.
67. \***Aliev G.**, Gasimov E, Obrenovich M.E, Fischbach K., Shenk J.C., Smith M.A. and Perry G. Atherosclerotic lesions and mitochondria DNA deletions in brain microvessels: implication in the pathogenesis of Alzheimer's disease. *Vascular Health and Risk Management (VHRM)*, 2008;4(3), 721-730, Feb 21, 2008 [Epub ahead of print].
68. \* **Aliev G**, Liu J, Shenk JC, Fischbach K, Pacheco GJ, Chen SG, Obrenovich ME, Ward WF, Richardson AG, Smith MA, Gasimov E, Perry G, Ames BN. Neuronal mitochondrial amelioration by feeding acetyl-L-carnitine and lipoic acid to aged rats. *Journal of Cellular and Molecular Medicine (JCOMM)*. Volume13, Issue 2, 2009. 320-333. Published Online: 29 Mar 2008. DOI 10.1111/j.1582-4934.2008.00324.x.
69. \*\*\***Aliev G.**, Shenk J.C., Fischbach K., and Perry G. Stem cell niches as clinical targets for anti-ischemic therapy. *Nature Clinical Practice Cardiovascular Medicine*. 2008, Vol 5, Sep; 5(9):590-1. Epub 2008 Jul 15.
70. Immunotherapy: Old Dogs, New Battle Comment by: **Gjumrakch Aliev** In: <http://www.alzforum.org/pap/annotation.asp?powID=75944#{65D0D2D4-AFFE-4407-A914-E64E7CD71823}>. Submitted 28 April 2008 .Posted 30 April 2008.
71. \***Aliev G**, Obrenovich M.E., Reddy V.P., Shenk J.C., Moreira PI , Nunomura A, Zhu X , Smith MA, Perry G. Antioxidant Therapy in Alzheimer Disease: Theory and Practice. *Mini-Reviews in Medicinal Chemistry*, 2008, Nov;8(13):1395-406.
72. \* **Aliev G.**, Cobb C., Pacheco G., Shenk J.C, Moreira PI, Fischbach K., Morales L.A., Gasimov E. and Perry G. The Role of Oxidative Stress and Vasoactive Substances in the Pathophysiology of Alzheimer's Disease. In: *BioMarkers for Early Diagnosis of Alzheimer's Disease*, ISBN 978-1-60456-991-9 Editors: Daniela Galimberti and Elio Scarpini, 2008 Nova Science Publishers, Inc. Chapter IX, PP.241-265.
73. \* Obrenovich ME, Morales LA, Cobb CJ, Shenk JC, Méndez GM, Fischbach K, Smith MA, Qasimov EK, Perry G. and **Aliev G.** Insights Into Cerebrovascular Complications and Alzheimer Disease Through The Selective Loss of GRK2 Regulation. *J. Cell. Mol. Med*. Vol 13, No 5, 2009 pp. 853-865. [Epub ahead of print, 2008 Oct 6].
74. \*Morales L.A., Pacheco G., Palacios H., Walrafen B., Obrenovich M.E., Gasimov E., LaManna J.C. and **Aliev G.** Oxidative Stress-induced Mitochondrial Failure and Vasoactive Substances as Key initiators of Pathology Favor the Reclassification of Alzheimer Disease as a Vasocognopathy. *NOVA: PUBLICACION CIENTÁFICA EN CIENCIAS BIOMÁDICAS -ISSN 1794-2470, VOL. 6, No10 JULIO-DICEMBRO DE 2008: 101-236. .Colombia 2009: 132-151. (Epub ahead print; DE 2008: 101-236).*

75. \*Horecký J., Bačiak L., Kašparová S., Pacheco G., **Aliev G.** and Vančová O. Minimally Invasive Surgical Approach for Three -Vessel Occlusion as a Model of Vascular Dementia in the Rat-Brain Bioenergetics Assay. *Journal of the Neurological Sciences* 2009, v. 283 (1-2), 178-181 [Epub ahead of print, 2009 Mar 7].
76. \*Shenk J.C., Liu J., Fischbach K., Xu K., Puchowicz M., Obrenovich M.E., Gasimov E., Alvarez L.M., Ames B.N., LaManna J.C. and **Aliev G.** The effect of Acetyl—L-Carnitine and R-alpha-Lipoic Acid Treatment in ApoE4 mouse as a model for human Alzheimer's disease. *Journal of the Neurological Sciences* 2009, v. 283 (1-2), 199–206 [Epub ahead of print 2009, Mar 31].
77. \***Aliev G.**, Palacios H.H., Lipsitt A.E., Fischbach K., Lamb B.T., Obrenovich M.E., Morales L., Gasimov E, and Bragin V. Nitric oxide as an initiator of brain lesions during the development of Alzheimer disease. *Neurotox. Res.* 2009; 16:293–305 [Epub ahead of print 2009 May 30].
78. \***Aliev G.**, Palacios H.H., Walrafen B., Lipsitt A.E., Obrenovich M.E. and Morales L.A. Brain Mitochondria as a Primary Target in the development of Treatment strategies for Alzheimer disease. *International J. Biochemistry & Cell Biology*, 2009; Vol. 41, №10, 1989–2004 [Epub ahead of print 2009, April 05], doi:10.1016/j.biocel.2009.03.015.
79. Moreira P.I., Nunomura A., Zhu X., Lee H.G.A. **Aliev G.**, Smith MA. and Perry G. Alzheimer Disease: Oxidative Stress and Compensatory Responses. In: *Oxidative Neural Injury, Contemporary Clinical Neuroscience*, S.C. Veasey (ed.), Humana Press, a part of Springer Science Business Media, LLC 2009, ISBN 978-1-60327-341-1, PP. 109-120 [109. DOI 10.1007/978-1-60327-342-8\_7].
80. \***Aliev G.**, Palacios H., Aguirre A., Pacheco G.J., Gasimov E., Morales L., Gokhman D., Obrenovich M.E., Bragin V., Solis A. and Leszek J. Oxidative Stress Induced Mitochondrial Failure and Cellular Hypoperfusion: Implication in the Pathogenesis of Alzheimer Disease. *Polish J. of Geriatric Psychiatry*, 2009, vol. 6, No 4:155-179.
81. Gasimov E.K., Eyubova G.M., **Aliev G.M.** Molecular basics of pathological changes in the vascular and glial elements of brain cortex during endotoxemia. *Proceeding of the articles from the International Confreres dedicated to 90 years anniversary department of Human Anatomy of the Azerbaijan Medical University, Baku, 2009*, p.172-175.
82. \***Aliev G.**, Palacios H.H., Gasimov E., Obrenovich M.E., Morales L., Leszek J. Bragin V., Solís Herrera A. and Gokhman D. Oxidative stress induced mitochondrial failure and vascular hypoperfusion as a key initiator for the development of Alzheimer disease. *Pharmaceuticals* 2010, 3(1):158-187.
83. \*Obrenovich M.E., Palacios H.H., Gasimov E., Leszek J and **Aliev G.** The GRK2 overexpression as a primary hallmark of mitochondrial lesions during early Alzheimer disease. *Cardiovasc Psychiatry Neurol.* 2009;2009:327360. Epub 2010 Mar 3.
84. \*\*\*\*Aliev G, Palacios H, Gasimov E, Solis Herrera A, Leszek J, Gokhman D, Bragin V, Obrenovich M : Comment on Holmes et al hypothesis "Plaque removal is not enough to halt progressive neurodegeneration in Alzheimer Disease." In: <http://hypothesis.alzforum.org/swan/browser/showEntity!showHypothesisRGraph1.action?objectId=urn%3Aalsid%3Aswan.org%3Acomment%3Af078cafb-5e0e-4fa7-9d32-6da7ac314356>
85. \*\*Horecký J., **Aliev G.**, Gvozdjáčová A., Kucharská J. and Vančová O. Preventive and Therapeutic Coenzyme Q10 Supplementation In Rat Subjected to Cerebrovascular Ischemia-Reperfusion Injury. *Current Neurobiology*, 2010, 1 (1): 30-36.

86. \*Gasimov E.K., Guliyeva N.T. and Aliev **G.M.** Morphological basis of the participation of arterioles in the formation of the acute endoneural edema. The Reports of the National Academy of Sciences of the Azerbaijan Republic, 2010 Vol. LXVI CILD (No1), 119-129.
87. \*Vančová O., Bačiak L., Kašparová S., Kucharská J., Palacios H.H., Horecký J. and **Aliev G.** In vivo and in vitro assessment of brain bioenergetics in aging rats. J Cell Mol Med. 2010 Nov;14(11):2667-2674. doi: 10.1111/j.1582-4934.2009.00879.x.
88. \*\*Obrenovich M.E., Nair G.N., Beyaz A, **Aliev G.** and Reddy V.P. The Role of Polyphenolic Antioxidants in Health, Disease and Aging. Rejuvenation Research. December 2010, 13(6): 631-643. doi:10.1089/rej.2010.1043
89. \*\***Aliev G.** and V.P. Reddy. Oxidative Stress-induced Cellular Hypoperfusion, Mitochondrial Failure and Brain Hypometabolism as the Causative Factors for the Pathophysiology of Cerebrovascular and Alzheimer Disease: Past, Present and Future 2010 ISSUE OF BenSci, A BENTHAM SCIENCE NEWSLETTER, ISSN: 1875-1898, 2010, vol.2 , 1-4.
90. Castellani R.J., Moreira P., **Aliev G.**, Shenk J.C., Siedlak S.L., Harris P.L.R., Sayre L.M., Szweda P.A., Szweda L.I., Zhu X., Smith M.A. and Perry G. Hydroxynonenal-Generated Crosslinking Fluorophore And Mitochondria-Derived Lipoic Acid Accumulation In Alzheimer Disease Reveal A Dichotomy Of Protein Turnover. Microsc. Microanal. 16 (Suppl 2), 2010. 1014-1015. doi:10.1017/S1431927610059350.
91. \*\***Aliev G.** The Role of oxidative stress, mitochondria failure and cellular hypoperfusion in the pathobiology of Alzheimer disease. 2010; ISBN: 978-81-308-0367-8; Editors: Aliev G., et al., Publisher Research Signpost, Inc., 2011.
92. \*Leszek J. and **Aliev G.** Vascular pathology in the pathogenesis of Alzheimer's disease. In: The Role of oxidative stress, mitochondria failure and cellular hypoperfusion in the pathobiology of Alzheimer disease. 2010;ISBN: 978-81-308-0367-8; Editors: Aliev G., et al., Publisher Research Signpost, Inc. 2010, Chapter 1, PP. 1-18.
93. \* Palacios H.H., Solis Herrera A., Cobb C.J., Pacheco G.J., Fischbach K., Obrenovich M.E., Shadlinski V.B., LaManna J.C., Bragin V. and **Aliev G.** Development and progression of Alzheimer disease as a result of cellular hypoperfusion from oxidative stress and mitochondria failure as primary pathogenic factors. In: The Role of oxidative stress, mitochondria failure and cellular hypoperfusion in the pathobiology of Alzheimer disease. 2010;ISBN: 978-81-308-0367-8; Editors: Aliev G., et al., Publisher Research Signpost, Inc. 2010, Chapter 3, PP. 45-81.
94. \*Obrenovich M.E., Solis Herrera A., Cobb C.J., Fischbach K., Shadlinski V.B. and **Aliev G.** Lessons learned from the selective loss of GRK2 regulation and consequent cerebrovascular complications and Alzheimer disease . 2010;ISBN: 978-81-308-0367-8; Editors: Aliev G., et al., Publisher Research Signpost, Inc. 2010, Chapter 9, PP. 205-226.
95. \*Horecký J, Bačiak L, Kašparová S, Pacheco G, **Aliev G.** and Vančová O. Three-Vessel Occlusion: A surgical approach for Vascular dementia in the rat with low invasiveness can use design or technique. In: The Role of oxidative stress, mitochondria failure and cellular hypoperfusion in the pathobiology of Alzheimer disease. 2010; ISBN: 978-81-308-0367-8; Editors: Aliev G., et al., Publisher Research Signpost, Inc. 2010, Chapter 10, PP. 227-236.
96. \***Aliev G.**, Liu J., Fischbach K., Pacheco G.J., Palacios H., Walrafen B., Obrenovich M.E., Shadlinski V.B., Solis Herrera A., and Ames B. N. Feeding Acetyl-L-Carnitine and Lipoic Acid to Aged Rats Ameliorates Neuronal Mitochondria Damage. In: The Role of oxidative stress, mitochondria failure and cellular hypoperfusion in the pathobiology of Alzheimer disease.

- 2010; ISBN: 978-81-308-0367-8; Editors: Aliev G., et al., Publisher Research Signpost, Inc. 2010, Chapter 13, PP. 273-296.
97. \***Aliev G.**, Liu J., Fischbach K., Xu K., Puchowicz M., Obrenovich M.E., Shadlinski V.B., Solis Herrera A., Ames B.N. and LaManna J.C. The response to Lipoic acid and acetyl-L-Carnitine regiments in ApoE4 mice serves a model for Alzheimer Disease in humans. In: The Role of oxidative stress, mitochondria failure and cellular hypoperfusion in the pathobiology of Alzheimer disease. 2010; ISBN: 978-81-308-0367-8; Editors: Aliev G., et al., Publisher Research Signpost, Inc. 2010, Chapter 14, PP. 297-316.
  98. \*Bragin V. and **Aliev G.** Progression of Cognitive Function after Integrated Treatment Approach in Demented and Clinically Depressed Patients. In: The Role of oxidative stress, mitochondria failure and cellular hypoperfusion in the pathobiology of Alzheimer disease. 2010; ISBN: 978-81-308-0367-8; Editors: Aliev G., et al., Publisher Research Signpost, Inc. 2010, Chapter 15, PP. 317-325.
  99. \***Aliev G.** Oxidative stress induced-metabolic imbalance, mitochondrial failure, and cellular hypoperfusion as primary pathogenetic factors for the development of Alzheimer disease which can be used as a alternate and successful drug treatment strategy: past, present and future. *CNS & Neurological Disorders - Drug Targets*, 2011;10(2):147-8.
  100. \*\*Palacios H.H., Yendluri B.B., Parvathaneni K. , Shadlinski V. B. , Obrenovich M. E., Leszek J., Gokhman D. , Gąsiorowski K. Bragin V. and **Aliev G.** Mitochondrion-Specific Antioxidants as Drug Treatments for Alzheimer Disease. *CNS & Neurological Disorders - Drug Targets*, 2011;10(2):149-62.
  101. \*\*Obrenovich M.E., Li Y., Parvathaneni K, Yendluri B.B., Palacios H.H., Leszek J. and **Aliev G.** Antioxidants in health, disease and aging. *CNS & Neurological Disorders - Drug Targets*, 2011;10(2):192-207.
  102. \*\* Gąsiorowski K., E. Lamer-Zarawska, J. Leszek, K. Parvathaneni, B.B. Yendluri, Z. Blach-Olszewska and **G. Aliev.** Flavones from Root of *Scutellaria Baicalensis* Georgi: Drugs of the Future in Neurodegeneration? *CNS & Neurological Disorders - Drug Targets*, 2011;10(2):184-91.
  103. \*Ieradzki A., Yendluri B. B., Palacios H.H., Parvathaneni K. , Reddy V.P., Obrenovich M.E., Gąsiorowski K., Leszek J. and **Aliev G.** Implication of Oncogenic Factors as a Treatment Strategy for Neurodegenerative Disorders in the Context of Chronic and Potentially Terminal Diseases - Contemporary Approaches. *CNS & Neurological Disorders - Drug Targets*, 2011;10(2):175-83.
  104. \***Aliev G.**, Palacios H., Obrenovich M.E. Gokhman D., Gąsiorowski K., Leszek J. and Bragin V. Oxidative Stress Induced Vascular Hypoperfusion, Mitochondrial Failure Are Missing Links for the Development of Alzheimer Disease. In: *Vascular Dementia*, Editor: Sarah R. Jacobsen, ISBN: 978-1-61122-313-2, 2011 Nova Science Publishers, Inc. 2011, March. Chapter II, pp. 49-78.
  105. \***Aliev G.**, Palacios H., Gokhman D., Gąsiorowski K., Bragin V., Leszek J. and Obrenovich M.E. GRK2 Overexpression is a Primary Hallmark of Vascular Hypoperfusion and Mitochondrial Lesions During Early Alzheimer Disease: New Target for Drug Treatment? In: *Vascular Dementia*, Editor: Sarah R. Jacobsen, ISBN: 978-1-61122-313-2, 2011. Nova Science Publishers, Inc. 2011, March. Chapter III, pp. 79-104.
  106. \***Aliev G.**, Palacios H., Betts B., Obrenovich M.E., Gąsiorowski K., Gokhman D., Leszek J. and Bragin V. Mitochondrion Selective Antioxidants as Drug Treatments for Alzheimer

- Disease. In: Vascular Dementia, Editor: Sarah R. Jacobsen, ISBN: 978-1-61122-313-2, 2011. Nova Science Publishers, Inc. 2011, March. Chapter IV, pp. 105-128.
107. \*\*Horecký J., Gvozdjaková A., Kucharská J., Obrenovich M.E., Yendluri B.B., Palacios H.H., Vancová O., and **Aliev G.** Effects of Coenzyme Q and Creatine Supplementation on Brain Energy Metabolism in Rats Exposed to Chronic Cerebral Hypoperfusion. *Curr Alzheimer Res.* 2011, 8(8):868-875.
  108. \*\* **Aliev G.,** Palacios H.H., Bhushan B.Y., Gasiorowski K., Gokhman D., Shadlinski V.B., Bragin V., Leszek J. Oxidative Stress Induced Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Brain Hypometabolism In the Context of Cerebrovascular and Alzheimer Disease: Offer New and Successful Targets for the Drug Delivering and Treatment. *Polish Journal of Geriatric Psychiatry (Psychogeriatría Polska)*, 2011, 8(1): 23-30.
  109. \* **Aliev G.,** Li Y., Palacios H., and Obrenovich M.E. Oxidative Stress Induced Mitochondrial DNA Deletion as a Hallmark for the Drug Development in the Context of the Cerebrovascular Diseases. *Recent Patents on Cardiovascular Drug Discovery*, 2011, 6, 222-241.
  110. \*\*Obrenovich M.E., Gasiorowski K., Palacios H.H. , Gokhman D., Shadlinski V.B., Bragin V., Leszek J. and **Aliev G.** Selective loss of GRK2 regulation and its consequences: cerebrovascular complications and Alzheimer disease. *Psychogeriatría Polska*, 2011; 8(3-4):81-98.
  111. \*Zhu X., Castellani R.J., Moreira P.I., **Aliev G.,** Shenk J.C., Siedlak S.L., Harris P.L.R., Fujioka H., Sayre L.M., Szweda P.A., Szweda L.I., Smith M. A. and Perry G. Hydroxynonenal-generated crosslinking Fluorophore accumulation in Alzheimer disease reveals a dichotomy of protein turnover. *Free Radic Biol Medicine*, 2012, 52(3):699-704. [Epub ahead of print, 2011 Nov 12], doi:10.1016/j.freeradbiomed.2011.11.004.
  112. \*\*Magalov SI, Hasanov NF, Azizova NX, Novruzov AN, Mustafayev ZB, Kazimov SA, Sultanov SS, Hasanov EN and **Aliev G.** The Prevalence of Epilepsy in the Nakhichevan Autonomous Republic of Azerbaijan. *CNS Neurol Disord Drug Targets.* 2012,11(2):102-109 [Epub ahead of print, . 2012 Jan 4].
  113. \*\*Bragin V., Chemodanova M., Bragin I., Dzhafarova N., Mescher I., Chernyavskyy P., Obrenovich M.E., Palacios H.H. and **Aliev G.** A 60-month follow-up of a naturalistic study of integrative treatment for real-life geriatric patients with depression, dementia and multiple chronic illnesses. *Open Journal of Psychiatry*, 2012, vol.2, 129-140.
  114. \*\*Kosenko E.A., **Aliev G.,** Tikhonova L.A., Yi, Li., Poghosyan A.C., Kaminsky Y.G. Antioxidant Status and Energy State of Erythrocytes as a Markers for the Dementia. *CNS & Neurological Disorders-Drug Targets.* 2012, Vol. 11(7) 926-932. Epub ahead of print, September 17, 2012.
  115. **Aliev G.,** Reddy V.P. and Cacabelos R. Role of Electron Microscopy-Immunocytochemistry and In Situ Hybridization in the Study of Oxidative Stress-Induced Mitochondrial Abnormalities and the Pathobiology of Neurodegeneration and Cancer. In: "Current microscopy contributions to advances in science and technology", - Editor: Antonio Méndez-Vilas, Publisher: Formatex Research Center, -Volume 1, ISBN (13): 978-84-939843-5-9, 2012, PP. 366-385.
  116. \*Kaminsky Y.G. Poghosyan A.C., Tikhonova L.A., Palacios H.H., M.A. Kamal, Kosenko E.A. and **Aliev G.** Glycolytic and Proteolytic Metabolism in Erythrocytes from Elderly and Demented patients. *Am. J. Neuroprotection Neuroregeneration.* 2012, 4, 73-77.



117. \*\*Cacabelos R., Cacabelos P and **Aliev G.** Genomics of Schizophrenia and Pharmacogenomics of Antipsychotic Drugs. *Open Journal of Psychiatry*, 2013, 3, 46-139. [doi:10.4236/ojpsych.2013.31008](https://doi.org/10.4236/ojpsych.2013.31008) Published Online January 2013.
118. \*\***Aliev, G.** "The Role of Oxidative Stress, Mitochondria Failure, and Cellular Hypoperfusion in the Context of Alzheimer Disease: Past, Present and Future". Monograph Book: Nova Science Publishers, Inc., New York, 2013, ISBN: 978-1-61942-878-2. PP. 1-426. [https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=31801](https://www.novapublishers.com/catalog/product_info.php?products_id=31801)
119. \***Aliev, G.,** Obrenovich M.E., Tabrez S., Jabir N.R., Reddy V.P., Li Y., Burnstock G., Cacabelos R. and Kamal M.A. Link between Cancer and Alzheimer Disease via Oxidative Stress Induced by Nitric Oxide-Dependent Mitochondrial DNA Overproliferation and Deletion. *Oxidative Medicine and Cellular Longevity*. [vol. 2013, Article ID 962984, 19 pages, 2013. doi:10.1155/2013/962984.](https://doi.org/10.1155/2013/962984)
120. \*\***Aliev, G.** Palacios H.H., Cacabelos P., Cacabelos R., Burzynski G., and S.R. Burzynski. Mitochondria Specific Antioxidants and their Derivatives in the Context of the Drug Development for Neurodegeneration and Cancer. *Drug Des 2012, 2: 103*, [doi: 10.4172/2169-0138.1000103](https://doi.org/10.4172/2169-0138.1000103)
121. \*\*\*Carrera I., Etcheverría I., Li Y., Fernandez-Novoa L., Lombardi V., Vigo C., Palacios H.H., Benberin V.V., Cacabelos R., and **Aliev G.** Immunocytochemical Characterization of Alzheimer Disease Hallmarks in APP/PS1 Transgenic Mice Treated with a New Anti-Amyloid- $\beta$  Vaccine. *BioMed Research International*, vol. 2013, Article ID 709145, 12 pages, 2013. [doi:10.1155/2013/709145.](https://doi.org/10.1155/2013/709145)
122. \*\*\*Kaminsky G. Y., Reddy V.P., Ashraf G. Md., Ahmad A., Benberin V.V., Kosenko E.A. and **Aliev G.** Age-Related Defects in Erythrocyte 2,3-Diphosphoglycerate Metabolism in Dementia. *Aging Dis*, 2013, Vol. 4, No #5, 244-255. [http://dx.doi.org/10.14336/AD.2013.0400244.](http://dx.doi.org/10.14336/AD.2013.0400244)
123. \*\*\***Aliev G.,** Solis-Herrera A., Li Y Kaminsky Y.G., Yakhno N.N., Nikolenko V.N., Zamyatnin Jr. A.A., Benberin V.V., and S.O. Bachurin. Human Photosynthesis, the Ultimate Answer to the Long Term Mystery of Kleiber's Law or  $E=M^{3/4}$ : Implication in the Context of Gerontology and Neurodegenerative Diseases. *Open Journal of Psychiatry*, 2013, 3, 408-421. [http://dx.doi.org/10.4236/ojpsych.2013.34045.](http://dx.doi.org/10.4236/ojpsych.2013.34045)
124. \*\*\* **Aliev G.,** Ashraf G.Md., Kaminsky Y.G., Sheikh I.A., Sudakov S. K., Yakhno N.N., Benberin V.V. and Bachurin S.O. Implication of the Nutritional and Non-Nutritional Factor in the Context of the Preservation of The Cognitive Performance in Demented/Depressed and Alzheimer Patients. *Am J Alzheimers Dis Other Demen.* 2013, 28(7): 660-670. **first published on October 1, 2013 as** [doi:10.1177/1533317513504614](https://doi.org/10.1177/1533317513504614)
125. \*\*\*Kosenko E.A., Solomadin I.N., Tikhonova L.A., P. Reddy, **Aliev G.** and Kaminsky Y.G. Pathogenesis of Alzheimer Disease: Role of Oxidative Stress, Amyloid- $\beta$  Peptides, Systemic Ammonia and Erythrocyte Energy Metabolism. *CNS & Neurological Disorders - Drug Targets*, 2014, 13(1), 112-119. **[2013 Sep 16, Epub ahead of print].**
126. \*\*\* **Aliev G.,** K. Shahida, C.K. Hua Gan S.K. Firoz, A. Khan, A.M. Abuzenadah, W. Kamal, M.A. Kamal, Tan Y., Qu X and M. Reale. Alzheimer disease and type 2 diabetes mellitus: the link to tyrosine hydroxylase and probable nutritional strategies. *CNS & Neurological Disorders-Drug Targets*. 2014, 13 (3), 467-477 **[Epub ahead of print, 2013 Sep 18].**
127. \*\*\***Aliev G.,** Priyadarshini M., Reddy V.P., Grieg N.H., Kaminsky Y., Cacabelos R. Ashraf G.Md., Jabir, N.R. , Kamal M.A., Nikolenko V.N., Zamyatnin Jr. A.A., Benberin V.V., and S. O. Bachurin. Oxidative Stress Mediated Mitochondrial and Vascular Lesions as Markers in the

- Pathogenesis of Alzheimer Disease. *Current Medicinal Chemistry*, 2014, 21, 2208-2217 [Epub ahead of print, 2013 Dec 27].
128. \*\*Kosenko, E.A. , Tikhonova, L.A. Li, Y., Poghosyan, A.C., Benberin V.V., Kaminsky Y.G. and **G. Aliev**. Antioxidant Status and Energy State of Erythrocytes in Alzheimer Dementia: Potential Probing for Markers. In: Laher, Ismail (Ed.): *Systems Biology of Free Radicals and Antioxidants*, Springer Berlin Heidelberg 2014, Part VI, Pages, pp 2289-2304. DOI [10.1007/978-3-642-30018-9\\_202](https://doi.org/10.1007/978-3-642-30018-9_202), Print ISBN: 978-3-642-30017-2, Online ISBN: 978-3-642-30018-9, Publisher Springer Berlin Heidelberg 2014.
  129. \*\***Aliev, G.**, Li, Y., Palacios, H.H., Obrenovich, M.E., Bragin, V., Bragin, I., Shevtsova, E., Klochkov, S.G., Kosenko, E.A., Kaminsky, Y.G., Bachurin. S.O., R. Cacabelos, and Benberin V.V. Atherosclerotic Lesions and Mitochondria DNA Deletions as a Primary Hallmark of the Brain Microcirculation: Implication in the Pathogenesis of Alzheimer Disease. In: Laher, Ismail (Ed.): *Systems Biology of Free Radicals and Antioxidants*, Springer Berlin Heidelberg 2014, Part VI, Pages, pp 2127-2145. DOI [10.1007/978-3-642-30018-9\\_203](https://doi.org/10.1007/978-3-642-30018-9_203), Print ISBN: 978-3-642-30017-2, Online ISBN: 978-3-642-30018-9, Publisher Springer Berlin Heidelberg 2014.
  130. \*\***Aliev, G.**, Ashraf, G.Md., Horecký, J., Vancová, O., Gvozdjaková, A., Kucharská, J., Palacios, H.H., Li, Y., Khan, T.A., Sardar, R., Bragin, V., Bragin, I., Shevtsova, E., Klochkov, S.G., Kosenko, E.A. , Cacabelos, R., Kaminsky, Y.G., Sudakov V.K., Benberin V.V., and S.O. Bachurin. Potential Preventive Effects of Coenzyme Q and Creatine Supplementation on Brain Energy Metabolism in Rats Exposed to Chronic Cerebral Hypoperfusion. . In: Laher, Ismail (Ed.): *Systems Biology of Free Radicals and Antioxidants*, Springer Berlin Heidelberg 2014, Part VI, Pages, pp 2033-2048. DOI [10.1007/978-3-642-30018-9\\_204](https://doi.org/10.1007/978-3-642-30018-9_204), Print ISBN: 978-3-642-30017-2, Online ISBN: 978-3-642-30018-9, Publisher Springer Berlin Heidelberg 2014.
  131. \*\***Aliev, G.**, Horecký, J., Vancová, O., Ashraf, G.Md., Hassan, I. Bragin, V., Bragin, I., Shevtsova, E., Klochkov, S.G., Kosenko, E.A. , Cacabelos, R., Bachurin, S.O., Benberin, V.V., and Y.G. Kaminsky. The Three-Vessel Occlusion as a Model of Vascular Dementia: Oxidative Stress and Mitochondrial Failure as an Indicator of Brain Hypoperfusion In: Laher, Ismail (Ed.): *Systems Biology of Free Radicals and Antioxidants*, Springer Berlin Heidelberg 2014, Part VI, Pages, pp 2023-2032. DOI [10.1007/978-3-642-30018-9\\_205](https://doi.org/10.1007/978-3-642-30018-9_205), Print ISBN: 978-3-642-30017-2, Online ISBN: 978-3-642-30018-9, Publisher Springer Berlin Heidelberg 2014.
  132. \*\***Aliev, G.**, Burzynski, G., Ashraf, G.Md., Jabir, N.R., Cacabelos R. Benberin V.V. and S.R. Burzynski. Implication of Oxidative Stress Induced Oncogenic Signaling Pathways as a Treatment Strategy for Neurodegeneration and Cancer. In: Laher, Ismail (Ed.): *Systems Biology of Free Radicals and Antioxidants*, Springer Berlin Heidelberg 2014, Part VI, Pages, pp 2325-2347. DOI [10.1007/978-3-642-30018-9\\_206](https://doi.org/10.1007/978-3-642-30018-9_206), Print ISBN: 978-3-642-30017-2, Online ISBN: 978-3-642-30018-9, Publisher Springer Berlin Heidelberg 2014.
  133. \*\***Aliev, G.**, Kaminsky, Y.G. , Bragin, V., Kosenko, E.A. , Klochkov, S.G., S. O. Bachurin, and Benberin V.V.. Flavones from the Root of *Scutellaria Baicalensis* Georgi: Drugs of the Future in Neurodegeneration and Neuroprotection? In: Laher, Ismail (Ed.): *Systems Biology of Free Radicals and Antioxidants*, Springer Berlin Heidelberg 2014, Part VI, Pages, pp 2305-2323. DOI [10.1007/978-3-642-30018-9\\_207](https://doi.org/10.1007/978-3-642-30018-9_207), Print ISBN: 978-3-642-30017-2, Online ISBN: 978-3-642-30018-9, Publisher Springer Berlin Heidelberg 2014.
  134. \*\***Aliev, G.**, Li, Y., Palacios, H.H., Obrenovich, M.E., Bragin, V., Bragin, I., Shevtsova, E., Klochkov, S.G., Kosenko, E.A., Cacabelos, R., Kaminsky, Y.G., Bachurin S.O. , and Benberin V.V. Oxidative Stress Induced Mitochondrial DNA Deletion as a Hallmark for the Drug Development in the Context of the Neurodegeneration, Cardiovascular and Cerebrovascular Diseases. In: Laher, Ismail (Ed.): *Systems Biology of Free Radicals and Antioxidants*, 2014, Part VI, Pages pp 2083-2126. DOI [10.1007/978-3-642-30018-9\\_208](https://doi.org/10.1007/978-3-642-30018-9_208), Print

ISBN: 978-3-642-30017-2, Online ISBN: 978-3-642-30018-9, Publisher Springer Berlin Heidelberg 2014.

135. \*\*\*Grieg Ni.H., Kamal M.A., N.R. Jabir, Tabrez S., Nasim F.H., Abuzenadah A.M. and **Aliev G.** Specific Cholinesterase Inhibitors: A Potential Tool to Assist in Management of Alzheimer Disease. *Frontiers in Drug Design and Discovery*, Editors: Atta-ur-Rahman and Mohammad Iqbal Choudhary, eISBN: 978-1-60805-822-8, 2014; ISBN: 978-1-60805-823-5 2013, Vol. 6, Chapter 21, Pp. 366-386. DOI: [10.2174/97816080582281140601](https://doi.org/10.2174/97816080582281140601).
136. \*\*\*Shevtsova E.F., Vinogradova D.V., Kireeva E.G., V. Prakash Reddy, **Aliev G.** and Bachurin S.O. Dimebon Attenuates the Rat-Brain Mitochondrial Permeabilization. *Curr Alzheimer Res.* 2014;11(5):422-429. [Epub ahead of print, May 4].
137. \*\*\*Kosenko E. A., Beloushko E.E., Tikhonova L.A., V. P. Reddy, **Aliev G.**, and Kaminsky Y.G. Differential Up-Regulation of Ammonia Detoxifying Enzymes in Cerebral Cortex, Cerebellum, Hippocampus, Striatum and Liver in Hyperammonemia. *CNS Neurol Disord Drug Targets.* 2014, 13(6):1089-1095 [2014 Aug 6., Epub ahead of print].
138. \*\*\*Tikhonova L. A., Kaminsky Y. G., Li Y., Reddy V.P., Solomadin I. N., Kosenko E. A. and **Aliev G.** Impacts of A $\beta$ 25-35 on membrane stability, energy metabolic and antioxidant enzymes in erythrocytes of different ages. *Am J Alzheimers Dis Other Demen.* 2014, Vol. 29(8): 685-695 [Epub ahead of print, 2014 May 16. pii: [1533317514534757](https://pubmed.ncbi.nlm.nih.gov/2533317514534757/) ].
139. \*\*V.P. Reddy, J. Mehta and **Aliev G.** Role of  $\alpha$ -Lipoic Acid and Acetyl-L-Carnitine in Dementia. In: *Diet and Nutrition in Dementia and Cognitive Decline*, 1<sup>st</sup> Edition (Eds. Colin R. Martin and Victor R. Preedy). Academic Press (Imprint of Elsevier). Print Book ISBN :9780124078246, eBook ISBN :9780124079397. Release Date: 18 Nov 2014 (2015), part V, Chapter 88, PP. 955-962. <http://store.elsevier.com/product.jsp?isbn=9780124078246>
140. \*\*\*\* Siew Hua G, Kamal MA, Lima MM, Khalil MI, Pasupuleti VR, **Aliev G.** Medicinal plants in management of type 2 diabetes and neurodegenerative disorders. *Evid Based Complement Alternat Med.* 2015;2015:686872. doi: [10.1155/2015/686872](https://doi.org/10.1155/2015/686872). Epub 2015 Mar 19.
141. \*\*\*\*\*Iomdina E.N., Khoroshilova-Maslova I.P., Robustova O.V., Averina O.A., Kovaleva N.A., **Aliev G.**, Reddy V.P., Zamyatnin Jr. A.A., Skulachev M.V., Senin I.I. and V.P. Skulachev. Mitochondria-targeted antioxidant SkQ1 reverses glaucomatous lesions in rabbits. *Front Biosci (Landmark Ed)*, 2015, Jan 1, V. 20: 892-901. DOI No:[10.2741/2817](https://doi.org/10.2741/2817).
142. \*\*\*\*\* Kotelnikova R. A., Grigorev V. V., Smolina A. V., Faingold I. I., Mishchenko D. V., Vankin G. I., Zamoiskii V. L., Poletaeva D. A., Markova N. A., Romanova V. S. , Kotelnikov A. I., **Aliev G.** and S. O. Bachurin. Design of a hybrid nanostructure based on fullerene C<sub>60</sub> and biologically active substance as one of the ways for modeling physiological properties of compounds. *Russ. Chem. Bull., Int. Ed.*, 09/2014, No. 10: 2375-2382.
143. \*\*\*\* Herrera AS, Del C A Esparza M, Md Ashraf G, Zamyatnin AA, and **Aliev G.** Beyond Mitochondria, What would be the Energy Source of the Cell? *Cent Nerv Syst Agents Med Chem.* 2015;15(1):32-41.
144. **Aliev G.** Preface. *Cent Nerv Syst Agents Med Chem.* 2015;15(1):3.
145. **Aliev G.** Meet the Editorial Board. *Cent Nerv Syst Agents Med Chem.* 2015;15(1):2.
146. \*\*\*\*\*Savvateeva LV, Gorokhovets NV, Makarov VA, Serebryakova MV, Solovyev AG, Morozov SY, Reddy VP, Zernii EY, Zamyatnin AA Jr, **Aliev G.** Glutenase and Collagenase Activities of

- Wheat Cysteine Protease Triticain- $\alpha$ : Feasibility for Enzymatic Therapy Assays. *Int J Biochem Cell Biol.* 2015, 62: 115-224.
147. \*\*\*Baksheeva V.E., Nazipova A.A., Zinchenko D.V., Serebryakova M.V., Senin I.I., Permyakov S.E., Philippov P.P., Li Y., Zamyatnin Jr. A.A., Zernii E.Yu. and **Aliev G.** Ca<sup>2+</sup>-myristoyl switch in neuronal calcium sensor-1: A role of c-terminal segment. *CNS Neurological Disorders and Drug Targets*, *CNS Neurol Disord Drug Targets.* 2015, vol. 14, 437-451 [Epub ahead of print, Feb 25].
  148. \*\*\*\*\* Torrente D , Cabezas R, Avila M, Sanchez Y , Morales L, Ashraf GMd, Barreto GE, Gonzalez J, **Aliev G.** Mechanisms of PDGFR alpha promiscuity and PDGFR beta specificity in association with PDGFB. *Frontiers in Bioscience, Elite*, 2015, June 1, vol. 7, 434-446.
  149. \*\*\*\*Herrera AS, Md Ashraf G, Del C Arias Esparza M, Solís Arias RI, Bachurin SO., Barreto GE, and **Aliev G.** Biological Activities of QIAP1 1 as a Melanin Precursor and Its Therapeutic Effects in Wistar Rats Exposed to Arsenic Poisoning. *Cent Nerv Syst Agents Med Chem.* 2015, Vol.15 (2), 99-108 [Epub ahead of print, Apr 24].
  150. \*\*\*\*\* Savvateeva L.V., Schwartz A.M., Gorshkova L.B., Gorokhovets N.V., Makarov V.A., Reddy V.P., **Aliev G.** and A.A. Zamyatnin, Jr. Prophylactic Admission of an In Vitro Reconstructed Complexes of Human Recombinant Heat Shock Proteins and Melanoma Antigenic Peptides Activates Anti-Melanoma Responses in Mice. *Current Molecular Medicine, Curr Mol Med.* 2015; 15(5): 462-468 [Epub ahead of print Jun 30, 2015], DOI: [10.2174/1566524015666150630125024](http://dx.doi.org/10.2174/1566524015666150630125024).
  151. \*\*\*\*\*Yarla N.S., Satyakumar K., Srinivasu D., Dsvvk K., **Aliev G.**, Dharmapuri G.,G. SP Swathi Putta Raju., Jagarlapoodi S. and Duddukuri G.R. Phospholipase A2: A Potential Therapeutic Target for Inflammation and Cancer (In silico, In vitro, In vivo and Clinical Approach). *Cancer Sci Ther.* 2015, Volume 7(7) 250-253 (2015) - 251. <http://dx.doi.org/10.4172/1948-5956.1000357>
  152. \*\*\*\*\*Makhaeva G.F., Lushchekina S.V., Boltneva N.P., Sokolov V.B., Grigoriev V.V., Serebryakova O.G., Vikhareva E.A., Aksinenko A.Yu., Barreto G.E., **Aliev G.** and Bachurin S.O. Conjugates of  $\gamma$ -Carbolines and Phenothiazine as new selective inhibitors of butyrylcholinesterase and blockers of NMDA receptors for Alzheimer Disease. *Sci. Rep.* 2015, 5, 13164; doi: 10.1038/srep13164 (2015).
  153. \*\*\*\* Blach-Olszewska Z, Zaczynska E, Gustaw-Rothenberg K, Avila-Rodrigues M, Barreto GE, Leszek J, **Aliev G.** The Innate Immunity in Alzheimer Disease- Relevance to Pathogenesis and Therapy. *Current Pharmaceutical Design*, 2015; 21(25): 3582-3588.
  154. \*\*\*\*Meet Our Editorial Board Member: Gjumrakch Aliev . *CNS & Neurological Disorders - Drug Targets*, 2015, Vol. 14, No. 8 957.
  155. \*\*\*\*\*Barreto G.E., Yarkov A., Ávila-Rodriguez M., **Aliev G.** and Echeverria V. Nicotine-Derived Compounds as Therapeutic Tools Against Post-Traumatic Stress Disorder. *Current Pharmaceutical Design*, 2015; 21(25): 3589-3595.
  156. \*\*\*\*\* **Aliev G.** Daza J, Herrera AS, Del C A Esparza M., Echeverria V, Bachurin S.E. and Barreto GE. Nanoparticles as Alternate Strategies for Drug Delivery to the Alzheimer Brain: Electron Microscopy Ultrastructural Analysis. *CNS Neurol Disord Drug Targets.* 2015; 14(9): 1235-1242 [Epub ahead of print, 2015 Aug 20].
  157. \*\***Aliev G.** Meet Our Editorial Board Member: *Cardiovascular & Hematological Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry - Cardiovascular & Hematological*

Agents). 2015, VOLUME: 13, ISSUE: 2, Page: [71 - 71].  
 DOI:10.2174/187152571302151217121859 - See more at:  
<http://www.eurekaselect.com/137901/article#sthash.HkKV1QAs.dpuf>

158. \*\*\*Kosenko E.A., **Aliev G.** and Kaminsky Y.G. Relationship Between Chronic Disturbance of 2,3-Diphosphoglycerate Metabolism in Erythrocytes and Alzheimer Disease. *CNS & Neurological Disorders - Drug Targets*, 2016, 15(1), 113-123 [Epub ahead of print: Aug 20, 2015].
159. \*\*\*Neganova M., Klochkov S., Afanasieva S., Serkova T., Chudinova E., Reddy V.P., **Aliev G.** and Shevtsova E.F. Neuroprotective Effects of the Securinine-Analogs: Identification of Allomargaritarine as a Lead Compound Margarita. *CNS & Neurological Disorders - Drug Targets*, 2016, 15(1), 102-107 [Epub ahead of print: Aug 21, 2015].
160. \*\*\* Barragan-Osorio L, Giraldo G, Almeciga-Diaz CJ, **Aliev G**, Barreto GE, Gonzalez J. Computational Analysis and Functional Prediction of Ubiquitin Hypothetical Protein: A Possible Target in Parkinson Disease. *Cent Nerv Syst Agents Med Chem.* 2016, 6(6): 4-11. [Epub ahead of print: 2015 Jul 22].
161. \*\*\*\*\***Gjumrakch Aliev.** Editorial: Thematic Issue: Metabolic Disorders, Drug Development, Drug Design and Biomarkers . *Current Pharmaceutical Design*, 2016; 22(7): 765-767.
162. \*\*\*\*\*Mohd Rehan Zaheer, Anamika Gupta, Jawaid Iqbal, Qamar Zia, Akil Ahmad, Roohi, Mohammad Owais, Ali Hashlamon, Siti Hamidah Mohd Setapar, Ghulam Md Ashraf and **Gjumrakch Aliev.** Molecular mechanisms of drug photodegradation and photosensitization. *Current Pharmaceutical Design*, 2016; 22(7): 768-782.
163. \*\*\*\*\*Qamar Zia, Asim Azhar, Mohammad Amjad Kamal, **Gjumrakch Aliev**, Mohammad Owais and Ghulam Md Ashraf. Super aggregated form of Amphotericin B: a novel way to increase its therapeutic index. *Current Pharmaceutical Design*, 2016; 22(7): 792-803.
164. \*\*\*\*\*Ishfaq A. Sheikh, Zeenat Mirza, Ashraf Ali, **Gjumrakch Aliev** and Ghulam Md Ashraf. A proteomics based approach for the identification of gastric cancer related markers. *Current Pharmaceutical Design*, 2016; 22(7): 804-811.
165. \*\*\*\*\*Rodrigo E. González-Reyes, **Gjumrakch Aliev**, Marco Ávila-Rodrigues and George E. Barreto. Alterations in Glucose Metabolism on Cognition: A Possible Link Between Diabetes and Dementia. *Current Pharmaceutical Design*, 2016; 22(7): 812-818.
166. \*\*\*\*\*Ramón Cacabelos, Clara Torrellas, Lucía Fernández-Novoa and **Gjumrakch Aliev.** Neuroimmune Crosstalk in CNS Disorders: The Histamine Connection. *Current Pharmaceutical Design*, 2016; 22(7): 819-848.
167. \*\*\*\*\*Ivan Carrera, Lucia Fernandez-Novoa, **Gjumrakch Aliev**, Carmen Vigo and Ramón Cacabelos. Validating Immunotherapy in Alzheimer's Disease: The EB101 Vaccine. *Current Pharmaceutical Design*, 2016; 22(7): 849-858.
168. \*\*\*\*\*Xenia A. Glukhova, Olga V. Prusakova, Julia A. Trizna, Michael M. Zaripov, Gaida V. Afanas'eva, Anatoly S. Glukhov, Rimma A. Poltavtseva, Alexei A. Ivanov, Marco Avila-Rodriguez, George E. Barreto, **Gjumrakch Aliev** and Igor P. Beletsky. Updates on the Production of Therapeutic Antibodies Using Human Hybridoma Technique. *Current Pharmaceutical Design*, 2016; 22(7): 870-878.
169. \*\*\*\*\*Maksim L. Maksimov, Andrey A. Svistunov, Vadim V. Tarasov, Vladimir N. Chubarev, Marco Ávila-Rodriguez, George E. Barreto, Olga V. Dralova and **Gjumrakch Aliev.**

- Approaches for the Development of Drugs for Treatment of Obesity and Metabolic Syndrome. *Current Pharmaceutical Design*, 2016; 22(7): 895-903.
170. \*\*\*\*\*Siva Kumar Korada, Nagendra sastry Yarla, Anupam Bishayee, **Gjumrakch Aliev**, K Aruna Lakshmi, MK Arunasree, B.L Dananajaya and Vijendra Mishra. Can Probiotics Cure Inflammatory Bowel Diseases? *Current Pharmaceutical Design*, 2016; 22(7): 904-917.
171. \*\*\*\*\*Mikhail A. Rubtsov, Marina S. Syrkina and **Gjumrakch Aliev**. RGD-based Therapy: Principles of Selectivity. *Current Pharmaceutical Design*, 2016; 22(7): 932-952.
172. \*\*\*\*\*Cacabelos R, Reddy VP, **Aliev G.** Editorial: Neurodegeneration, Oxidative Stress, Metabolic Syndrome, Drug Design and Development: Clinical Implications. *CNS Neurol Disord Drug Targets*. 2016;15(2):126.
173. \*\*\*\*\* Arturo Solís Herrera, María del Carmen Arias Esparza, Paola Eugenia Solís Arias, Marco Ávila-Rodríguez, George Emilio Barreto, Yi Li, Sergey O. Bachurin and **Gjumrakch Aliev**. Unsuspected Intrinsic Property of Melanin to Dissociate Water Can Be Used for the Treatment of CNS Diseases. *CNS & Neurological Disorders - Drug Targets*, 2016; 15(2), 135-140.
174. \*\*\*\*\* Ramón Cacabelos, Clara Torrellas, Iván Carrera, Pablo Cacabelos, Lola Corzo, Lucía Fernández-Novoa, Iván Tellado, Juan C. Carril and **Gjumrakch Aliev**. Novel Therapeutic Strategies for Dementia. *CNS & Neurological Disorders - Drug Targets*, 2016; 15(2), 141-241.
175. \*\*\*\*\* Oscar Hidalgo Lanussa, Marco Ávila-Rodríguez, Luis Miguel García-Segura, Janneth González, Valentina Echeverria, **Gjumrakch Aliev** and George E. Barreto. Microglial dependent protective effects of neuroactive steroids. *CNS & Neurological Disorders - Drug Targets*, 2016; 15(2), 242-249.
176. \*\*\*\*\* Sandesh Chibber, Athanasios Alexiou, Mohammed Nabil Alama, George E. Barreto, **Gjumrakch Aliev** and Ghulam Md Ashraf. A synopsis on the linkage between age-related dementias and vascular disorders. *CNS & Neurological Disorders - Drug Targets*, 2016; 15(2), 250-258.
177. \*\*\*\*\*Cacabelos R, Reddy VP, **Aliev G.** Editorial: Neurodegeneration, Oxidative Stress, Metabolic Syndrome, Drug Design and Development: Clinical Implications. *CNS Neurol Disord Drug Targets*. 2016;15(2):126.
178. \*\*\*\*\* Juan C. Jurado-Coronel, Marco Ávila-Rodríguez, Valentina Echeverria, Oscar Alejandro Hidalgo, Janneth Gonzalez, **Gjumrakch Aliev** and George E. Barreto. Implication of Green Tea as a Possible Therapeutic Approach for Parkinson Disease. *CNS & Neurological Disorders - Drug Targets*, 2016, 15(3): 292-300.
179. \*\*\*\*\*Alexander L. Rusanov, Natalia G. Luzgina, George E. Barreto and **Gjumrakch Aliev**. Role of Microfluidics in Blood-Brain Barrier Permeability Cell Culture Modeling: Relevance to CNS Disorders. *CNS & Neurological Disorders - Drug Targets*, 2016, 15(3):301-309.
180. \*\*\*\*\*Taqi A. Khan, Iftekhar Hassan, Ausaf Ahmad, Asma Perveen, Shazia Aman, Saima Quddusi, Ibrahim M. Alhazza, Ghulam M. Ashraf and **Gjumrakch Aliev**. Recent updates on the dynamic association between oxidative stress and neurodegenerative disorders. *CNS & Neurological Disorders - Drug Targets*, 2016, 15(3):310-320.
181. \*\*\*\*\*Ghulam M. Ashraf, Ashraf Ali, Shams Tabrez, Syed Kashif Zaidi, Shazi Shakil, Mohammad Z. Alam, Mohammad Rehan and **Gjumrakch Aliev**. Linkage of Stress with Neuromuscular Disorders. *CNS & Neurological Disorders - Drug Targets*, 2016, 15(3):321-328.

182. \*\*\*\*\*Jerzy Leszek, George E. Barreto, Kazimierz Gąsiorowski, Euphrosyni Koutsouraki, Marco Ávila-Rodrigues, and Gjumrakch Aliev. Inflammatory Mechanisms and Oxidative Stress as Key Factors Responsible for Progression of Neurodegeneration: Role of Brain Innate Immune System. *CNS & Neurological Disorders - Drug Targets*, 2016, 15(3):329-336.
183. \*\*\*\* Ustyugov A. and **Aliev G.** Cardiovascular Drugs and Triazole Based Kinase Inhibitors as a New Strategies for the Treatment of Alzheimer Disease [**in Russian:** Использование сердечно- сосудистых препаратов и ингибиторов киназы на основе триазола — новый метод лечения болезни Альцгеймера]. *Russ. Chem. Bull.*, 2016, No: 4, pp. 1151-1159 [Известия Академии наук. Серия химическая, 2016, № 4 (ISSN: 0002 3353):1151-1159].
184. \*\*\*\* Cabezas R, Avila-Rodriguez M, Vega-Vela NE, Echeverria V, González J, Hidalgo OA, Santos AB, **Aliev G**, Barreto GE. Growth Factors and Astrocytes Metabolism: Possible Roles for Platelet Derived Growth Factor. *Medicinal Chemistry*, 12(3): 204-210. DOI: [10.2174/1573406411666151019120444](https://doi.org/10.2174/1573406411666151019120444)
185. \*\*\*\*\*Pedada SR, Yarla NS, Tambade PJ, Dhananjaya BL, Bishayee A, Arunasree KM, Philip GH, Dharmapuri G, **Aliev G**, Putta S, Rangaiah G. Synthesis of new secretory phospholipase A<sub>2</sub>-inhibitory indole containing isoxazole derivatives as anti-inflammatory and anticancer agents. *Eur J Med Chem.* 2016 Vol. 112, 13 April 2016, Pages 289-297 [Feb 10;112:289-297. doi: 10.1016/j.ejmech.2016.02.025. [Epub ahead of print]].
186. \*\*\*\*\*Perveen A., Barreto G.E., Jahan N., Wadud A., Alam Md.T., Ashraf G.Md. and **Aliev G.** Antifertility activity of Lac (*Laccifer lacca* Kerr.) in female Wistar rat model. *Immun., Endoc. & Metab. Agents in Med. Chem.*, 2016, 16, 39-48.
187. \*\*\*\*\* Yury Kaminsky, Elena Kosenko and **Gjumrakch Aliev.** Can Erythrocyte Catalase Regulate Blood Pressure? *Cardiovascular & Hematological Agents in Medicinal Chemistry.* 2016 14(1), 49-52.
188. \*\*\* Garzón D, Cabezas R, Vega N, Ávila-Rodriguez M, Gonzalez J, Gómez RM, Echeverria V, **Aliev G**, Barreto GE. Novel Approaches in Astrocyte Protection: from Experimental Methods to Computational Approaches. *J Mol Neurosci.* 2016 Apr;58(4):483-92. doi: 10.1007/s12031-016-0719-6. Epub 2016.
189. \*\*\*\*\*Echeverria V., Yarkov A. and **Aliev G.** Positive modulators of the  $\alpha 7$  nicotinic receptor against neuroinflammation and cognitive impairment in Alzheimer's disease. *Prog Neurobiol.* 2016 Jan 12. pii: S0301-0082(15)30017-4. doi: 10.1016/j.pneurobio.2016.01.002. [Epub ahead of print].
190. \*\*\*\*\* Swathi Putta, Nagendra Sastry Yarla, Eswar Kumar Kilari, Challa Surekha, **Gjumrakch Aliev**, Diwakara MB, Santosh MS, Nagendra Prasad MN, Bhadrappura Lakkappa Dhananjaya. Therapeutic Potentials of Triterpenes in Diabetes and its Associated Complications. *Curr Top Med Chem.* 2016;16(23):2532-42. DOI: <http://dx.doi.org/10.2174/1568026616666160414123343>
191. Meet Our Section Editor. Prof. Dr. Gjumrakch Aliev. *Current Pharmaceutical Biotechnology*, 2016, 17(9): 751-752. DOI: [10.2174/138920101709160606105637](https://doi.org/10.2174/138920101709160606105637), <http://benthamscience.com/journals/current-pharmaceutical-biotechnology/volume/17/issue/9/#sthash.QMFmMPx.dpuf>
192. \*\*\*\*\* Khan MF, Ansari AH, Hameedullah M, Ahmad E, Husain FM, Zia Q, Baig U, Zaheer MR, Alam MM, Khan AM, AlOthman ZA, Ahmad I, Ashraf GM, **Aliev G.** Sol-gel synthesis of thorn-like ZnO nanoparticles endorsing mechanical stirring effect and their antimicrobial activities: Potential role as nano-antibiotics. *Sci Rep.* 2016 Jun 28;6:27689. doi: 10.1038/srep27689.

193. \*\*\*\* Ustyugov A, Shevtsova E, Barreto GE, Ashraf GM, Bachurin SO, **Aliev G.** New therapeutic property of Dimebon as a neuroprotective agent. *Curr Med Chem.* 2016 Aug 4. [Epub ahead of print].
194. \*\*\*\* Leszek J, Trypka E, Koutsourak E, Michmizos D, Tarasov V.V., Ashraf GM, **Gjumrakch Aliev.** Late-life depression and Alzheimer disease: a potential synergy of the underlying mechanisms. *Curr Med Chem.* 2016 Sep 2. [Epub ahead of print].
195. \*\*\*\*\*Vadim V. Tarasov, Nikita V. Kudryashov, Vladimir N. Chubarev, Tatiana S. Kalinina, George E. Barreto, Ghulam Md Ashraf and Gjumrakch Aliev. Pharmacological aspects of neuro-immune interactions. *Current Pharmaceutical Design*, 2016 (BSP-CPD-2016-HT179-5).
196. \*\*\*\*George E. Barreto, Janneth Gonzalez, Rosa Helena Bustos, Diego A. Forero, Rosa Margarita Gómez, **Gjumrakch Aliev** and Valentina Echeverria. Approaches of the transcriptomic data analysis in astrocytes: Potential pharmacological targets. *Current Pharmaceutical Design*, 2016 (in press).
197. \*\*\*\*\* Natalia Areiza Mazo, Valentina Echeverria, Ricardo Cabezas, Marco Ávila-Rodríguez, **Gjumrakch Aliev** and George E. Barreto. Natural and synthetic compounds from fruits as protective strategies against Parkinson. *Current Pharmaceutical Design*, 2016 (in press).
198. \*\*\*Siva Kumar Korada, Nagendra Sastry Yarla, Swathi Putta, Avinash Saab Hanumakonda, B. L. Dhananjaya, Luciana Scotti, Marcus T. Scotti, Mohammad A. Kamal, Aruna Lakshmi K. and Ramakrishna Chintala, Vadim V. Tarasov, Vladimir N. Chubarev, and **Gjumrakch Aliev**, Different food safety and quality management tools to accomplish food safety. In: *Food Safety, Elsevier*, 2016 (accepted for publication).
199. \*\*\*\*\*Echeverria V., Barreto G.E., Ávila-Rodríguez M. and **Aliev G.** Role of the Vascular Endothelial Growth Factor in Alzheimer disease. *Current Alzheimer Research*, 2016 (in press).
200. \*\*\*\*\*Leszek J., Tse W.H., Zhang J., Ávila-Rodríguez M.F., Barreto G.E. and **G. Aliev** Nanotechnology for Alzheimer disease. *Current Alzheimer Res*, 2016 (in press).
201. \*\*\*Echeverria V., **Aliev G.**, Foitzick M., Ávila-Rodríguez M. and Barreto G.E. Advances in Medicinal Plants with Effects on Anxiety Behavior. *Current Medicinal Chemistry*, 2016 (in press).
202. \*\*\*\*\*Carrera I., Fernandez-Novoa L., Sampedro C., **Aliev G.** and Cacabelos. Dopaminergic neuroprotection with Atremorine in Parkinson's disease. *Current Medicinal Chemistry (BSP-CMC-2016-HT59-7, accepted)*.
203. \*\*\*\*\* Dmitrij A. Sychev, Andrey A. Svistunov, Maksim L. Maksimov, Vadim V. Tarasov, Vladimir N. Chubarev, Vitalij A. Otdelenov, Natal'ja P. Denisenko, Ghulam Md Ashraf and Gjumrakch Aliev. Study of the activity of the cytochrome P450 isoenzyme for the prediction of negative drug interaction. *Current Drug Metabolism*, 2016 (BSP-CDM-2016-HT8-6-1).
204. \*\*\*\*\* Corzo L. Rodríguez S., Alejo R., Fernández-Novoa L., **Aliev G.** and Cacabelos R. E-MHK-0103 (Mineraxin™): A Novel Nutraceutical with Biological Properties in Menopausal Conditions. *Current Drug Metabolism*, 2016 (BSP-CDM-2016-HT8-9, in press).
205. \*\*\*\*\* Konstantin P. Volcho, Sergey S. Laev, Ghulam Md Ashraf, **Gjumrakch Aliev**, and Nariman F. Salakhutdinov. Application of monoterpenoids and their derivatives for treatment of neurodegenerative diseases. *Current Medicinal Chemistry*, 2016 (BSP-CMC-2016-HT59-5, in press).



206. \*\*\*\*\* Gaşiorowski K., Brokos B., Leszek J., Ashraf G.Md. and **Aliev G.** Insulin resistance in Alzheimer disease: p53 and microRNAs as important players. *Current Topic in Medicinal Chemistry, 2016 (in press)*.
207. \*\*\*\*\* Jerzy Leszek, Elżbieta Trypka, Vadim V. Tarasov, Ghulam Md Ashraf and **Gjumrakch Aliev.** Type 3 diabetes mellitus: a novel implication of Alzheimer disease. *Current Topic in Medicinal Chemistry, 2016 (accepted)*.
208. \*\*\*\*\* Swathi Putta, Nagendra Sastry Yarla, Eswar Kumar K, Dhananjaya B.L, Mohammad A. Kamal, Challa Surekha, Luciana Scotti Vadim V. Tarasov, and **Gjumrakch Aliev.** Therapeutic potentials of anthocyanins in diabetes and associated complications. *Current Medicinal Chemistry, 2016 (BSP-CMC-2016-HT59-6: accepted)*.
209. \*\*\*\*\* Singh S. K., Barreto G.E., **Aliev G.** and Echeverria V. Ginkgo biloba as an alternative medicine in the treatment of anxiety in dementia and other psychiatric disorders. *Current Drug Metabolism, 2016, (BSP-CDM-2016-HT8-24, Accepted)*.
210. **Aliev G.** Meet the Editorial Board. *Recent Patents on CNS Drug Discovery 2016 (in press)*.
211. \*\*\*\*\* Roohi, Kulsoom Bano, Mohammed Kuddus, Mohd Rehan Zaheer, Qamar Zia, Mohd Farhan Khan, Ghulam Md Ashraf and **Gjumrakch Aliev.** Microbial Enzymatic Degradation of Biodegradable Plastics. *Current Pharmaceutical Biotechnology,, 2016 (Accepted CPB-2016-0058)*.
212. \*\*\*\*\* Sochocka M., Zwolińska K., Leszek J., Ashraf G. and Aliev G. The Possibility of an Infectious Etiology of Alzheimer Disease. *ANTIOXIDANTS & REDOX SIGNALING, 2016 (revised and conditionally accepted)*.
213. \*\*\*\*\* Rayavarapu S., Kadiri S.K., Sastry N.Y., Tadikonda R., Bishayee A., Vidavalur S. and **Aliev G.** Synthesis and anticancer activities of saccharumoside-B and its analogs in MCF-7 breast cancer cells via intrinsic pathway. *Scientific Report (SREP-15-19334B, Revised & Pending)*.
214. \*\*\*\*\* Bachurin S.O., Shevtsova E.F., Makhaeva G.F., Grigoriev V.V., Boltneva N.P., Kovaleva N.V., Lushchekina S.V., Shevtsov P.N., Neganova M.E., Redkozubova O.M., Bovina E.V., Gabrelyan A.V., Fisenko V.P., Sokolov V.B., Aksinenko A.Yu., Echeverria V., Barreto G.E. and **Aliev G.** Novel conjugates of aminoadamantanes with carbazole derivatives as potential multi-target agents for AD treatment. *Scientific Reports, 2016 (Pending: SREP-16-27823)*.
215. \*\*\*\*\* Al-Shabib N.A., Husain F.M., Ahmad F., Khan R.A., Ahmad I., Alsharaeh E., Khan M.S., Hussain A., Rehman Md.T., Yusuf M., Khan J.M., Ashraf G.Md., and **Aliev G.** Biogenic synthesis of Zinc oxide nanostructures from Nigella sativa seed: Prospective role as food packaging material inhibiting broad-spectrum quorum sensing. *Scientific Reports, 2016 (Pending: SREP-16-28277)*.
216. \*\*\* Khan M.F., Khan Mohd. F., Khan A.M., Zia Q., Ashraf G. Md. and **Aliev G.** CFD Simulation of Human Nasal Breathing Cycle. *Current Pharmaceutical Biotechnology, 2016 (CPB-2015-0104: revised & pending)*.
217. \*\*\*\*\* Oleg A. Raevsky, Azat Mukhametov, Veniamin Y. Grigorev, Reuben Jih-Ru Hwu, **Gjumrakch Aliev,** and Sergey O. Bachurin. Development of Multi-Target Computer-Aided Methodologies and their Application to Drug Design for CNS diseases. *Current Medicinal Chemistry, 2016 (BSP-CMC-2016-HT59-1: revised & pending)*.

218. \*\*\*\*\* Venugopal V Durvasula, Umadevi Parimi, Karteek Rao Amperayani, Nagendra Sastry Yarla, **Gjumrakch Aliev**, Yallappa Shiralgi and Dhananjaya BL Design and Synthesis of Peptidyl boronate Analogues as an effective Antimicrobial Agents. *Saudi Pharmaceutical Journal*, 2016 (submitted).
219. \*\*\*\*\*Diwan Israr Khan, Farzana K Beig, Zuber Ahmad, Qamar Zia, Mohammad Owais, Ghulam Md Ashraf, Asim Azhar and **Gjumrakch Aliev**. Prevalence of tuberculosis in children of recently diagnosed adult tuberculosis patients. *Journal of International Medical Research*, 2016 (Submitted: JIMR-16-0192).
220. \*\*\*\*\*Venugopal V Durvasula, Nagendra Sastry Yarla, Karteek Rao Amperayani, **Gjumrakch Aliev**, Dhananjaya B.L. and Umadevi Parimi. Design and Synthesis of Peptidyl boronate Analogues as Antimicrobial agents. *Current Medicinal Chemistry*, 2016 (submitted).
221. \*\*\*\*\*Swathi Putta, Nagendra Sastry Yarla, Eswar Kumar Kilari, Dhananjaya Bhadrappura Lakkappa, Mohammad A. Kamal, Luciana Scotti, Marcus T. Scotti, George E. Barreto, Ghulam Md Ashraf, Da-Yong Lu, and **Gjumrakch Aliev**. Protective Effect of Ethanolic Leaf Extract of *Tylophora indica* against Pancreatic and Hepatic Oxidative Stress in Streptozotocin-Induced Diabetic Rats. *Pharmaceutical Biology*, 2016 (submitted: NPHB-2016-2229).
222. \*\*\*\*\*“ Kemel A. Ghotme, George E. Barreto, Valentina Echeverria, Janneth Gonzalez, Rosa H. Bustos, Magdy Sanchez, Jerzy Leszek, Nagendra Sastry Yarla, Rosa Margarita Gómez, Ghulam Md Ashraf and **Gjumrakch Aliev**. Gliomas: new perspectives in diagnosis, treatment and prognosis. *Current Topic in Medicinal Chemistry*. 2016 (submitted).
223. \*\*\*\*\* Sahabjada Siddiqui, Qamar Zia, Mohammad Abbas, Asif Jafri, Suaib Luqman, Arshad Hussain, Mohd Serajuddin, Tabrez Jafar, Sarjeel Kaleem, Md Arshad, Ghulam Md Ashraf, and **Gjumrakch Aliev**. *Cissus quadrangularis* L. inhibit proliferation and cell cycle arrest of human cervical adenocarcinoma cell. *Scientific Reports*, 2016 (SREP-16-16545A-Z; pending).
224. \*\*\*\*\* Qamar Zia, Asim Azhar, Shadab Ahmad, Mohammad Afsar, Ziaul Hasan, Mohammad Owais, Mahfooz Alam, Shabab Akbar, Ghulam Md Ashraf, Swaleha Zubair, and **Gjumrakch Aliev**. PeMtb: a database of MHC antigenic peptide of *Mycobacterium tuberculosis*. *Current Pharmaceutical Biotechnology*, 2016 (submitted: ID CPB-2016-0066).
225. \*\*\*\* Venugopal V Durvasula, Nagendra Sastry Yarla, Karteek Rao Amperayani, **Gjumrakch Aliev**, Dhananjaya B.L., Umadevi Parimi1. Design and Synthesis of Peptidyl boronate Analogues as an effective Antimicrobial Agents. *Chemical Biology & Drug Design*, 2016 (pending, CBDD-RA-08-16-3200).
226. \*\*\*\*\* Neganova M.E., Klochkov S.G., Petrova L.N., Shevtsova E.F., Afanasieva S.V., Chudinova E.S., Fisenko V.P., Bachurin S.O., Barreto G.E., and Aliev G. Securinine derivatives as potential anti-amyloid therapeutic approach. *CNS Neurological Disorders & Drug Targets CNSNDDT* (pending: BSP-CNSNDDT-2016-391).
227. \*\*\*\*\*Mohd. Rehan Zaheer, Anamika Gupta, Jawaid Iqbal, Roohi, Qamar Zia, Mohd. Farhan Khan, Ghulam Md Ashraf and **Gjumrakch Aliev**. A pH-dependent photodecomposition of photosensitizing drug Difloxacin. *Journal of Molecular Microbiology and Biotechnology*, 2016 (Submitted, Manuscript ID: 2984).
228. \*\*\*\*\* Anamika Gupta, Mohd. Rehan Zaheer, Jawaid Iqbal, Ubaidu Rahman, Khurshid Ahmad, Dr Roohi, Qamar Zia, Mohd. Farhan Khan, Ghulam Md Ashraf and **Gjumrakch Aliev**. Singlet oxygen mediated photooxidation of phototoxic drug, Ceftizoxime and in silico molecular docking studies. *World Journal of Microbiology & Biotechnology*, 2016 (submitted: ID: WIBI-D-16-00977).

229. \*\*\*\*Swathi Putta, Nagendra Sastry Yarla, Ilaria Peluso, G.V.Reddy, Dinesh Kumar Tiwari, Priyanka Voori, Ramarao Malla, Veera Brahma Chari, Rama Sekhara Reddy D, Sarat Babu, Mastan Mannarapu, George Barretto, Da-Yong Lu, Luciana Scotti, Marcus T. Scotti, M.A.Kamal, Vadim V. Tarasov, Vladimir N. Chubarev, Gjumrakch Aliev, Anupam Bishayee. Anthocyanins: Possible role as multitarget therapeutic agents for prevention and therapy of chronic diseases. *Current Medicinal Chemistry*, 2016 (submitted).
230. \*\*\*\*\* Nemtsova M.V., Strelnikov V.V., Tanas A.S., Bykov I.I., Zaletaev D.V., Glukhov A., Kchorobrich T.V., Li Y., G.E. Barreto and **Aliev G.** Applications for a System of Gastric Cancer Molecular Genetic Markers in Surgical Practice. *Current Genomics*, 2016 (BSP-CG-2015-212, accepted).
231. \*\*\* Cacabelosa R., Torrellas C., Carril J.C., **Aliev G.** and Teijidoa O. Epigenomics and Proteomics of Brain Disorders. *Current Genomics*, 2016 (accepted).
232. \*\*\* Cacabelosa R., Torrellas C. and **Aliev G.** Epigenetics-related drug efficacy and safety: The Path to Pharmacoeugenomics. *Current Genomics*, 2016 (accepted).
233. \*\*\*\*\*Deepthi Nammi, Nagendra sastry Yarla, **Gjumrakch Aliev**, and Nageswara Rao Reddy Neelapu. In silico Analysis of Pathogenic Islands for Identification of Drug Targets in Helicobacter pylori : Therapeutic Intervention for Gastric Cancer. *Current Genomics*, 2016 (accepted).
234. \*\*\*\*\***Aliev G.** and Palacios H.H. Mitochondrial Abnormalities in Alzheimer Mice Brain is Associates with Atherosclerotic Changes in Brain Microvessels. *J. Neuropathology and Experimental Neurology* 2016 (submitted).
235. \*\*\*\*\***Aliev G.** and Palacios H.H. Ultrastructural lesions of the mitochondria as a hallmark for liver and neuronal lesions during chronic ethanol self administration in Cynomolgus monkeys. *Acta Neuropathologia*, 2016 (submitted).
236. \*\*\*\*\***Aliev G.**, Aliyev AC, Aliyev F Y, Morales L, Reddy VP, Ashraf GM and **Aliyev CA.** Oxidative Stress Induced Nitric Oxide-Dependent Mitochondrial DNA Overproliferation and Deletion in the Context of Human Malignant Brain Cancer and Colorectal Liver Tumor Metastases. *Cancer Research*, 2016 (in progress).

#### **B: Cardio- and Cerebrovascular Pathobiology, General Cell Biology, Cancer and other Research Fields:**

1. **Aliev G.** Compensatory potency of arterial endothelium after ischemia and sudden death of an organism. In: Pogorelov Y.V. (Eds.) "Compensatory Processes". Ivanovo, Russia, 1987:55-58.
2. Rekhter M.D., **Aliev G.**, Salapina O., Vyalov S., and Bauman O. Interactions of the vessel wall cells in early ontogenesis, injury and reparative regeneration. In: (Zegidashvili Y., Eds.) "Biology of the Cell". Tbilisi, Georgia, 1987; II: 874-876.
3. **Aliev G.** and Mironov A. Scanning electron microscopic analysis of rat aortic endothelium in different conditions after sudden death. In (Novikov I.I., Eds.) "Urgent Surgery of Vessels". Yaroslavl, Russia, 1988: 126-129.
4. **Aliev G.** and Mironov A. The examination of the viability of aortic endothelium after ischemia and blood recirculation. In: "The Laboratory of Animal Sciences". Moscow Pushino, 1989:325-330.

5. **Aliev G.** and Mironov A. Structure of endothelium in the thoracic and abdominal parts of the intact rat aorta at various regimens of preparation and making specimens. *Archiv Anatomy, Histology and Embryology*, 1990; 99(12): 31-36.
6. **Aliev G.** and Mironov A. Ultrastructural features of abdominal aortic endothelium in different methods of prevention after the sudden death. *Azer. Medical J.*, 1990; 5:8-17.
7. **Aliev G.** and Mironov A. Ultrastructural analysis of aortic endothelium after the sudden death. *Arkiv of Pathology*, 1991; 53:30-35.
8. **Aliev G.** and Mironov A. The quantitative criteria of aortic EC viability after ischemia and blood recirculation. In (Kataev S.I., Eds.,) "Mechanisms Damaging of the Cell and Tissue". Ivanovo State University, Ivanovo, Russia, 1990: 20-24.
9. **Aliev G.** The Atlas of Scanning Electron Microscopy of Large Vessels Endothelium (IL Laboratorio Endotheliale In Imagini). SINAX S.P.A., Farmaceutici Gruppo FIDIA, Italy. 1991: 32 PP.
10. Gassaniga P.P., and **Aliev G.** Criteri di trattamento farmacologico delle condizioni di rischio trombotico. *Neuroscienze e Invecchiamento Cerebrale*, 1991; 2(6):46-53.
11. Cirillo R., **Aliev G.**, Italiano G., and Prosdocimi M. Functional responses of hindlimb circulation in aged normal and WHHL rabbits. *Atherosclerosis*, 1992; 93:133-144.
12. Cirillo R., Salvatico E., **Aliev G.**, and Prosdocimi M. Effect of cloricromene during ischemia and reperfusion of rabbit hindlimb: evidence for an involvement of leukocytes in reperfusion-mediated tissue and vascular injury. *Journal of Cardiovascular Pharmacology*, 1992; 20:969-975.
13. \* **Aliev G.**, Cirillo R., Salvatico E., Paro M., and Prosdocimi M. Changes in vessel ultrastructure during ischaemia and reperfusion of rabbit hindlimb: Implications for therapeutical interventions. *Microvascular Research*, 1993; 46(1): 65-76.
14. \* **Aliev G.**, Mironov A., Cirillo R., Mironov A. (Jr.), Gorelova E., and Prosdocimi M. Evidence for the presence of early atherosclerotic lesions in new-born WHHL rabbits. *Atherosclerosis*, 1993; 101: 17-24.
15. Ragazzi E., Chinellato A., Pandolfo L., Frolidi G., Caparrotta L., Prosdocimi M., **Aliev G.**, and Fassina G. Atherosclerosis-related remodeling of aortic relaxation to purines in Watanabe Heritable Hyperlipidemic (WHHL) rabbits. *J. Pharmacol. & Exper. Therapeutics (JPET)*, 1993; 266(2): 1091-1096.
16. Caparrotta L., Pandolfo L., Chinellato A., Ragazzi E., Frolidi G., **Aliev G.**, and Fassina G. L-arginine does not improve endothelium-dependent relaxation in vitro Watanabe rabbit thoracic aorta. *Amino Acids*, 1993; 5: 403-411.
17. \* Chinellato A., Ragazzi E., Petrelli L., Paro M., Mironov A., and **Aliev G.** Effect of cholesterol-supplemented diet in Heritable Hyperlipidemic Yoshida rats: Functional and Morphological characterization of thoracic aorta. *Atherosclerosis*, 1994; 106: 51-63.
18. Cirillo R., **Aliev G.**, Hornby E., and Prosdocimi M. Endothelium as a therapeutical target in peripheral occlusive arterial diseases. Consideration for pharmacological interventions. *Pharmacological Research*, 1994; 29(4): 293-311.
19. \* Chinellato A., Ragazzi E., Pandolfo L., Palermo Alvano A., Frolidi G., De Biasi M., Caparrotta L.,

- Aliev G.**, and Fassina G. Functional and Morphological characterization of thoracic aorta in Yoshida rats in different ages. *J. Cardiovasc. Pharm.*, 1994; 24:216-228.
20. Salvatico E., **Aliev G.**, Novello D., and Prosdocimi M. Functional depression of isolated perfused rat heart mediated by activated leukocytes: Protective effect of Cloricromene. *J. Cardiovasc. Pharmacol.*, 1994; 24: 638-647.
21. Pandolfo L., Ragazzi E., Chinellato A., Frolidi G., Caparrotta L., **Aliev G.**, and Fassina G. Endothelial receptor defense in advanced atherosclerosis. *Polish J. Pharmacol.*, 1994; 46(4): 350-351.
22. Ragazzi E., Chinellato A., Pandolfo L., Frolidi G., Caparrotta L., **Aliev G.**, Prosdocimi M., and Fassina G. Endothelial nucleotide-mediated aorta relaxation in aged Watanabe rabbits. *J. Cardiovasc. Pharmacol.*, 1995; 26: 119-126.
23. \* **Aliev G.**, Miah S., Turmaine M., and Burnstock G. An ultrastructural and immunocytochemical study of thoracic aortic endothelium in aged Sprague-Dawley rats. *J. Submicr. Cytol. Pathol.*, 1995; 27(4): 477-490.
24. \* Sala A., **Aliev G.**, Rossoni G., Berti F., Buccellati C., Burnstock G., Folco G.C., and Maclouf J. Ultrastructural and functional changes of coronary vasculature caused by transcellular biosynthesis of sulfidopeptide leukotriens in isolated heart of rabbit. *Blood*, 1996; 87(5): 1824-1832.
25. \* **Aliev G.**, Ralevic V., and Burnstock G. Depression of endothelial nitric oxide synthase but increased expression of ET-1 immunoreactivity in rat thoracic aortic endothelium associated with long-term, but not short-term sympathectomy. *Circ. Res.*, 1996; 79: 317-323.
26. Ralevic V., **Aliev G.**, and Burnstock G. Mesenteric and Hepatic vascular reactivity in Donryu rats with and without a cholesterol-supplemented diet. *Eur. J. Pharmacol.*, 1996; 313: 221-227.
27. Shankar A., Loizidou M., **Aliev G.**, Fredericks S., Holt D., Burnstock G., and Taylor I. Raised ET-1 levels in patients with colorectal liver metastases. *British J. Surgery*, 1998, 85: 502-506.
28. \***Aliev G.**, Bodin P., and Burnstock G. Free radical generators changes inducible and endothelial nitric oxide synthase and ET-1 immunoreactivity in endothelial cells from hyperlipidemic rabbits. *Molecular Genetics and Metabolism*, 1998; 63: 191-197.
29. **Aliev G.**, Ragazzi E., Cirillo R., Bevilacqua C., Mironov A., Prosdocimi M., and Paro M. Cryodamage of the vessel wall accelerate the development of atherosclerotic lesions in the arterial vessels of Watanabe rabbits. *J. Submicr., Cytol. Pathol.*, 1998; 30(3): 417-423.
30. \* **Aliev G.** and Burnstock G. Watanabe rabbits with Heritable Hyperlipidemia: A model of Atherosclerosis. *Histology and Histopathology*, 1998; 13: 797-817.
31. **Aliev G.**, Ragazzi E., Smith M., Mironov A., and Perry G. Morphological features of regeneration of rabbit aortic endothelium after cryoinduced vascular damage. *Journal of Submicr. Cytol. & Pathol.* 1999:31(4), 495-502.
32. \* **Aliev G.**, Shi J., Perry G., Friedland R.P., and LaManna J. C. Depression of constitutive nitric oxide synthase, but increased expression of inducible nitric oxide synthase and endothelin-1 immunoreactivity in aortic endothelial cells of Donryu rats on a cholesterol-enriched diet. *The Anatomical Record*, 2000:260; 16-25.

33. \* **Aliev G.**, Smith M.A., Turmaine M., Neal M.L., Friedland R.P., Perry G., LaManna J.C., and Burnstock G. Atherosclerotic lesions are associated with increased immunoreactivity for inducible Nitric Oxide Synthase and Endothelin-1 in thoracic aortic intimal cells of hyperlipidemic Watanabe rabbits. *Experimental and Molecular Pathology*, 2001, 71, 40-54.
34. **Aliev G.**, Seyidova D., Neal M.L., Jiong Shi J., Hernandez A., Folco G., Smith M.A., Perry G., LaManna J.C., and Friedland R. P. The effect of agonists and antagonists on the morphology of non-transformed human smooth muscle cell in vitro. *Journal of Submicr. Cytol. Pathol.* 2001 V. 33, No1-2, 141-149.
35. **Aliev G.**, Seyidova D., Gasimov E.K. SEM-analysis of the mechanisms of the effect of Cloricromene on the processes of reendothelization of the aorta after cryodestruction. *Azer. Medical Journal*, 2001, 4: 25-30.
36. **Aliev G.**, Samedov SK, Seyidova DY, Mironov A, Burnstock G, LaManna JC, Smith MA, Perry G, Gasimov EK. The morphological features of the development of atherosclerosis in Watanabe heritable hyperlipidemic rabbits (WHHL). *Vita Medical Journal* 2001, 1-2:11-16.
37. \* **Aliev G.**, Smith M.A., Seyidova D., Neal M.L., Shi J., Loizidou M., Turmaine M., Perry G., Taylor I., Burnstock G., Friedland R.P., and LaManna J.C.. Increased expression of NOS and ET-1 immunoreactivity in human colorectal metastatic liver tumors is associated with selective depression of constitutive NOSs immunoreactivity in vessel endothelium. *Journal of Submicr. Cytol. & Pathol*, 2002 Vol. 34(1); 37-50.
38. **Aliev G.** Obrenovich ME., Seyidova D., Rzayev N., Aliyev A., Raina A.K., LaManna, J.C., Smith M.A. and Perry G. X-ray contrast media induce aortic endothelial damage, which can be prevented with prior heparin treatment. *J. Submicr. Cytol. & Pathol.* 2003, 35(3): 253-266.
39. **Aliev G.**, Castellani R., Peterson R., Burnstock G., Perry G., Smith M.A. Pathobiology of familial hypercholesterolaemic atherosclerosis. *J. Submicr. Cytol & Pathology*, 2004, 36(3-4):225-240.
40. \* **Aliev G.**, Obrenovich ME. Seyidova D. and J.C. de la Torre. Exploring Ischemia-induced Vascular Lesions and Potential Pharmacological Intervention Strategies. *Histology and Histopathology*, 2005:20(1):261-73.
41. **Aliev G.**, Samedov S.KH., Obrenovich M.E., Mironov A.A., Burnstock G., LaManna J.C., Smith M.A. Perry G. and Gasimov E.K. Molecular Features of the Development of atherosclerosis in Watanabe Heritable Hyperlipidemic Rabbits. *The Reports of the National Academy of Sciences of the Azerbaijan Republic*, 2006, No2 (March-April):57-66.
42. \* Palacios H., Obrenovich ME. and **Aliev G.** Functional and Morphological characteristics of aortic endothelium by using different methods of their prevention after ischemia and hypoxia. *Histology and Histopathology*. 2016, submitted.
43. \* Palacios H., Obrenovich ME. and **Aliev G.** Ultrastructural mechanisms of non-reversible damage of the aortic endothelium after acute ischemia. *Therapeutic Advances in Cardiovasc. Disease* 2016, submitted.
44. \* Palacios H., Obrenovich ME., and **Aliev G.** The qualitative and quantitative criteria of the viability of the aortic endothelium after ischemia and following blood recirculation. *Histology and Histopathology*, 2016, submitted.

**C: VINITI (All-Russian Institute of Scientific and Technical Information of the Russian Academy of**

**Science):**

45. **Aliev G.** and Mironov A. Ultrastructural mechanisms of non-reversible damage to the aortic endothelium after sudden death. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 18.05.1988; 3824 (B88):11PP.
46. **Aliev G.** Scanning Electron Microscopic characteristics of intact aortic endothelium during different methods of preparation in normal conditions. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 17.06.1988; 4767: 5PP.
47. **Aliev G.** and Mironov A. Morphological characteristics of aortic endothelium during different methods of prolonging viability after sudden death. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 1989; 7769: 12 PP.
48. **Aliev G.** and Mironov A. Injury of aortic endothelium after ischemia and blood recirculation. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 1989; 7750: 35 PP.
49. **Aliev G.**, Mironov A., and Stepanov A. Endothelial cell damage following exposure to X-ray contrast medium and methods of reduction. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 1990; 3970 (B90): 27 PP.
50. Mironov A., **Aliev G.**, and Gurkin S. SEM analysis after the cryodestruction of rabbit aortic intima. The effect of Cloricromene on reendothelization. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 1992; 1880 (B92): 10 PP.
51. Mironov A., **Aliev G.**, Rekhter M., and Gurkin S. Cryodestruction of the vessel wall accelerated the development of atherosclerotic lesions in the aorta of WHHL rabbits. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 1992; 1883 (B92): 12 PP.
52. Bedyayev E., **Aliev G.** and Mironov A. Changes of aortic endothelium after the reduction of vessel lumen. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 1993; 2885 (B93):16 PP.
53. Solnyshkov S.K. and **Aliev G.** The ultrastructural features of skin microvessels in patients with early stages of heart failure. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 1993; 2890 (B93): 15 PP.
54. Mironov A., Konkina E.A., **Aliev G.**, and Pogorelov Yu.V. The ultrastructural features of luminal surface of the coronary artery of rabbits with genetic hyperlipidemia. Reports of VINITI, Moscow, Russia (All-Russian Institute of Scientific and Technical Information of the Russian Academy of Science). 11/15/1995; N1635- B95-16 PP.

**PEER-REVIEWED PUBLISHED ABSTRACTS FROM MEETING PRESENTATIONS IN  
CHRONOLOGICAL**

**ORDER (TOTAL 216):**

1. **Aliev G.** Ultrastructural mechanisms of non-reversible injury of aortic endothelium after sudden death. In: Thesis of the Conference of Young Scientist of Ivanovo State Medical Institute, Ivanovo, Russia, 1986, Abstr. Book, 1986: 30.
2. **Aliev G.** The injury of endothelium after ischemia. In: Thesis of the Scientific Conference, Ivanovo, Russia, 1986. Abstr. Book, 1986; III: 189.
3. Rekhter M.D., Vyalov S.L., **Aliev G.**, and Salapina O.A. Intercellular interactions in injury and reparative regeneration of vascular endothelium. In: Soviet Union Conference; "The Problems of Diagnosis, Prophylactics and treatment of Heart and Vessel Diseases". Moscow, Russia, Abstr. Book, 1986: 21.
4. **Aliev G.** Morphological Analysis of aortic endothelium after the sudden death of an organism during perfusion of vessel segments. In: Thesis of Reports, Ivanovo, Russia, 1987, Abstr. Book, 1987: 25.
5. **Aliev G.**, and Voronov S. Morphological and functional analysis of rat aortic endothelium in different conditions after the sudden death of the organism. In: Thesis of Reports, Ivanovo, Russia, Abstr. Book, 1988: 36.
6. Mironov A.A., Mironov V.A., Rekhter M.D., Vyalov S.L., **Aliev G.**, and Salapina O.A. Injury and regeneration of arterial and venous endothelium. In: Thesis of Reports of the Second Congress of Anatomy Histology and Embryology of Russian Federation, Moscow, Russia, Abstr. Book, 1988: 78-79.
7. Salvatico E., Cirillo R., Paro M., **Aliev G.**, and Prosdocimi M. Biochemical and physiological changes of peripheral ischemia and reperfusion in the rabbit. In: The 1991 FASEB Meeting. The FASEB J., 1991; II (5): A1277.
8. Cirillo R., Salvatico E., **Aliev G.**, Paro M., and Prosdocimi M. Effetto del Cloricromene in un modello di ischemia periferica: Un possibile effetto inibitorio dell' attivazione leucocitaria. *Minerva Angiologia*, 1991; 2: 37.
9. **Aliev G.**, Cirillo R., Salvatico E., Paro M., and Prosdocimi M. Scanning Electron Microscopy (SEM) studies of microcirculation in skeletal muscle after ischemia and reperfusion in the rabbit. In: 9<sup>th</sup> International Congress of Thrombosis, Amsterdam, the Netherlands. *Thrombosis and Homeostasis*, 1991; 65(6): 1356.
10. **Aliev G.**, Bedyayev E., and Mironov A. Interaction between endothelial and blood cells in the arterial wall after chronic stenosis in the rat. In: 9<sup>th</sup> International Cong. Thrombosis. Amsterdam, the Netherlands. *Thrombosis and Homeostasis*, 1991; 65(6): 1086.
11. Paro M., Cirillo R., Salvatico E., **Aliev G.**, Prosdocimi M., Solda P., and Pantaleo E. Vascular Hemodynamic impedance and cardiac out-put in genetic model of atherosclerosis (WHHL rabbits). In: 9<sup>th</sup> International Symposium of Atherosclerosis, Chicago, Illinois, 6-11 October, 1991. Abstr. Book, 1991: 2125.
12. **Aliev G.**, Cirillo R., Paro M., Prosdocimi M., and Mironov A. Three-dimensional characteristics of intimal surface in newborn WHHL rabbits. In: 9<sup>th</sup> International Symposium of Atherosclerosis, Chicago, Illinois, 6-11 October, 1991. Abstr. Book, 1991: 138.
13. **Aliev G.**, Cirillo R., Paro M., Prosdocimi M., and Mironov A. Three-dimensional analysis of microvascular endothelial cells by mean of scanning electron microscopy. In: XYIII Italian National Congress of Electron Microscopy, 24-28 September, 1991. Padova, Italy. Abstr. Book of Padova University, 1991: 71-72.



14. **Aliev G.** and Mironov A. The effect of contrast medium on endothelial morphology. In: International Symposia. "BIOTECH" 1991 (Biotechnology of Growth Factors; Vascular and Nervous System), Milan Italy. May, 1991. Abstr. Book, 1991: 108.
15. **Aliev G.**, Cirillo R., Salvatico E., Paro M., Prosdocimi M., and Mironov A. Morphological analysis of peripheral arteries and hindlimb microcirculation in aged normal and WHHL rabbits. In: 64<sup>th</sup> Scientific Session of American Heart Association, 1991: 89.
16. Cirillo R., **Aliev G.**, Italiano G., and Prosdocimi M. Does the lack of Bradykinin effect been early marker of the development of atherosclerosis in peripheral vessels of WHHL rabbits? In: 64th Scientific Session of American Heart Ass. 1991: 2125.
17. Paro M., Cirillo R., Salvatico E., **Aliev G.**, and Prosdocimi M. Vascular Hemodynamic impedance (Zc) and cardiac output (CO) in aged WHHL rabbits. Pharmacological characterization. In: 64th Scientific Session of AHA, 1991: 2179.
18. Mironov A., Mironov V., Rekhter M., **Aliev G.**, Vyalov S., and Bannykh S. Standard area freeze denudation of the rat aortic endothelium: Quantitative in vivo assay of endothelial cell migration and proliferation. In: IX Arbeitstagung der Anatomischen Gesellschaft. Wurzburg, Germany. 2-4 October, 1991. Abstr. Book 1991: 20.
19. Paro M., Cirillo R., Salvatico E., **Aliev G.**, and Prosdocimi M. Vascular Hemodynamic impedance and cardiac output in aged WHHL rabbits. Pharmacological characterization. In: Scientific Session of American Heart Association: Scientific Conference on Functional and Structural Mechanisms of Vascular Control". Snowbird Conf. Center (Snowbird, Utah, USA. January 29-Febr. 01 1992. Abstr. Book, 1992: 40.
20. Salvatico E., Cirillo R., Paro M., Siani G., **Aliev G.**, and Prosdocimi M. Vascular and muscle alterations in a rabbit model of peripheral ischemia-reperfusion. In: 2<sup>nd</sup> International Symposium on Endothelium-Derived Vasoactive Factors, Basel, April 22-25, 1992. J. Vascular Research, 1992; 29(2): 193-194.
21. Paro M., Cirillo R., **Aliev G.**, Prosdocimi M., Solda P., Perlini S., and Bernardi L. Vascular Hemodynamic impedance and cardiac out-put in aged WHHL rabbits: A Pharmacological characterization. In: 13 Annual European Conference of Vascular Biology. Venice, Italy, July 10-14, 1992. Abstr. Book, 1992: 125.
22. Salvatico E., **Aliev G.**, Zatta A., Paro M., and Prosdocimi M. Cloricromene attenuate PMN-mediated myocardial impaired in isolated perfused rat heart. In: 65<sup>th</sup> Scientific Session American Heart Ass. November 16-19, 1992, New Orleans, St Louis, 1992: 126575.
23. Fassina G., Dorigo P., Puglisis L., **Aliev G.**, Mironov A., Chinellato A., and Ragazzi E. Functional and morphological variations in aorta of genetically hyperlipidemic YOS rats. In: 65th Scientific Session of American Heart Association, November 16-19, 1992, New Orleans, St Louis, 1992: 119728.
24. Chinellato A., Ragazzi E., Pandolfo L., Frolidi G., **Aliev G.**, Caparrotta L., and Fassina G. Mechanisms of unimpaired ATP-induced aortic relaxation in WHHL rabbits. In: 65th Scientific Session of American Heart Association, November 16-19, 1992, New Orleans, St Louis, 1992: 119720.
25. **Aliev G.**, Mironov A., Mironov A (Jr.), Chinellato A., Pandolfo L., Ragazzi E., Caparrotta L., and Fassina G. Morphological alterations of arterial vessels in Pittsburg Yoshida rats with Heritable Hypercholesterolemia. In: Third Biennial Meeting in Basic Cardiovascular Biology, November 5-8, 1992. Abstr. Book, 1992: 258.

26. **Aliev G.**, Mironov A., Mironov A (Jr.), Cirillo R., and Prosdocimi M. Atherosclerotic lesions in aorta of Watanabe Heritable Hyperlipidemic (WHHL) rabbits are formed in embryogenesis. In: Third Biennial Meeting in Basic Cardiovascular Biology, November 5-8, 1992. Abstr. Book, 1992: 250.
27. Prosdocimi M., **Aliev G.**, and Salvatico E. Cloricromene inhibits leukocyte-mediated dysfunction in rat isolated heart. In: FASEB "Experimental Biology", 1993. New Orleans Louisiana, March 28-April 01, 1993. The FASEB J., 1993: (1); I: A345:1997.
28. Chinellato A., Ragazzi E., Pandolfo L., Frolidi G., Caparrotta L., **Aliev G.**, Mironov A., and Fassina G. Serum lipids, functional and morphological characterization of thoracic aorta in genetic cholesterol-fed Heritable Hyperlipidemic Yoshida rats. In: International Conference HDL-Cholesterol and triglycerides: Role in Coronary Heart Disease and Laboratory Measurements, Washington DC. April 2-3, 1993. Abstract Book, 1993:105.
29. Pandolfo L., Chinellato A., Ragazzi E., Frolidi G., Caparrotta L., **Aliev G.**, and Fassina G. Protective role of HDL on atherogenesis in Heritable Hyperlipidemic Yoshida rats. Comparison with Heritable Hyperlipidemic Watanabe rabbits. In: International Conference HDL-Cholesterol and triglycerides: Role in Coronary Heart Disease and Laboratory Measurements, Washington DC. April 2-3, 1993. Abstract Book, 1993:107.
30. Chinellato A., Ragazzi E., **Aliev G.**, Pandolfo L., Frolidi G., Caparrotta L., and Fassina G. Functional and morphological characterization of thoracic aorta in a rat model of mixed (exogenous and endogenous) Hyperlipidemia. In: 62<sup>nd</sup> European Ath. Soc. Congress, Jerusalem, Israel, September 5-9, 1993. Abstract Book, 1993: 56.
31. Fassina G., Ragazzi E., Chinellato A., Pandolfo L., Frolidi G., **Aliev G.**, and Caparrotta L. Mechanism of unimpaired endothelial ATP-induced aortic relaxation in isolated aorta from hypercholesterolaemic rabbits. In: 5<sup>th</sup> Join Meeting Between the British and Italian Societies of Pharmacology, September 13-16, 1993, Rome, Italy. British J. Pharmacology, VIII (Proceeding Suppl): 271P, 1994.
32. Mironov A. (Jr.), **Aliev G.**, and Mironov A. The Morphological features of coronary arteries in Watanabe Heritable (WHHL) rabbits and Yoshida Hyperlipidemic rats. In: 3<sup>rd</sup> International Young Cardiology Days. November 17-19, 1993, Istanbul- Turkey. Abstract Book, 1993, P.43.
33. **Aliev G.**, Mironov A.A., Bannykh S.I., Mironov A. (Jr.), Cirillo R., Paro M., Salvatico E., and Prosdocimi M. Age-dependent pathology of vascular wall in WHHL rabbits: SEM and TEM studies. In: International Congress of Angiology, Paris, 15-18 May, 1992. Abstract Book, 1992, PP. 13-15.
34. Vigano T., Acconazzo M.R., Hernandez A., Galbait E., Giovanazzi S., Folco G.C., **Aliev G.**, Sanlinelli E., and Nicosia S. LTD<sub>4</sub> induced cytosolic Ca<sup>2+</sup> changes and contraction in cultured human bronchial smooth muscle cells. In: 9<sup>th</sup> International Conference on Prostaglandin's and Related Compounds, Florence, Italy, June 6-10, 1994. Abstract Book, 1994: 114.
35. **Aliev G.**, Bodin P., Mironov A., and Burnstock G. Impaired constitutive NOS activity by endogenous and exogenous free radicals in endothelial cells (EC) from Watanabe Heritable Hyperlipidemic (WHHL) rabbits. Protective effect of Morin. In: ECBO Meeting, 5-8 April, 1995. Germany. European Journal of Cell Biology, 1995; S: P.213: Abstract 665.
36. **Aliev G.** and Burnstock G. Distribution of constitutive and inducible NOS and ET-1 immunoreactivity in thoracic aortic endothelium in Watanabe heritable Hyperlipidemic (WHHL) rabbits. In: 64<sup>th</sup> Congress of the European Atherosclerosis Society, Utrecht, The Netherlands, June 10-13, 1995. Atherosclerosis, 1995:115; S61: P225.

37. **Aliev G.**, Pollock J., Mironov A., and Burnstock G. Distribution of Endothelial and Macrophage specific NOS and ET-1 immunoreactivity in human aortic intima. In: 64th Congress of the European Atherosclerosis Society, Utrecht, The Netherlands, June 10-13, 1995. *Atherosclerosis*, 1995; 115; S61: P224.
38. **Aliev G.**, Bodin P., Mironov A., and Burnstock G. Impaired constitutive NOS activity by endogenous and exogenous free radicals in endothelial cells (EC) from Watanabe Heritable Hyperlipidemic (WHHL) rabbits. Protective effect of Morin. In: 64<sup>th</sup> Congress of the European Atherosclerosis Society, Utrecht, The Netherlands, June 10-13, 1995. *Atherosclerosis*, 1995; 115; S61: P4; 209.
39. Vigano T., Accomazzo M.R., Hernandez A., Galbiati E., **Aliev G.**, Nicosia S., and Folco G.C. Contraction and cytosolic calcium in human bronchial smooth muscle cells in culture. In: First European Congress of Pharmacology, Milan, June 16-19, 1995. *Pharmacological Res.*, 1995; 31: Suppl., P.358.
40. Mironov A., **Aliev G.**, and Pogorelov Yu.V. The Ultrastructural Mechanisms of the atherosclerotic lesions on the WHHL rabbits arterial vessels in the regions of unstable Hemodynamic tensions. In: Union Symposium "Lipoprotein and Atherosclerosis". November 1995, Sankt-Petersburg, Abstract Book,, Russia, 1995, P.65.
41. Shankar A., **Aliev G.**, Loizidou M., Fredericks S., Holt D., Boulos P.B., Burnstock G., and Taylor I. Elevated ET-1 levels in patients with colorectal liver metastases. In: Surgical Research Society Meeting of Great Britain. June, 1996. *British J. Surgery*, 1996; 83: 1628.
42. Smith M.A., **Aliev G.**, Nunomura A., and Perry G. Mitochondria abnormalities and metabolic dysfunction in Alzheimer's disease. In: Oxygen Club of California 1999 World Congress. Platform Presentation. *Abstr. Book*, 1999, P.82.
43. **Aliev G.**, Smith M.A., Vinters H., Johnson A.B., Nunomura A., and Perry G. Mitochondria Abnormalities mark vulnerable neurons in Alzheimer disease. In: The Annual Meeting of the Am. Ass. Neuropathologist. Portland, OR, June 17-20, 1999, Platform Presentation. *Journal of Neuropathology and Experimental Neurology*, 1999; 58: 511.
44. Perry G, Nunomura A, Takeda A, Russell RL, **Aliev G**, Raina AK, Smith MA. Looking for death in all the wrong places: apoptosis in Alzheimer disease. *Int. Soc. Neurochem Symposia. on Neuronal Apoptosis*, p. 31, 1999. Platform Presentation.
45. Shi J., Perry G., **Aliev G.**, Smith M.A., and Friedland R.P. Basic fibroblast growth factor and serum amyloid P component binding to amyloid deposits in a transgenic animal model overexpression beta-amyloid. Evidence for integrity of the blood-brain barrier. *Society for Neuroscience Abstracts* 1999; 25:1860.
46. Perry G., **Aliev G.**, Nunomura A., and Smith M.A. Mitochondria abnormalities and metabolic dysfunction in Alzheimer disease. In: 6<sup>th</sup> Meeting of the Portuguese Society for Neuroscience, p. 33, 1999. Platform Presentation.
47. Perry G, **Aliev G**, Nunomura A, Smith MA. Metabolic dysfunction is the source of oxidative damage in Alzheimer disease. In: 4<sup>th</sup> International Symposium on Medicinal Chemistry of Neurodegenerative Diseases, p. 61, 2000. Platform Presentation.
48. **Aliev G.**, Shi J., LaManna J.C., Friedland R.P., and Lamb B.T. Mitochondria Abnormalities hallmark vulnerable neurons in APP YAC transgenic mice. In: World Alzheimer Congress 2000, Washington D.C. *Neurobiology of Aging*, V.21:1S, S 267, Poster # 1222, 2000.

49. **Aliev G.**, Shi J., LaManna J.C., Lamb B.T., and Friedland R.P. Atherosclerotic-like changes of the wall of cerebral microvessels in transgenic mice overexpressing amyloid  $\beta$ . In: World Alzheimer Congress 2000, Washington DC. *Neurobiology of Aging* 21:15, P. 1224, Page 267, 2000.
50. Perry G., Hirai K., **Aliev G.**, Nunomura A., Siedlak S.L. and Smith M.A. Mitochondria abnormalities in Alzheimer Disease. In: World Alzheimer Congress 2000, Washington DC (Platform Presentation), *Neurobiology of Aging*, 21:15, S213, P. 969, 2000, Page 213.
51. **Aliev G.**, J. Shi, G. Perry, B. T. Lamb, J. C. LaManna, and R. P. Friedland. Neuronal Mitochondrial Abnormalities In Yeast Artificial Chromosome (YAC) Transgenic Mice Overexpressing Amyloid Precursor Protein (APP). In: Society for Neuroscience Abstracts 2000, 30(1): 26; 301.4. Platform Presentation.
52. Shi J., Perry G., Berridge M. S., **Aliev G.**, Smith M. A., LaManna J. C., and Friedland R. P. Labeling of cerebral amyloid  $\beta$  deposits in vivo using nasally administered basic fibroblast growth factor. *Society for Neuroscience Abstracts* 2000, 30(1):26; 110.7. Platform Presentation.
53. Perry G., Hirai K., Nunomura A., **Aliev G.**, Siedlak S.L., and Smith M.A. Oxidative stress and mitochondrial abnormalities in Alzheimer Disease. In: *Brain Pathology*, 2000:10; 275. Platform Presentation.
54. Perry G., **Aliev G.**, Nunomura A., and Smith M.A. The source of oxidative damage in Alzheimer' Disease. In: First International Conference; *Metals and Brain*, 2000, P.37.
55. Perry G., Atwood C.S., Sayre L.M., Nunomura A., **Aliev G.**, Hirai K., and Smith M.A. Redox active Metals play a key role in modulating neuronal oxidative balance. In: First International Conference; *Metals and Brain*, 2000, P.137.
56. Smith M.A., Nunomura A., Sayre L.M., Rottkamp C.A., Zhu X., Raina A.K., Hirai K., Friedland R.P., Shi J., **Aliev G.**, Wataya T., Scimohama S., Atwood C.S., and Perry G. Fundamental Role of oxidative stress and stressors in Alzheimer disease. In: *Dementia*, 14:232 (2000). Platform Presentation.
57. Perry G, Nunomura A., Friedlich A., Boswell M.V., Brazdil L., Jones P.K., Rottkamp C.A., Zhu X., Raina A.K., Hirai K., Friedland R.P., Shi J., **Aliev G.**, Cash A., Russell R.L., Wataya T., Scimohama S., Atwood C.S., and Smith M.A. Factors Controlling Oxidative Damage in Alzheimer Disease: Metals and Mitochondria. In: *Society of Free Radical Research International*, 2000, P. 57; 021-1, (2000). Platform Presentation.
58. Perry G., **Aliev G.**, Nunomura A., and Smith M.A. The Source of oxidative damage in Alzheimer Disease. In: *Journal of Alzheimer's disease*, 2: 336-337, 2000.
59. Perry G., Atwood C.S., Sayre L.M., Nunomura A., **Aliev G.**, Hirai K., and Smith M.A. Redox active metals play a key role in modulating neuronal oxidative damage. In: *Journal of Alzheimer's Disease*, 2: 329, 2000. Platform Presentation.
60. Smith M.A., Atwood C.S., Sayre L.M., Nunomura A., **Aliev G.**, Hirai K., and Perry G. Metal-catalyzed redox chemistry underlies oxidative damage in Alzheimer disease. In: *Workshop on Copper and Prion Disease*, P.20, 2001.
61. **Aliev G.**, Perry G., Lamb B.T., Seyidova D., Neal M.L., Siedlak S.L., LaManna J.C., Smith M.A., and Friedland R.P. Aged YAC A $\beta$ PP transgenic mice develop atherosclerotic lesions and mitochondria DNA deletions in brain microvessels without exogenous cholesterol

- supplementation. In: Society for Neuroscience Abstracts 2001; 752.12.
62. Gasimov E.K., Perry G., and **Aliev G.** The effect of experimental edema on the permeability of microvessels of the sciatic nerve. In: Society for Neuroscience Abstracts 2001; P.561.6.
  63. Perry G, Hirai K, Nunomura A, **Aliev G**, Siedlak SL, Smith MA. Abnormalities in oxidative metabolism in Alzheimer's disease. *J. Neurochem* 78 (Suppl 1):103, 2001.
  64. **Aliev G.**, G. Perry, D. Seyidova, B.T. Lamb, M.L. Neal, S.L. Siedlak, M.A. Smith, J. LaManna, and R.P. Friedland. Aged YAC ABPP Transgenic Mice Develop Atherosclerotic Lesions and Mitochondrial DNA Deletions in Brain Microvessels. In: Third World Congress on Vascular factors in Alzheimer's Disease. Platform Presentation (Kyoto, Japan, April 7-10, 2002). Abstract Book, 2002, P.102.
  65. **Aliev G.** Mitochondrial abnormalities are the central target for Alzheimer's disease and Alzheimer's disease-like pathology: Recent advances. In: 8<sup>th</sup> Annual Canine Cognition, Aging, and Neuropathology Conference. La Quinta Cultural Center at the Los Poblanos Inn, Albuquerque, New Mexico, June 3-4, 2002. Platform Presentation.
  66. **Aliev G.**, G. Perry, D. Seyidova, B.T. Lamb, M.L. Neal, S.L. Siedlak, M.A. Smith, J. LaManna, and R.P. Friedland. The Role of Mitochondria Failure in the Development of AD-like Pathology in an Aged Transgenic Mouse Model of AD. In: 8th International Conference on Alzheimer's Disease and Related Disorders (July 20-25, 2002, Stockholm, Sweden). Platform Presentation. *Neurobiology of Aging*, 2002, Vol. 23:No. 1S: S414; PP-1525.
  67. Shi J., Perry G., Berridge M. S., **Aliev G.**, Smith M. A., LaManna J. C., and Friedland R.P.. In Vivo labeling of cerebral amyloid  $\beta$  deposits using intranasal bFGF and SAP in a transgenic mouse model. In: 8th International Conference on Alzheimer's disease and Related Disorders (July 20-25, 2002, Stockholm, Sweden). Platform Presentation. *Neurobiology of Aging*, 2002, Vol. 23:No. 1S: S276; PP-1032.
  68. **Aliev G.**, D. Seyidova, B.T. Lamb, M.L. Neal, S.L. Siedlak, M.A. Smith, J. LaManna, E. Head, G. Perry and Cotman C.W. The role of mitochondria failure in the development of AD-like pathology in an aged Tg mouse model of AD. In: Soc. for Neuroscience, 2002. P. 778.6.
  69. Seyidova D., G. Perry, B.T. Lamb, M.L. Neal, S.L. Siedlak, M.A. Smith, J. LaManna, E. Head, C.W. Cotman, and **Aliev G.** The role of mitochondrial DNA deletions in the development of Alzheimer's -like pathology in an aged transgenic mouse model of AD. In: Society for Neuroscience, 2002. P.621.10 (Platform Presentation).
  70. Shi J., Seyidova D., G. Perry, B.T. Lamb, M.L. Neal, S.L. Siedlak, M.A. Smith, J. LaManna, Friedland R.P., and **Aliev G.** Neuronal mitochondria abnormalities in a transgenic mouse model overexpressing amyloid beta. In: Society for Neuroscience, 2002. P. 295.20.
  71. Perry G., Zhu X., **Aliev G.**, Avila J., Atwood C.S., Nunomura A., and Smith M.A. Oxidative Stress, a Mediator of Alzheimer Disease. In: International Conference on Cell and Molecular Biology of Alzheimer Disease: Abstract Book, 2002, P.5.
  72. **Aliev, G.**, Seyidova, D., Lamb, B.T., Smith, M.A., Perry, G. Atherosclerotic lesions and mitochondrial DNA deletions in brain microvessels as a central target for the development of human AD and AD-like pathology in aged transgenic mice. In: Abstract Book of 6<sup>th</sup> International Conference on Stroke and 3<sup>rd</sup> Conference of the Mediterranean Stroke Society, Monte Carlo, Monaco, March 12-15, 2003). Platform Presentation. PP. 3-4.

73. LaManna J.C., K. Xu, M. A. Puchowicz, K. Radhakrishnan, D. Seyidova, J. Shi, **Aliev G.** and R.P. Friedland. Age-dependent features of cerebral blood flow in APOE-deficient mice. In: The Second International Conference on Cerebral Amyloid Angiopathy (CAA). December 4-6, 2002. Newcastle Upon Tyne, United Kingdom. Abstract Book, 2002, P.8.
74. **Aliev G.**, Lamb B.T., Smith M.A. and Perry G. Atherosclerotic Lesions and Mitochondrial DNA Deletions in Brain Microcirculatory Systems as a Central Target for the Development of Human AD and AD-Like Pathology in Aged Transgenic Mice. The 7<sup>th</sup> Congress of the European Federation of Neurological Societies, Helsinki, Finland (August 31-September 02, 2003). 2003:A883.00
75. **Aliev G.**, Smith M.A. and Perry G. Vascular Hypoperfusion, Mitochondria Failure and Oxidative Stress in Alzheimer's disease. In: The First International Congress of the International Society for Vascular Behavioral and Cognitive Disorders (VAS-COG), Goteborg, Sweden, 28-31 August 2003. Platform Presentation. P.21, 2003.
76. Perry G., D. Seyidova, B.T. Lamb, Smith M.A. and **Aliev G.** Are Mitochondria the Central Target for the Development of Alzheimer Disease and AD-Like Pathology in Aged Transgenic Mice? In: United Mitochondrial Disease Foundation Symposia, 2003 (Platform Presentation). In: Mitochondria, 2003, P. 27.
77. **Aliev G.** and Burnstock G. Increased expression of NOS and ET-1 immunoreactivity in human colorectal metastatic liver tumors and metastatic brain tumor but not benign brain tumor is associated with selective depression of constitutive NOS immunoreactivity in vessel endothelium: New Target for the Drug Treatment? Selected Platform Presentation. Development and Strategies for News Cancer Drug (San Diego, October, 2003).
78. Liu J. E., E. Head, D. Seyidova, M.A. Smith, C. W. Cotman, G. Perry, **Aliev G.** and Ames B.N.. Age-Associated neurodegeneration and Mitochondrial Decay: effects of mitochondrial metabolites acetyl-L-Carnitine and R-Lipoic acid in old rats. In: Society Neuroscience Annual Meeting. Program No. 874.10 (New Orleans, 2003).
79. **Aliev G.**, M.A. Smith, G. Perry and G. Burnstock. Increased expression of NOS and ET-1 immunoreactivity in human colorectal metastatic liver tumors and metastatic brain tumors but not benign tumor is associated with selective depression of constitutive NOS immunoreactivity in vessel endothelium: New Target for the Drug Treatment? In: 8<sup>th</sup> Inter Conf on Endothelin, November 23-26, 2003, Tsukuba, Japan. P. 100.
80. **Aliev G.**, M.A. Smith, G. Perry and G. Burnstock. Atherosclerotic Lesions are Associated with Increased Immunoreactivity for inducible NOS and ET-1 in Thoracic Aortic Intimal Cells of Hyperlipidemic Watanabe Rabbits. In: 8<sup>th</sup> International Conference on Endothelin, November 23-26, 2003, Tsukuba, Japan. P.61.
81. **Aliev G.**, M.A. Smith and G. Perry G. Hypoperfusion, Mitochondria Failure, Oxidative Stress and Alzheimer Disease. Plenary Lectures. In: "XI International Symposium on Stroke and Lipoprotein Abstract Book, Martin Slovak Republic, 2003: pp. 3.
82. Perry G, Siedlak SL, de la Torre JC, **Aliev G**, Smith MA. Vascular and metabolic abnormalities in Alzheimer disease. 3<sup>rd</sup> Inter. Congress on Vasc. Dementia, p. 31, 2003.
83. **Aliev G.**, Perry G. J. Liu, M.E. Obrenovich, M.A. Smith, B. N. Ames and J.C. de la Torre. The primary pathogenic role of vascular hypoperfusion, mitochondria failure and oxidative stress in Alzheimer's disease. Restorative Neurology and Neuroscience, 21 (5-6): 263, 2003. In: International Symposia "Brain Aging and AD: Neurological Restoration". Havana, Cuba, February 24-27, 2004.

84. de la Torre J.C., Emmerling M.R., Stefano G.B. and **Aliev G.** A rat model of MCI upregulates nitric oxide and precedes memory loss and Abeta 1 - 40 accumulations after chronic brain hypoperfusion. *Restorative Neurology and Neuroscience*, 21 (5-6): 263, 2003. In: International Symposia "Brain Aging and AD: Neurological Restoration". Havana, Cuba, February 24-27, 2004.
85. Smith M.A., Zhu X., Casadesus G., **Aliev G.**, Ogawa O., Nunomura A., Takeda A., Joseph J.A., Peterson R.B. and Perry G. Alzheimer Disease: Causes, Consequences, and Surprises. *Biogerontology* 4 (Suppl 1): 88-89, 2003.
86. Perry G., Cash A.D., **Aliev G.**, Siedlak S.L., Raina A.K., Nunomura A., Vinters H.V., Johnson A.B., Castellani R.J. and Smith M.A. Microtubule reduction found in Alzheimer disease and aging is independent of TAU abnormalities. In: Annual Meeting of American Neuropathology Society. *J. Neuropathology & Experimental Neurology* 62: 582, 2003.
87. **Aliev G.**, Seyidova D., Smith M.A., Perry G. and de la Torre J.C. Vascular hypoperfusion and mitochondria abnormality induce oxidative stress that appeared to be a key factor for the development of Alzheimer's disease. In: XIII International Vascular Biology Meeting, 06/1-5, 2004 in Toronto, Canada. *Cardiovasc. Pathol.* V.13 (3):26-27, 2004.
88. de la Torre J.C. and **Aliev G.** Vascular Nitric Oxide: A Key Molecule in the pathogenesis of Alzheimer's disease? In: 9<sup>th</sup> International Conference on Alzheimer's disease and Related Disorders, July 17-22, 2004, Philadelphia, USA. *Neurobiology of Aging* 25:S2; S3-04-02, Page S50, 2004.
89. **Aliev G.**, S. Siedlak, M. Smith, A. Aliyev, N. Rzayev, J. de la Torre, G. Perry. Vascular and metabolic failure in Alzheimer's disease. In: 9<sup>th</sup> International Conference on Alzheimer's disease and Related Disorders, July 17-22, 2004, Philadelphia, USA. *Neurobiology of Aging* 25:S2; 03-04-07, Page S61, 2004.
90. Rzayev N., Burnstock G. and **Aliev G.** The Development of Atherosclerotic Lesions in Watanabe Heritable Hyperlipidemic Rabbits is Associated with the Overexpression of Endothelin-1 Immunoreactivity. In: Proceedings of the 11<sup>th</sup> Int. Symp., "New Frontiers of Neurochemistry and Neurophysics on Diagnosis and Treat. Neurol. Dis." in Memory of Vincenzo Lombardi (Martin, Slovakia, December 4-7, 2003). *J. Alzheimer's Disease*, 2004 V.6: 562-563.
91. **Aliev G.**, Obrenovich M. E., Smith M.A., de la Torre J.C. and Perry G. Hypoperfusion, mitochondria failure, oxidative stress and Alzheimer disease. In: Proceedings of the 11<sup>th</sup> International Symposium, "New Frontiers of Neurochemistry and Neurophysics on Diagnosis & Treatment of Neurological Diseases" with participation of the Inter. Society for Neurochemistry (ISN), JAD, 2004 V.6:548-549.
92. Aliyev A., Burnstock G. and **Aliev G.** Age-Dependent Features of Nitric Oxide Synthase Immunoreactivity During the Development and Progression of Atherosclerosis in Watanabe Hyperlipidemic Rabbits. In: Proceedings of the 11<sup>th</sup> International Symposium. *J. Alzheimer's Disease*, 2004 V.6 (5):549-550.
93. Cash A.D., **Aliev G.**, Siedlak S.L., Raina A.K., Nunomura A., Vinters H.V., Johnson A.B., Castellani R.J. Smith M.A. and Perry G. Microtubule diminution in Alzheimer disease and aging is independent of abnormalities in TAU. In: 2004 Annual Irwin H. Lepow Student Research Day Meeting, CWRU. In: Irwin H. Lepow Student Research Day, P20:2004.
94. Seyidova D., Siedlak S.L., Obrenovich M.E., Head E., Cotman C.W., Liu J.N., Ames B.N., Smith M.A., Perry G., de la Torre J.C., and **G. Aliev.** The Mitochondria DNA Deletion, Increased in

- Aged Dog Brain, Can Be Diminished Following Administration of Supplemental Antioxidants and Mitochondrial Cofactors. In: Society Neuroscience Annual Meeting. Program No. 1017.9 (San Diego 2004).
95. Perry G., Honda K., Liu Q., Moreira P.I., **Aliev G.**, Siedlak S.L., Harris P.L., Zhu X. and Smith M.A. Homeostatic regulation of chronic oxidative insult in neurodegenerative diseases. *Journal of Neurochemistry*, 2004; 90 (Suppl 1):108.
  96. Perry G., Harris P.L.R., **Aliev G.**, Sayre L.M., Liu Q., Honda K. and Smith M.A. Oxidative stress and neurodegeneration. Abstract Book: In: 8<sup>th</sup> International Symposium on the Maillard Reaction, 2004: P 37.
  97. Perry G., **Aliev G.**, Zhu X., Smith M.A. Oxidative Stress in Alzheimer disease: Consequence or Initiator of Pathogenesis. Abstract Book: In: Korean Conference on Innovative Science and Technology, 2004: [KCIST], p. 38a.
  98. **Aliev G.** and Burnstock G. The Role of Nitric Oxide and ET-1 in the Pathobiology of Cardiovascular Diseases, Tumors and Neurodegeneration: New Target for the Drug Treatment? In: 7<sup>th</sup> International Conference of Anticancer Research, Corfu, Greece, 25-30 October, 2004, Plenary Lecture. *Anticancer Research* 09/2004; 24(5D):3419-3419.
  99. Perry G, Honda K, Liu Q, **Aliev G**, Siedlak SL, Harris PLR, Zhu X, Smith MA. Stress and homeostatic regulation of oxidative damage in neurodegenerative disease. *Free Radical Biol Med* 36 (S.1): S9, 2004.
  100. **Aliev G.**, G. Perry, J. Liu, M.A. Smith, S.G. Chen, B.N. Ames and J.C. de la Torre. The primary pathogenetic role of vascular contains vasoactive substances, hypoperfusion, mitochondria failure and oxidative stress in aging and Alzheimer disease. In: Alzheimer's Association International Conference on Prevention of Dementia (June 18-21, 2005, Washington, D.C.). In: *Alzheimer's & Dementia*, 2005:1(1); S1, P-074, Page S31.
  101. **Aliev G.**, Perry G., Smith M.A., Chen S.G., de la Torre J.C. and Burnstock G. The Role of Nitric Oxide and ET-1 in the Pathobiology of Cardiovascular Diseases, Tumors and Neurodegeneration. In: 9<sup>th</sup> International Conference on Endothelin (Park City, Utah, USA, September 11-14, 2005). PO21. pp.39.
  102. de la Torre J.C. and **Aliev G.** Vascular nitric oxide is a critical molecule in spatial memory function during chronic brain hypoperfusion. Findings from an experimental model of MCI. In: International AD conference in Sorrento (March, 2005 Italy). Plenary Invited Lecture. Abstract Book, 2005.
  103. **Aliev G.**, Smith M.A., Perry G. Chen S.G., and de la Torre J.C. Vasoactive substances, hypoperfusion, mitochondria failure and oxidative stress in aging and AD. In: 4th international congress on Vascular Dementia (VD). Invited lecture. Abstract Book, 2005, P5.
  104. Honda K., Smith M.A., **Aliev G.**, Moreira P.I., Nunomura A., Harris PLR, Siedlak SL and Perry G. The role of oxidative insult and neuronal survival in chronic neurodegenerative disease. In: 4th international congress on Vascular Dementia. Abstract Book, 2005, P6.
  105. **Aliev G.**, Smith M.A. and Perry G. Atherosclerotic lesions and mitochondria DNA deletions in brain microvessels as a central target for the development of human AD and AD-like pathology in aged transgenic mice? *J. Neurological Sciences*, 2005, 229:354-355.
  106. de la Torre J.C. and **Aliev G.** Alzheimer's disease is a vascular disorder with neurological consequences? *J. Neurological Sciences*, 2005, 229:305-306.



107. Perry G., Siedlak SL de la Torre J.C., Smith M.A. and **Aliev G.** Vascular and metabolic abnormalities Alzheimer's disease. *J. Neurological Sciences*, 2005, 229:375-375.
108. Moreira P.I., Siedlak SL, Santos M.S., Oliveira C.R., Fujioka H., Tabaton M., Nunomura A., **Aliev G.**, Szweda L.I., Zhu X., Smith M.A. and Perry G. Mitochondrial Autophagocytosis in Alzheimer's Disease. In: International Conference of AD (Madrid Spain, July 2006). *Alzheimer's & Dementia* 2006; 2 (Suppl 1): S79.
109. **Aliev G.**, Perry G, Shenk JC, Puchowicz M, Xu K, Siedlak SL, Obrenovich ME, Smith MA, Friedland RP, Ames BN, Liu J, de la Tore JC, LaManna JC and Koistinaho J. The primary pathogenetic role of vascular hypoperfusion, and oxidative stress in Alzheimer disease In: 76<sup>th</sup> Congress of European Atherosclerosis Society (EAS) Helsinki, Finland, June 10-13, 2007). EAS 2007 Helsinki, June 10-13, 2007. *Atherosclerosis*, 2007 (Suppl), V8 (1) PO13:P357, Page 105.
110. **Aliev G.**, Puchowicz M., Xu K., Shenk JC, Smith M.A., Siedlak S.L., Obrenovich M.E., de la Tore J.C., Friedland R. P., Perry G, and LaManna J.C. APOE deficiency induces age-dependent brain hypoperfusion and neuronal-glia and microvascular damage in mice. In: 8<sup>th</sup> International Conference on Alzheimer's and Parkinson's Diseases (AD/PD 2007). Austria Salzburg, (March 14-18, 2007) In: Proceeding 8<sup>th</sup> International Conference AD/PD 2007, P545. In: *Neurodegenerative Diseases* 4 (Suppl 1):182 (2007).
111. Perry G, Moreira PI, Siedlak SL, Santos MS, Oliveira CR, Fujioka H, Tabaton M, Nunomura A, **Aliev G.**, Szweda L.I. and Smith MA. Mitochondrial autophagocytosis in Alzheimer disease. In: *Experimental Biology 2007, The FASEB Journal*. 2007; 21:126.6. Program Abstract #167.3.
112. **Aliev G.**, Shenk J.C., Liu J., Puchowicz M., Xu K, Smith MA., Siedlak S.L, Obrenovich M.E., Ames B.N., de la Torre J.C., Koistinaho J., LaManna J. C., and Perry G. Preventative effect of mitochondrial antioxidants in ApoE deficiency mouse model of brain hypoperfusion. Invited Lectures. In: 5<sup>th</sup> International Congress on Vascular Dementia, Budapest, Hungary, November 8-11, 2007. Abstract Book, 2007, P.78.
113. Perry G., Ames B.N. and **Aliev G.** Is oxidative stress an initiator of mitochondrial failure and vascular hypoperfusion during aging and Alzheimer disease? Present and future. Invited Lectures. In: 5<sup>th</sup> International Congress on Vascular Dementia, Budapest, Hungary, November 8-11, 2007. Abstract Book, 2007, P.76.
114. Moreira PI, Siedlak SL, Wang X, Santos MS, Oliveira CR, Tabaton M, Nunomura A, Szweda LI, **Aliev G.** Perry G. Autophagocytosis of mitochondria is prominent in Alzheimer disease. In: 5<sup>th</sup> International Congress on Vascular Dementia, Budapest, Hungary, November 8-11, 2007. Abstract Book, 2007, P.89.
115. Perry G., Moreira P.I., Nunomura A., Harris P.H., Zhu X., Smith M.A. and **Aliev G.** Abnormalities in protein RNA and Metal Trafficking Underlie oxidative Damage in Alzheimer's Disease. In: 2007 International Conference "Current Hypothesis on Alzheimer's Disease". Abstract Book, 2007, P32.
116. Perry G., Honda K., Nunomura A., Moreira P.I., Zhu X., Smith M.A. and **Aliev G.** Mechanism of Mitochondrial Dependent Metal-Catalyzed Oxidative Stress in Alzheimer's Disease. In: Philip Morris External Research Program Symposium: "Regulatory Circuitry", 2007, P17.
117. **Aliev G.**, Liu J., Puchowicz M., Xu K., Siedlak S.L., Obrenovich M.E., Shenk J.C., Smith M.A., Gasimov E., LaManna J.C., Ames B.N., Perry G.. Does the Oxidative Stress and Cerebral Atherosclerosis Initiate Brain Hypoperfusion and the Development of Alzheimer Disease? In: 77<sup>th</sup> Congress of European Atherosclerosis Society (EAS) Istanbul Turkey, April 26-29, 2008.

Atherosclerosis Suppl., 2008, V9 (1), PO33:154p (PO33-560).

118. **Aliev G.**, Burnstock G. and Perry G. The Key Role of Nitric Oxide and ET-1 in the Pathobiology of Cardiovascular Diseases, Tumors and Neurodegeneration: New Target for the Drug Treatment? Invited Lecture. In: 1<sup>st</sup> International Conference on Drug Design and Discovery, (ICDDD 2008) Dubai UAE, 3 - 6 February, 2008. Abstract Book, 2008, P35.
119. Perry G., Moreira P.I., Shenk J.C., **Aliev G.** and Smith M.A. Oxidative Window to Alzheimer Disease Therapeutics. Invited Lecture. In: 1st International Conference on Drug Design and Discovery, (ICDDD 2008) Dubai UAE, 3 - 6 February, 2008. Abstract Book, 2008, P45.
120. **Aliev G.**, Shenk J.C., Fischbach K., Perry G. and Ames B.N. The primary pathogenetic role of vascular hypoperfusion, mitochondria failure and oxidative stress in aging and Alzheimer disease. In: In: 2008 Joint Annual Meeting of American Society for Investigative Pathology (ASIP), American Association of Neuropathologist (AANP) and North American Vascular Biology Organization (NAVBO). (San Diego, CA, April 5-9, 2008). Experimental Biology 2008, The FASEB Journal. 2008;22:167.3.
121. **Aliev G.**, Shenk J.C., Fischbach K., Cobb C.J., Pacheco G.J., Gasimov E. and Perry G. Cerebral hypoperfusion-induced oxidative stress and mitochondrial failure as initiators of aging and Alzheimer's disease pathology ICAD 2008 Conference, Chicago, IL, USA. Alzheimer's & Dementia, 2008, v.1 (4) Suppl. Page T721.
122. Moreira P.I., Santos M.S, Siedlak S.L., Harris P., Smith M.A., **Aliev G.**, Perry G, and Oliveira C.R. Mitochondrial dysfunction in Alzheimer disease. ICAD 2008 Conference, Chicago, IL, USA. P4-185. Alzheimer's & Dementia, 2008, v.1 (4) Suppl. Page T725.
123. **Aliev G.** Oxidative Stress-Induced Mitochondrial Failure and Vasoactive Substances as Key Initiators of Pathology Favor the Reclassification of Alzheimer Disease as a Vasocognopathy. In: ICAD 2008 Conference, Chicago, IL, USA. HOT TOPIC: Control/Tracking Number: 08-HT-3584-ALZ.
124. **Aliev G.**, Morales L.A., Obrenovich M.A., Fischbach K., Gasimov E. and Perry G. The Primary Pathogenetic Role of Oxidative Stress Induced Mitochondria Failure and Vascular Hypoperfusion In Aging and Alzheimer Disease: A Lesson from the Past 100 Years. 2nd WFSBP Asia-Pacific Congress and 30th Annual Meeting of JSBP Toyama (Japan) Sept.11-13, 2008: Biomarkers for early detection and differentiation of Dementia Disorders". The World Journal of Biological Psychiatry 2008,V. 9 (S1) S-08-04.
125. **Aliev G.**, Moreira P., Siedlak S.L., Smith M.A., Cobb C.J., Ferrer D., Yacaman M.J. and Perry G. Evidence of Increased Copper and Iron but not Zinc in Alzheimer's Disease: Energy Dispersive X-ray Spectroscopy (EDS) Elemental Microanalysis. In: 13<sup>th</sup> International Meeting on Trace Elements in Man and Animals (TEMA 13). Plenary Lectures. Abstract Book 2008, P.53.
126. Lipsitt A., Palacios H.H., Fischbach K., Morales L., P. H. Reddy and **Aliev G.** Mitochondria as a Primary Target for Liver and Neuronal Lesions During Chronic Ethanol Feeding in Synomolgus Macaque Monkeys. In: Behavior, Biology, and Chemistry; Translational Research in Addiction. UT Health Science Center at San Antonio. March 21-22, 2009 (Oral Presentation). Abstract Book, 2009:A11.
127. **Aliev G.**, J.C. Shenk, E. Gasimov and Fischbach K. Can mitochondrial antioxidants be novel biological targets of pharmacological treatment in age-associated neurodegenerative mental disorders? In: The WPA International Congress "Treatments in Psychiatry (Florence April 1-4, 2009). World Psychiatry, 2009;8 (Suppl. 1):134.

128. Schenk, J.C., Castellani, R.J., Moreira, P., **Aliev, G.**, Siedlak, S.L., Harris, P.L.R., Sayre, L., Szweda, P.A., Szweda, L.I., Smith, M.A. and Perry, G. Hydroxynonenal-generated crosslinking Fluorophore accumulation in Alzheimer disease reveals a dichotomy of protein turnover. In: Annual Meeting of American Neuropathology Society. *J. Neuropathol. Exp. Neurol.*, 2009, 68(5):A75:571.
129. **Aliev G.**, Pacheco G., Palacios H.H., Perry G., Liu J., Obrenovich M.E., Corredor C., Qasimov E., Ames B.N., Morales L.A. Mitochondrial failure as a primary pathogenetic factor in Alzheimer's disease which can be diminished by selective mitochondrial antioxidants. In: 9<sup>th</sup> International Conference - AD/PD 2009 - Prague, Czech Republic, March 11-15, 2009. A-117-0027-01151. *Neurodegenerative Diseases*, 2009, V. 6; No 3 (v.1-2), Suppl. 1: 1151.
130. **Aliev G.** Brain Mitochondria as a Primary Target in the Development of Treatment Strategies for Alzheimer Disease. In World Pharmaceutical Congress: Inaugural Targeting Alzheimer's with Novel Therapeutical Approach: Plenary Distinguish Faculty Lecture (Philadelphia, June 10-11, 2009), Abstract Book, PP.10.
131. **Aliev G.**, Palacios H.H., Fischbach K., Lipsitt A., Liu J., Xu K., Puchowicz M., Obrenovich M.E., Shenk J.C., Gasimov E., Morales L., Ames B.N. and LaManna J.C. Can mitochondrial antioxidants be novel biological targets of treatment in neurodegenerative disorders? In: ISOTT 2009 - International Society on Oxygen Transport to Tissue: Cleveland, Ohio July 5-9, 2009. Abstract Book, PP. OS-30.
132. **Aliev G.**, Liu J., Lipsitt A., Fischbach K., Obrenovich M.E., Ames B.N., Qasimov E, LaManna J.C., Morales L. AND Bragin V. Preventing cognitive decline in elderly demented/depressed patients and in ApoE4 mouse as a model of human AD by feeding Acetyl-L-Carnitine and Lipoic Acid. In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna, Austria. *Alzheimer's & Dementia*, July 2009; Vol. 5, Issue 4, Page P152.
133. Bragin V., Chemodanova M., Dzhafarova N., Bragin I., Chernyavskyy P. and **Aliev G.** Preservation of cognitive functioning in depressed, demented geriatric patients with cardiovascular risk factors: an ongoing 3 year naturalistic study. In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna. *Alzheimer's & Dementia*, July 2009; Vol. 5,(4), Page P320.
134. Bragin V., Chemodanova M., Vaysman A., Bragin I., Chernyavskyy P., Grinayt E., and **Aliev G.** Preservation of learning abilities in people with dementia and depression with different level of cognitive impairment In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna, Austria. *Alzheimer's & Dementia*, July 2009; Vol. 5, Issue 4, P322.
135. **Aliev G.**, Daza j., Lipsitt A., Martínez-Agüero M., Palacios H.H., Fischbach K., Obrenovich M.E., LaManna J.C., Bragin V. and Morales L. Silver nanoparticles as alternate strategies for drug delivery to Alzheimer Brain. In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna, Austria. *Alzheimer's & Dementia*, July 2009; Vol. 5, Issue 4, Page P65.
136. **Aliev G.** Prevention and treatment of cognitive decline in elderly demented/depressed patients using ApoE4 Tg+ mice as a model of human AD by feeding Acetyl-L-Carnitine and R- $\alpha$ -Lipoic Acid. In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna, Austria. HOT TOPIC. Control/Tracking Number: 09-HT-2587-ALZ. P4-321. . *Alzheimer's & Dementia*, July 2009; Vol. 5, Issue 4, Page e25.
137. **Aliev G.**, Daza j., Lipsitt A., Martínez-Agüero M., Palacios H.H., Fischbach K., Obrenovich M.E., LaManna J.C., Bragin V. and Morales L. Silver nanoparticles as alternate strategies for drug delivery to Alzheimer Brain. In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna, Austria. *Alzheimer's & Dementia*, July 2009; Vol. 5, Issue 4, Page P65.

138. Qasimov E., Eyyubova G., Qulieva N. and **Aliev G.** Acute Endotoxemia as an initiator factor for brain inflammation: Implications for Alzheimer Disease In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna, Austria. *Alzheimer's & Dementia*, July 2009; Vol. 5, Issue 4, Page P45.
139. Schenk, J.C., Castellani, R.J., Moreira, P., **Aliev, G.**, Siedlak, S.L., Harris, P.L.R., Sayre, L., Szweda, P.A., Smith, M.A. and Perry, G. Hydroxynonenal-generated crosslinking fluorophores accumulate in Alzheimer disease. In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna, Austria. *Alzheimer's & Dementia*, July 2009; Vol. 5, Issue 4, Page P315.
140. Qasimov E., Eyyubova G., Qulieva N. and **Aliev G.** Acute Endotoxemia as an initiator factor for brain inflammation: Implications for Alzheimer Disease In: International Conference on Alzheimer's Disease; July 11-16, 2009. Vienna, Austria. *Alzheimer's & Dementia*, July 2009; Vol. 5, Issue 4, Page P482.
141. **Aliev G.**, Palacios H.H., Lipsitt A., Fischbach K., Bragin V. Morales L. and Lamb B.T. The development of Alzheimer disease like pathology in YAC A $\beta$ PP transgenic mice is associated with the overexpression of Endothelin-1 and Nitric oxide Synthase In: ET-11: APS International Conference on Endothelin. September 9 - 12, 2009, [Marriott Chateau Champlain, Montreal, Canada] (oral presentation). *The Physiologist*, 2009: Vol. 52, No. 6:Page 21 (6.4).
142. **Aliev G.**, Manczak M., Grant K.A. and P. H. Reddy. Mitochondrial damage as a hallmark for liver and neuronal lesions during chronic ethanol self administration in Cynomolgus monkeys. In: Society for Neuroscience Abstracts 2009, Chicago, October 17-21, 2009. Control/Tracking Number: 2009-S-6231-SFN. Poster Presentation: P. 344.16.
143. **Aliev G.** Nitric Oxide-Dependent Mitochondrial DNA Overproliferation and Deletion in the Pathogenesis of Tumor Growth: Implication of Nanoparticles for the Drug Delivering. In: Distinguish Faculty Lecture: "Cambridge Healthtech Institute's Inaugural The Sciences of Bio-Banking Lectures". November 16-17, 2009. Crowne Plaza Philadelphia, USA. Abstract Book: Page 15.
144. **Aliev G.**, Obrenovich M.E., Liu J., Xu K., Puchowicz M., Gasimov E., Morales L., Ames B.N., LaManna J.C., Fischbach K. and Bragin V. Can the mitochondrial antioxidants be novel biological targets in prevention and treatment of cognitive decline in elderly demented and depressed patients? In: 6<sup>th</sup> International Congress on Vascular Dementia, Barcelona, Spain, November 19-22, 2009 (oral presentation). Abstract Book: Page 33.
145. Gasimov E., Eyyubova G., Akperov E. and **Aliev G.** Acute endotoxemia as an initiator factor for brain inflammation: implications for vascular dementia. In: 6<sup>th</sup> International Congress on Vascular Dementia, Barcelona, Spain, November 19-22, 2009 (oral presentation). Abstract Book: Page 522.
146. **Aliev G.**, Palacios H.H., Gasimov E., Morales L., Soils A., Bragin V. and Leszek J. Alzheimer Disease: Oxidative Stress Induced Vascular Hypoperfusion and Brain Mitochondrial Failure. New Scents on the Trail? Invited Plenary Lecture. In: The 6<sup>th</sup> Congress of Polish Association of Psychogeriatrics (PTPG), Wroclaw, Poland (December 2-4, 2009). In: *Polish J. of Geriatric Psychiatry*, 2009, vol. 6, No 4:VI.
147. Solís-Herrera A., Arias Esparza M. del C., Solís-Arias R.I. , Solís-Arias P.E., Solís-Arias M.P., Palacios H.H. and **Aliev G.** Human photosynthesis and its role in the understanding and treatment of Neurodegenerative diseases: Water splitting capacity of melanin, light and Alzheimer. In: The 6<sup>th</sup> Congress of Polish Association of Psychogeriatrics (PTPG), Wroclaw, Poland (December 2-4, 2009), *Polish J. of Geriatric Psychiatry*, 2009, vol. 6, No 4:XI.

148. Gasimov E.K., Quliyeva N.T., Ayyubova G.M., Akbarov E.Ch., Palacios H. H., Pacheco G. J. and **Aliev G.** Structural condition of the perineurial sheath of the sciatic nerve at the experimental edema. In: The 6<sup>th</sup> Congress of Polish Association of Psychogeriatrics (PTPG), Wroclaw, Poland (December 2-4, 2009), Polish J. of Geriatric Psychiatry, 2009, vol. 6, No 4:XI-XII.
149. **Aliev G.** Oxidative Stress Induced Mitochondria DNA Overproliferation and/or Deletion as a Hallmark in Aged Associated Diseases: Can mitochondrial antioxidants be novel biological targets of treatment in neurodegenerative disorders? Distinguish Faculty Lecture: "New Leadership of Personalized Medicine" In: BIT's 2nd Annual Congress and Expo of Molecular Diagnostics (CEMD-2009) November 19-21, 2010, Beijing, China. Abstract Book, P.35.
150. **Aliev G.,** Palacios H.H., Gasimov E., Aguirre A., Morales L., Gokhman D., Leszek J., Bragin V. and Solís-Herrera A. Prevention and Treatment of cognitive decline in elderly demented/depressed patients using ApoE4 Tg+ mice as a model of human AD by feeding Acetyl-L-Carnitine, R- $\alpha$ -Lipoic Acid and QUIAPI-1. In: WC 2010, 8th Anti-Aging Medicine World Congress & MediSpa, April, 8 to 10, 2010 Monte-Carlo - MONACO, Faculty Plenary Lecture, EuroMediCom, Abstract Book, 2010, P.119-120.
151. **Aliev G.** Bragin V. and Burzynski S.R. Can mitochondrial antioxidants be novel biological targets of treatment in cerebrovascular and neurodegenerative disorders? ICAAM & MEDISPA - Middle East International Congress in Aesthetic, Anti-Aging Medicine & Medical Spa - MIDDLE EAST, February 4-9, 2010. Abstract Book, P.24.
152. **Aliev G,** Palacios H.H., Gasimov E., Morales L. and Burzynski S.R. Mitochondrial DNA Overproliferation and Deletion in the Pathogenesis of Tumor Growth: Implication of Nanoparticles for the Drug Delivering. In: 2<sup>nd</sup> International Conference on Drug Discovery & Therapy (2<sup>nd</sup> ICDDT 2010) Dubai, UAE, February 1<sup>st</sup>-4<sup>th</sup>, 2010.
153. **Aliev G,** Palacios H.H., Gasimov E., Morales L. and Burzynski S.R. Alzheimer Disease: Vascular Oxidative Stress and Mitochondrial Failure. New Scents on the Trail? In: 2<sup>nd</sup> International Conference on Drug Discovery & Therapy (2<sup>nd</sup> ICDDT 2010) Dubai, UAE, February 1<sup>st</sup> -4<sup>th</sup>, 2010. Abstract Book, P.28.
154. **Aliev G.,** Palacios H.H., Gasimov E., Aguirre A., Morales L., Gokhman D., Leszek J., Bragin V. and Solís-Herrera A. Targeting Oxidative Stress Induced Cellular Hypoperfusion and Brain Mitochondrial Failure as a Alternate Strategies for the Prevention and Treatment of Cognitive Decline in Elderly Demented/Depressed Patients: New Scents on the Trail? NeuroTalk-2010, Singapore EXPO. Abstract Book, P.45.
155. **Aliev G.,** Palacios H.H., Gasimov E., Gokhman D., Leszek J., Obrenovich M.E., Bragin V. and Solís-Herrera A. Oxidative Stress Induced Mitochondrial failure and Brain Hypometabolism as a Primary Target for underlay the pathophysiology of Alzheimer disease and Offer Target for Treatment: Astonishing Effect of Melanin and Mitochondrial Antioxidants. In: 10<sup>th</sup> International Conference on Alzheimer's Disease; July 10-15, 2010. Honolulu, Hawaii, USA. Alzheimer's & Dementia. July 2010; Vol. 6, Issue 4 (Supplement), Page S582..
156. **Aliev G.,** Palacios H.H., Gasimov E., Gokhman D., Leszek J., Obrenovich M.E., Bragin V. and Solís-Herrera A. Targeting Oxidative Stress Induced Brain Hypometabolism and Brain Mitochondrial Failure as a New and Effective Strategies for the Prevention and Treatment of Cognitive Decline in Elderly Demented/Depressed Patients and AD: New Scents on the Trail?: In: 10<sup>th</sup> International Conference on Alzheimer's Disease; July 10-15, 2010. Honolulu, Hawaii, USA. Alzheimer's & Dementia. July 2010; Vol. 6, Issue 4 (Supplement), P. S579.
157. Gasimov E., Eyyubova G., Obrenovich M.E. and **Aliev G.** Ultrastructural Characteristics of

- Cerebral Cortex Astrocytes in Experimental Acute Endotoxemia. In: 10<sup>th</sup> International Conference on Alzheimer's Disease; July 10-15, 2010. Honolulu, Hawaii, USA. *Alzheimer's & Dementia*. July 2010; Vol. 6, Issue 4 (Supplement), P. S753.
158. Palacios H.H. and **Aliev G.** Mitochondria Antioxidants as Treatment Strategies for Alzheimer disease. In: 10<sup>th</sup> International Conference on Alzheimer's Disease; July 10-15, 2010. Honolulu, Hawaii, USA. *Alzheimer's & Dementia*. July 2010; Vol. 6, Issue 4 (Supplement), Page S150.
  159. Shenk J.C., Smith M.A., Castellani R.J., Moreira P., **Aliev G.**, Siedlak S.L., Harris P.L.R., Sayre L., Szweida P.A., Szweida L.I., and Perry G. Lipid Peroxidation Markers are associated with Granulovacuolar Degeneration but not Lipofuscin Formation. In: 10<sup>th</sup> International Conference on Alzheimer's Disease; July 10-15, 2010. Honolulu, Hawaii, USA. *Alzheimer's & Dementia*. July 2010; Vol. 6, Issue 4 (Supplement), P. S230.
  160. **Aliev G.**, Palacios H.H., Gasimov E., Gokhman D., Leszek J., Obrenovich M.E., Bragin V. and Solís-Herrera A. Oxidative Stress-induced Mitochondrial Failure, Cellular Hypoperfusion and Brain Hypometabolism Underlay the Pathophysiology of Alzheimer Disease and Offer New and Successful Targets for Treatment. In: XII Argentinean Congress on Neuropsychiatry and XIII meeting on Alzheimer's Disease Meeting, Buenos Aires, Argentina, September 1-3, 2010. In: *Revista de Neuropsiquiatria y Neurociencia Cognitiva*, 2010, V.9, P.13.
  161. **Aliev G.** Oxidative Stress-induced Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Brain Hypometabolism Underlay the Pathophysiology of Cerebrovascular and Alzheimer Disease: Offer New and Successful Targets for the Drug Delivering and Treatment. In: 80<sup>th</sup> Anniversary International Conference of Azerbaijan Medical University, Baku, October 4-5, 2010. Abstract Book, Baku, 2010, P.P. 486-488.
  162. **Aliev G.**, Palacios H.H., Leszek J., Obrenovich M.E., Bragin V. and Solís-Herrera A. Oxidative Stress-Induced Brain Hypometabolism Underlies The Pathophysiology Of Alzheimer Disease And Offers New And Successful Targets For Treatment: Astonishing Therapeutics Effects From A Combination Of A Melanin Precursor (QI-API-1) And Selective Mitochondrial Antioxidants (ALCAR+LA): New Scent On The Trail? In: *Clinical Trials for AD (CtaD10)*, Toulouse (France) November 3-5, 2010. (Oral Presentation). Abstract book. 10.
  163. **Aliev G.** Oxidative Stress-induced Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Brain Hypometabolism In the Context of Cerebrovascular and Alzheimer Disease: Offer New and Successful Targets for the Drug Delivering and Treatment. In: The 7<sup>th</sup> Congress of Polish Association of Psychogeriatrics (PTPG), Wroclaw, Poland (December 2-3, 2010). *Polish Journal of Geriatric Psychiatry*, 2010, 7(4); 141-144.
  164. **Aliev G.**, Palacios H.H., Bhushan B.Y., Gąsiorowski K., Gokhman D., Shadlinski V.B., Bragin V. and Leszek J. Oxidative Stress Induced Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Hypometabolism in the Context of Aging and Aged-Associated Diseases: Offer New and Successful Targets for Drug Delivery, Prevention and Treatment. AMWC 2011 - Monaco 9<sup>th</sup> ANTI-AGING MEDICINE WORLD CONGRESS Global Anti-Ageing Management, March 24-25-26, 2011 Monte-Carlo, MONACO, Grimaldi Forum , Lecture. Abstract Book, 2011, pp, 118-120.
  165. **Aliev G.** Oxidative Stress-induced Mitochondrial Failure, Cellular Hypoperfusion and Brain Hypometabolism Underlay the Pathophysiology of Alzheimer Disease: Mitochondrial Antioxidants and Metabolites as a New and Successful Targets for Treatment. In: *PepCon 2011*, Beijing, China (Oral presentation).
  166. **Aliev G.** Gąsiorowski K., Palacios H., Gokhman D., Shadlinski V., Bragin V. and Leszek J.

- Oxidative Stress-induced Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Brain Hypometabolism in the Context of Alzheimer Disease: Past, Present and Future. In: International Conference on Alzheimer's Diseases, 2011 (July 16-21, 2011, Paris, France). *Alzheimer's & Dementia*, 2011, Vol. 7, Issue 4, Supplement, Page S305.
167. **Aliev G.**, Palacios H.H., Shadlinski V.B., Gokhman D., Gasirovski K. and Leszek J. Silver nanoparticles as alternate and successful strategies for drug delivery to Alzheimer Brain. In: The 15<sup>th</sup> Congress of the European Federation of Neurological Societies - EFNS 2011 (Budapest, Hungary, September 10-13, 2011). Poster presentation (Reference # A-369-0001-01901).
168. **Aliev G.** and Bragin V. Aged Associated Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Hypometabolism in the Context of Cardiovascular and Neurological Disorders which Can Be Used as a Alternate and Successful Drug Treatment Strategy: Past, Present and Future. In: 13<sup>th</sup> Argentinean Congress on Neuropsychiatry, "Biomarkers and Resilience in Neuropsychiatry ", 9<sup>th</sup> Latin-American Congress on Neuropsychiatry and 14<sup>th</sup> Argentinean Meeting on Alzheimer's Disease, Buenos Aires, Argentina. August 24- 26, 2011 (**Plenary Lecture**). In: *Revista Neuropsiquiatria y Neurociencia Cognitiva*, 2011, №10, Page 7.
169. **Aliev G.** and Bragin V. Aged Associated Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Hypometabolism in the Context of Cardiovascular and Neurological Disorders: Successful Treatment Strategies by Using Mitochondrial Selective Antioxidants and Nutrients In: 7<sup>th</sup> European Masters in Aesthetic and Anti-Aging Medicine (EMAA), September 30<sup>th</sup> October 1<sup>st</sup>, 2011. Paris, France (Plenary Lecture). *Clinical Trials for Alzheimer's Disease (CTAD) 2011 Meeting Report Book*, Paris, 2011, P.10-12.
170. Bragin V., Chemodanova M., Bragin I., Dzhafarova N., Mescher I., Chernyavskyy P. and Aliev **G.** Integrative Therapy Postpones Cognitive Decline in Demented Depressed Patients: A Naturalistic 48 Month Follow Up Study. In: 6<sup>th</sup> Canadian Conference on Dementia (CCD). Montreal, Quebec, Canada, October 27-29, 2011. Abstract Book, Page 148, Poster #1.
171. **Aliev G.** Oxidative Stress in Neurodegeneration and Cancer. In: Genomics and Pharmacogenomics of Prevalent Disorder, Introduction to the First World Guide Of Pharmacogenomic. 1<sup>st</sup> Meeting of the World Organization of Genomic Medicine, VI EuroEspes Annual Conference. EuroEspes Biomedical Research Center, Bergondo, Coruña/Corunna, Spain, December 17, 2011. (**Plenary Lecture**). In: *Gen-T. The EuroEspes Journal*, 2011, 8, PP. 36-37.
172. **Aliev G.**, Obrenovich M.E. and Bragin V. Mitochondrion Dependent Oxidative Stress in the Context of Neurodegeneration and Cancer: Recent Advance. In: Alzheimer's Association International Conference 2012 (AAIC), Vancouver, British Columbia, Canada (July 14-19, 2012). *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* Vol. 8, Issue 4 (Suppl.), Page P305, P2-128.
173. **Aliev G.** Oxidative Stress-induced Mitochondrial DNA Overproliferation and Deletion, Cellular Hypoperfusion and Brain Hypometabolism in the Context of Aged Associated Dementia: New and Successful Targets for Drug Delivery and Treatment? In: Targets Meetings 1<sup>st</sup> World Neuroscience Online Conference, June 14-16, 2012. In: Conference Handbook, Target Meeting, TM's 1<sup>st</sup> World Conference Online, June 14-16, 2012, Page 26 (**Plenary Lecture**).
174. **Aliev G.**, Bragin V. and Cacabelos R. Implication of Integrative Treatment for Real-Life Geriatric Patients with Depression, Dementia and Multiple Chronic Diseases as an Alternate and Successful Treatment Strategy: A 5 Year Follow-Up of a Naturalistic Study. In: 14<sup>TH</sup> ARGENTINEAN CONGRESS ON NEUROPSYCHIATRY and Cognitive Neuroscience. 10<sup>th</sup>

LATINAMERICAN CONGRESS ON NEUROPSYCHIATRY and 15<sup>th</sup> ARGENTINEAN MEETING ON ALZHEIMER'S DISEASE. "Primary Prevention and Presymptomatic Pathology in Neuropsychiatry". **29, 30 & 31 August, 2012. NH City & Tower Hotel- 120 Bolivar St - Buenos Aires - Argentina (Plenary Lecture).**

175. **Aliev G.,** Bragin V. and Cacabelos R. Implication of Integrative Treatment for Real-Life Geriatric Patients with Depression, Dementia and Multiple Chronic Diseases: A 60-Month Follow-Up of a Naturalistic Study. In: 5<sup>th</sup> Clinical Trials on Alzheimer's disease (CTAD) Conference, Monte Carlo, France October 29-31, 2012, The Journal of Nutrition Health & Ageing, 2012, Vol. 16, No 9, 840-841 (P # 32).
176. **Aliev G.,** Magalov Sh., Hasanov N. and Hasanov E. The Epidemiological Prevalence of Epilepsy in the Nakhichevan Autonomous Republic of Azerbaijan. In: 2<sup>nd</sup> International Congress on Neurology & Epidemiology: Nice France, November 8-10, 2012. ICNE 2012 (oral presentation). Neuroepidemiology, 2012;39; 195.
177. **Aliev G.** Oxidative Stress-induced Mitochondrial DNA Overproliferation/Deletion, Cellular Hypoperfusion and Brain Hypometabolism as a New and Successful Strategies for Drug Delivery and Treatment Options in the Context of Aged Associated Dementia and Depression. In: The Jerusalem International Conference on Neuroplasticity and Cognitive Modifiability. The role of Cognitive Intervention in the shaping of women/man. Jerusalem, Israel, March 10-13, 2013. (Oral presentation).
178. **Aliev G.** Oxidative Stress Induced Cellular Hypoperfusion, Mitochondrial DNA Overproliferation and Deletion in Context of Neurodegeneration and Cancer. In: IX congress "Neuroscience for Medicine and Psychology", Sudak, Crimea, Ukraine, June 3-13, 2013 (Plenary Lecture). Abstract Book, International Congress "Neuroscience for Medicine and Psychology" Sudak, Crimea, Ukraine, June 3-13, 2013, P57-58.
179. **Aliev G.** Mitochondrial Dependent Oxidative Stress Induced Cellular Hypoperfusion in Context of Neurodegeneration and Cancer. In: Targets Meetings 2<sup>nd</sup> World Neuroscience Online Conference, June 18-20, (Plenary Lecture). Abstract Handbook, 2013, P.P.26-28.
180. **Aliev G.,** I. Bragin and V. Bragin. Role of Mitochondria-Specific Antioxidants and their Derivatives in the Drug Discovery and Development for Alzheimer's Disease. In: 13th AAIC Meeting, Boston, MA, July 13-18, 2013. Poster Presentation (P3-036).
181. Bragin V., Bragin I. and **Aliev G.** Cognitive performance of demented, depressed patients with cardiovascular pathology - without and with diabetes mellitus: a preliminary report of a cross-sectional study. In: 13th AAIC Meeting, Boston, MA, July 13-18, 2013. Poster Presentation (P4-150).
182. **Aliev G.** Integrative Treatment as a Alternate and Successful Strategies for Real-Life Geriatric Patients with Multiple, Chronic Illnesses: A 60-Month Follow-Up of a Naturalistic Study. IANA (International Academy on Nutrition and Aging) and I.A.G.G. (International Association of Gerontology and Geriatrics) 2013 Meeting, Seoul, Korea (June 23, 2013), [Invited Speakers]. In: J Frailty Aging 2013;2(2):109-115.
183. **Aliev G.** Oxidative stress induced mitochondrial DNA overproliferation and deletion in context of neurodegeneration and cancer: Past, present ,and future.. In: 11<sup>th</sup> World Congress of Biological Psychiatry in Kyoto, 23 - 27 June 2013, Japan (Symposia Oral Presentation). FC-20-005, P. 113.
184. **Aliev G.** Oxidative stress-induced mitochondrial DNA overproliferation and deletion in neurodegenerative disorders. In: 11<sup>th</sup> World Congress of Biological Psychiatry in Kyoto, 23 -



27 June 2013, Japan (**Symposia Oral Presentation**). S-048-003, P.61.

185. Carrera I., Etcheverría I., Li Y., Fernandez-Novoa L., Lombardi V., Vigo C., Palacios H.H., Benberin V.V., Cacabelos R. and Aliev G. Immunocytochemical Characterization of Alzheimer's Disease Hallmarks in APP/PS1 Transgenic Mice Treated with a New Anti-Amyloid- $\beta$  Vaccine. (**Symposia Oral Presentation**). In: Central Asian Journal of Global Health, 2013, Vol. 2, Suppl. (2013) | ISSN 2166-7403 (online), DOI 10.5195/cajgh.2013.119.
186. **Aliev G.** Implication of Mitochondria Specific Antioxidants and their Derivatives in the Context of the Drug Development for Neurodegeneration and Cancer. In: 1<sup>st</sup> Russian Conference on Medicinal Chemistry, Moscow, Russia, 8-12 September, 2013, **Plenary Lecture**. In Abstract Book: Moscow, 2013, Page 14.
187. **Aliev G.** Bragin I. and Bragin V. The Integrative Treatment as a Alternate and Successful Strategies for Real-Life Geriatric Patients with Multiple, Chronic Illnesses: A 60-Month Follow-Up of a Naturalistic Study. In: 15TH ARGENTINEAN CONGRESS ON NEUROPSYCHIATRY and Cognitive Neuroscience, 11<sup>o</sup> LATINAMERICAN CONGRESS ON NEUROPSYCHIATRY & 16th ARGENTINEAN MEETING ON ALZHEIMER'S DISEASE. 21-23 August, 2013. NH City & Tower Hotel- 120 Bolivar St -Buenos Aires - Argentina (**Plenary Lecture**).
188. **Aliev G.** Nitric oxide-dependent mitochondrial DNA overproliferation and deletion in the context of Alzheimer disease and cancer. In: 13<sup>th</sup> International Congress on Amino Acids, Peptides and Protein. Galveston, Texas, October 5-7, 2013. Amino Acids (2014) 46:251-254. Page 252. DOI 10.1007/s00726-013-1634-6.
189. **Aliev G.** Mitochondria Specific Antioxidants and their Derivatives in the Context of the Drug Development for Neurodegeneration and Cancer. In: 2<sup>nd</sup> International Conference on Medicinal Chemistry & Computer Aided Drug Designing (MedChem & CADD-2013). October 15-17, 2013 Las Vegas, USA (**Plenary Lecture**). Med Chem 2013, vol. 3(4): Page 90. ISSN 2161-0444.
190. **Aliev G.** Bragin I. and Bragin V. The Integrative Treatment in the Context of the Preservation of the Cognitive Performance in Alzheimer Patients. In: 6<sup>th</sup> edition of Clinical Trials for Alzheimer's disease CtaD 2013 , San Diego, CA, USA, November 14-16, 2013, Abstract Book, 2013, Page 27, Poster 66.
191. **Aliev, G.** Mitochondrial Dependent Cell Signaling and Oxidative Stress Induced Cellular Hypoperfusion in Context of Neurodegeneration and Cancer. In: "Explore the Novel Research in Cell Science and Stem Cell Research Cell Science-2013", Baltimore, MD, USA, November 20 - 22, 2013 (**Plenary Lecture**).
192. **Aliev, G.** Link Between Cancer and Alzheimer Disease via Oxidative Stress Induced by Nitric Oxide-Dependent Mitochondrial DNA Overproliferation and Deletion. In: "Targeting Mitochondrial Dysfunction & Toxicity" conference, Organized by Cambridge Healthtech Institute (March 19-20, 2014, Boston, MA, USA) (**Plenary Lecture**). Abstract Book, Boston, March 2014, pp.1.
193. **Aliev G.** Mitochondrial Dependent Oxidative Stress Induced Cellular Hypoperfusion in Context of Neurodegeneration and Cancer Offers New and Successful Strategy for the Drug Development. In: 4<sup>th</sup> Pharmaceutics & Novel Drug Delivery Systems, March 24-26, 2014. Hilton, San Antonio Airport, USA (**Plenary Lecture**). In: Pharmaceut Anal Acta, 2014, 5:3, pp.47-48. <http://dx.doi.org10.4172/2153-2435.S1.012>
194. **Aliev, G.** Link between Cell Signaling, Cancer and Alzheimer Disease via Oxidative Stress Induced by Nitric Oxide-Dependent Mitochondrial DNA Overproliferation and Deletion in the

- Context of the Drug Development for Neurodegeneration and Cancer. In: "Explore the Novel Research in Cell Science and Stem Cell Research Cell Science-2014", 4th World Congress on Cell Science & Stem Cell Research, June 24-26, 2014, Valencia, Spain (Oral Presentation).
195. **Aliev, G.** Nitric Oxide-Dependent Mitochondrial DNA Overproliferation and Deletion in the Context of the Drug Development for Neurodegeneration and Cancer: Link between Cell Signaling, Cancer and Alzheimer Disease via Oxidative Stress Dependent Pathway. In: TM's 3<sup>rd</sup> World Neuroscience Online Conference June 17-19, 2014 (Plenary Lecture).
196. **Aliev, G.** Oxidative Stress Induced Mitochondrial DNA Overproliferation and Deletion in the Context of the Drug Development for Neurodegeneration and Cancer. In: 3<sup>rd</sup> International Conference on Translational Medicine, November 03-05, 2014, Las Vegas, USA (Plenary Lecture).
197. **Aliev, G.** and Bragin V. Integrative Therapy Postpones Cognitive Decline in Demented Depressed Patients in Real-Life Geriatric Patients with Multiple Chronic Illnesses: A 60-Month Follow-Up of a Naturalistic Study. In: 3<sup>rd</sup> International Conference on Translational Medicine, November 03-05, 2014, Las Vegas, USA (Plenary Lecture).
198. Barreto G., **Aliev G.** and Garcia-Segura L.M. Astrocytes as therapeutic targets of estrogenic compounds following brain injuries. *Front. Cell. Neurosci.* (2015). Conference Abstract: Latin-American School on glial cells in the diseased brain (IBRO). doi: 10.3389/conf.fncel.2015.35.00017. Published Online: 11 Jun 2015. (Oral Presentation).
199. **Aliev G.** and Barreto G. Nitric Oxide-Dependent Oxidative Stress Induced Mitochondrial DNA Overproliferation and Deletion in the Context of Cancer and Alzheimer Disease. *Front. Cell. Neurosci.* (2015). Conference Abstract: Latin-American School on glial cells in the diseased brain (IBRO). doi: 10.3389/conf.fncel.2015.35.00015. Published Online: 11 Jun 2015. (Oral Presentation).
200. **Aliev G.,** Barreto G. and Bragin V. Implication of Integrative Treatment Strategies for Real-Life Geriatric Patients with Multiple, Chronic Illnesses: A 60-Month Follow-Up of a Naturalistic Study. *Front. Cell. Neurosci.* (2015). Conference Abstract: Latin-American School on glial cells in the diseased brain (IBRO). doi: 10.3389/conf.fncel.2015.35.00016. Published Online: 11 Jun 2015. (Oral Presentation).
201. **Aliev, G.** Mitochondrial Dependent Oxidative Stress Induced Cellular Hypoperfusion, Erythrocyte Metabolism, and Calcium Signaling in the Context of Neurodegeneration and Cancer: Recent Challenges. In: 2<sup>nd</sup> Russian Conference on Medicinal Chemistry and the 6<sup>th</sup> Russian-Korean Conference "Current Issues of Biologically Active Compound Chemistry and Biotechnology" Novosibirsk, Russia, July 5-10, 2015, (Plenary Lecture), Abstract Book, Novosibirsk, Russia, pp. 28-33.
202. Solís Herrera A., Arias Esparza M. del C., Solís Arias P.E., and **Aliev G.** Human Photosynthesis or the Unexpected Capacity of Melanin Molecule to Dissociate the Water Molecule: Implications as Alternate and Successful Treatment Strategies for the Neurodegenerative Disease. In: 2<sup>nd</sup> Russian Conference on Medicinal Chemistry and the 6<sup>th</sup> Russian-Korean Conference "Current Issues of Biologically Active Compound Chemistry and Biotechnology" Novosibirsk, Russia, July 5-10, 2015, (Plenary Lecture), Abstract Book, Novosibirsk, Russia, pp. 56-57.
203. Barreto G.E., and **Aliev G.** Astrocytes as Targets for Neuroprotection from Brain Injury. In: 2<sup>nd</sup> Russian Conference on Medicinal Chemistry and the 6<sup>th</sup> Russian-Korean Conference "Current Issues of Biologically Active Compound Chemistry and Biotechnology" Novosibirsk, Russia, July 5-10, 2015, Oral Presentation, Abstract Book, Novosibirsk, Russia, pp. 64-65.

204. Zamyatnin Jr A.A., **Aliev G.**, Gorokhovets N.V., Makarov V.A., Morozov S.Yu., Savvateeva L.V., Serebryakova M.V., Solovyev A.G., and Zernii E.Yu. Assessment of Triticain- $\alpha$  glutenase and collagenase activities for use in enzymatic therapy assays. In: 2<sup>nd</sup> Russian Conference on Medicinal Chemistry and the 6<sup>th</sup> Russian-Korean Conference "Current Issues of Biologically Active Compound Chemistry and Biotechnology" Novosibirsk, Russia, July 5-10, 2015, **Oral Presentation, Abstract Book, Novosibirsk, Russia, pp. 129.**
205. **Aliev, G.** Oxidative Stress Induced Mitochondrial Dependent Cellular Hypoperfusion, Erythrocytes Metabolism in the Context of Neurodegeneration and Cancer Offers New and Successful Strategy for the Drug Development and Treatment . In: 4<sup>th</sup> International Conference on Neurology and Therapeutics, July 27-29, 2015, Rome, Italy (**Plenary Lecture**).
206. **Aliev, G.** Nanoparticles as Alternate Strategies for Drug Delivery into the Alzheimer Brain: Electron Microscopy Qualitative Ultrastructural Analysis. Biopharma-2015, International Conference and Expo on Biopharmaceutics" (Biopharma-2015), September 21-23, 2015, Baltimore, USA (**Oral Presentation**).
207. **Aliev G.**, Barreto G.E., Cacabelos R. and Bachurin S.O. The oxidative stress induced nitric oxide dependent mitochondrial DNA overproliferation and deletion in the context of the Cancer and Neurodegeneration: Recent Challenge. In: RDS-1. Inaugural Reward Deficiency Syndrome Summit: November 16-18, 2015, San Francisco, CA, USA (**Invited Plenary Speakers**). <http://unitedscientificgroup.com/conferences/inaugural-reward-deficiency-syndrome-summit/speakers>
208. **Aliev G.** and Bachurin S.O. Nanoparticles as Alternate Strategies for Drug Delivery into the Brain. In: Drug Delivery 2016 International Conference, 9th World Drug Delivery Summit during June 30-July 02, 2016 at New Orleans, USA (**keynote speakers**).
209. **Aliev G.** The oxidative stress initiated mitochondrial DNA overproliferation and deletion in the context of the Cancer and Neurodegeneration: Recent Challenge in Neuropharmacology. In: Neuropharmacology 2016, 4th Global Experts Meeting on Neuropharmacology, September 15-17, 2016 at San Antonio, USA, **Keynote Speakers. In: Neurochem Neuropharm, 2016, 2.2 (Supplement) Page 36.** <http://dx.doi.org/10.4172/2469-9780.C1.001>
210. **Aliev G. Nanoparticles as Alternative Strategies for Drug Delivery to the Alzheimer Brain: Recent Challenges.** In: 5<sup>th</sup> International Conference and Exhibition on Pharmacology and Ethnopharmacology, Mar 27-29, 2017 Orlando, USA (**in press, plenary lecture**).
211. **Aliev G. Alternative Strategies for Drug Delivery to the Brain: Recent Challenges.** In: 5<sup>th</sup> International Conference and Exhibition on Pharmacology and Ethnopharmacology, Mar 27-29, 2017 Orlando, USA (**in press, plenary lecture**).
212. **Aliev G.** and Bachurin S.O. Conjugates of  $\alpha$ -Carbolines and Phenothiazine as new selective inhibitors of butyrylcholinesterase and blockers of NMDA receptors for Alzheimer Dementia. In: 5<sup>th</sup> International Conference and Exhibition on Pharmacology and Ethnopharmacology, Mar 27-29, 2017 Orlando, USA (**in press, plenary lecture**).
213. **Aliev G.**, Barreto G.E. and Echeverria V. Nicotine-Derived Compounds as New and Selective Therapeutic Tools Against Post-Traumatic Stress Disorder. In: 5<sup>th</sup> International Conference and Exhibition on Pharmacology and Ethnopharmacology, Mar 27-29, 2017 Orlando, USA (**in press, plenary lecture**).
214. **Aliev G.**, Barreto G.E and Baez E. Mesenchymal stem cells conditioned medium protects

astrocytes from scratch assay in vitro. In: 13<sup>th</sup> ICNA (International Conference on Neuroprotective Agents), September 18-21, 2016, Bilbao, Spain (oral Presentation).

215. Barreto1 G.E., Ávila-Rodríguez M., **Aliev G.** and Garcia-Segura L.M. Tibolone protects astrocytic cells through the estrogen receptor beta and neuroglobin upregulation. In 13<sup>th</sup> ICNA (International Conference on Neuroprotective Agents), September 18-21, 2016, Bilbao, Spain (oral Presentation).
216. **Aliev G.** The mitochondrial DNA overproliferation and deletion in the context of the Neurodegeneration: Recent Challenge. In 2<sup>nd</sup> International Conference on Cytopathology & Histopathology, August 10-12, 2016 Las Vegas, Nevada, USA (submitted as a Plenary Lecture).

### **PATENT & RATIONALIZATION (Total 10):**

1. **Aliev G.** and Mironov A. Methods of modeling ischemia of large vessels in experimental animals. PN- O-2957, 06.19.1987. Second Moscow Medical Institute, Moscow, USSR.
2. **Aliev G.** and Kolpakov V. Methods of special flattening of vessels for the possible preparation of en face samples. PN 0-3233. 06.24.1988. Second Moscow Medical Institute, Moscow, USSR.
3. **Aliev G.** and Rekhter M. Special methods of preparation of large vessels for transmission electron microscopic analysis. PN- O-2949, 06. 19.1987. Second Moscow Medical Institute, Moscow, USSR.
4. **Aliev G.** and Rekhter M. Special methods of preparation of large vessels of endothelium for transmission electron microscopic analysis. Rationalization. Ivanovo Medical Institute, Ivanovo, Russia. N-1774. 12.04.1986.
5. **Aliev G.** and Mironov A. Techniques for modeling ischemia in large vessels of experimental animals. Rationalization. Ivanovo Medical Institute, Ivanovo, Russia. N-1773. 12.04.1986.
6. **Aliev G.** Special arrangement of a preparation of samples for Scanning Electron Microscopic examination. Rationalization. Ivanovo Medical Institute, Ivanovo, Russia. N-1792. 02.06.1987.
7. **Aliev G.** and Tarasov V.A. Special arrangement of samples for SEM during coating in a vacuum apparatus. Rationalization. Ivanovo Medical Institute, Ivanovo, Russia. N-1801. 02.06.1987.
8. **Aliev G.** and Kolpakov V. Methods of fixation of cannula during perfusion fixation via the heart in experimental animals. Rationalization. Ivanovo Medical Institute, Ivanovo, Russia. N-1844. 03.09.1988.
9. **Aliev G.** and Kolpakov V. Special techniques of flattening vessels for the possible preparation of en face samples. Rationalization. Ivanovo Medical Institute, Ivanovo, Russia. N-1843. 03.09.1988.
10. **Aliev G.** Methods of prolonging viability of large vascular endothelium after sudden death. Rationalization. Ivanovo Medical Institute, Russia. N-1841. 02.16.1988.

#### **Teaching Experience:**

**For several years (>20 years) I have been teaching Functional & Gross Anatomy,**

**Cell Biology, Vascular Biology, Neuroscience, Biotechnology, Cytology, Histology & Embryology (Microanatomy) and Pathology (including general and systemic pathology, Cytoskeleton and Disease, Aging and the Nervous System) for Medical, Graduate and Postgraduate Students and Medical Doctors. In the fall of 2004, I developed a new teaching Curricula "Application of Electron Microscopy for Biology and Medicine" for Undergraduate, Graduate and Postgraduate (Postdoctoral) Student . I have also developed new teaching curricula for the Master Program in the Health Sciences and Healthcare Administration.**

### **Invited Lectures on Teaching/Curricula Development:**

- 1. Department of Pharmacology, University of Padua, Italy. "Teaching of Anatomy and Pathology Courses for the Pharmacy Student: Experiences using Modern Ultrastructural Techniques .1991.**
- 2. Department of Pharmacology, Faculty of Pharmacy, University Of Rennes, France. "Challenging and Difficulty of the Teaching of the Human Cross Anatomy and Histology/Cytology in 1st and 2nd semester of the Pharmacology Student", 1991**
- 3. Institute of Pharmacological Sciences, University of Milan, Italy. "Implication of Modern Morphological Techniques in the teaching of the Pathology and Cross Anatomy Courses for the Medical and non-Medical student: New Prospective. 1992**
- 4. Department of Pharmacology, University of Padova. Italy. "Experiences of the Implication of the Electron Microscopy Techniques for the Gross Anatomy and Pathology Teaching Courses for the Medical Student. 1993**
- 5. Department of Pharmacology, University of Florence, Italy. "Scanning Electron Microscopy as a techniques in the context of the teaching of the Histology and Cytology Courses", 1993.**
- 6. Department of Anatomy and Developmental Biology, University College London, United Kingdom. "Difficulty of the teaching of the Gross Anatomy, Development Neurobiology and Histology for the Medical students: Implication of the three dimensional morphology techniques as alternate methods for the practical course. 1994.**
- 7. Department of Experimental Biology, University of Jaen, Spain. "Features of the Gross Anatomy and Histology Teaching Experiences in Spanish University", 1997.**
- 8. The Cleveland Clinic Foundation, Cleveland, USA. "Limitation of the understanding of the Gross Anatomy, Histology and Pathology in the experiences of the foreign graduated Medical Student, Research Assistant and Postdoctoral fellow involved in the Research activities in USA Medical School. 1998.**
- 9. Department of Anatomy and Neuroscience. Case Western Reserve University (CWRU). "Experiences of the Teaching of the Gross Anatomy, Histology and Cytology in the context of the Clinical Pathology Courses. 1999.**
- 10. Institute for Brain Aging & Dementia, University of California, Irvine, CA. The role of Mitochondria abnormalities in the Pathogenesis of Neurodegenerative**

diseases: Implication for the Pathology Teaching Courses. 2002.

11. Department of Anatomy, Azerbaijan Medical University, Azerbaijan. "Implication of Virtual Microscopy in the Teaching of Gross Anatomy and Anthropology for the Medical Students. 2003

12. Department of Histology, Cytology and Embryology, Azerbaijan Medical University, Baku, Azerbaijan. "Efficiency of the Small Groups Student Team for the learning Histology and Cytology practical courses. 2004.

13. Department of Pathology, Azerbaijan Medical University, Baku, Azerbaijan. Pathobiology of Alzheimer's disease in the Context of the Pathology Teaching Courses for the Training of the Residence. 2008.

14. University of Antigua, School of Medicine, Antigua West India. "Difficulty and challenging the learning Experiences of Gross Anatomy, Histology/Cytology and Pathology in an accelerated Teaching Formula. 2004.

15. University of Javeriana, Colombia. Application of Electron Microscopy for Biology and Medicine for the Histology and Anatomy Teaching Courses for the Biological and Medical Students. 2008. The total number of lecture #5.

16. Institute of Advanced Scientific Investigations and High Technology Services, Panama, Republic of Panama Recent Challenges in the teaching of the Neuropathology Courses for the Medical student. 2008.

17. Centro de Estudios de la Fotosíntesis Humana. S.C. Aguascalientes, Mexico and University of the Aguascalientes, Mexico. Teaching Experiences of the Gross Anatomy, Histology and Pathology for the medical and biological student. 2009.

18. Join Scientific Congress Dedicated of the 80th Anniversary Congress of Azerbaijan Medical University. Training of Graduate Students, Research and Teaching Assistances and Postdoctoral Fellow. Baku Azerbaijan, 2010.

19. Department of Anatomy, Ivanovo Medical Academy, Ivanovo, Russia.  
Experiences of Teaching  
Gross Anatomy, Histology/Cytology and Pathology for Medical student in USA, 2011.

### **APPENDIX I: TEACHING COURSES INFORMATION**

<b>Institution</b>	<b>And end date</b>	<b>Number of credit hours per week</b>	<b>Subject, course title</b>	<b>number of student per classes</b>
Ivanovo Medical Institute, Russia	1986-1990	10 hours per week	Cytology, Histology and Embryology (Microanatomy) for Biology and Medical Student	35-40
Ivanovo Medical Institute, Russia	1988-1990	4 hours per week	Gross Anatomy for Biology and Medical Student	35-40
Ivanovo Medical Institute, Russia	1989-1990	2 hours per week	Neuroscience for Biology and Medical Student	10-15
University of	1996-1997	3 hours	Cytology and Histology for Biology	25-30

Jaen, Spain		per week	Student	
Case Western Reserve University	1998-1999	3 hours per week	Cytology and Histology for Biology Student	25-30
CWRU	1998-1999	2 hours per week	Vascular Biology for Biology and Medical Student	10-15
CWRU, Cleveland, OH USA	1998-1999	2 hours per week	Neuroscience for Biology and Medical Student	10-15
Case Western Reserve University, Cleveland, OH USA	1999-2003	2 hours per week	Clinical Biochemistry: Molecular Mechanisms of Cardiovascular and Neurodegenerative Disease Pathogenesis	10-15
Case Western Reserve University	2004-2005	4 hours per week	General and Systemic Pathology for Medical Student	10-15
Case Western Reserve University, Cleveland, OH USA	2004-2006	6 hours per week	Application of Electron Microscopy for Biology and Medicine (for Biology and Medical Student)	10
University of Texas at San Antonio, San Antonio, TX USA	2006-2009	3 hours per week	Application of Electron Microscopy for Biology and Medicine (for Biology and Biotechnology Student)	8-10
University of Texas at San Antonio, San Antonio, TX USA	2008-2009	3 hours per week	Cytoskeleton and Disease (for undergraduate graduate students)	10
University of Texas at San Antonio, San Antonio, TX USA	2008-2009	3 hours per week	Aging and the Nervous System (for undergraduate and graduate students)	10
Pontificia Universidad Javeriana, Bogotá, Colombia	2009-2010	3 hours	Biochemistry of Aging and Aged Associated Diseases	15
Pontificia Universidad Javeriana, Bogotá, Colombia	2009-2010	3 hours	Clinical Advanced Biochemistry of Cardiovascular and CNS	15
Pontificia Universidad Javeriana, Bogotá, Colombia	2009-2010	3 hours	Application of Electron Microscopy for Biology and Medicine (for Biology and Medical Student, Postdoctoral Fellow, Research Assistant and Pathology Residence	15
University of Atlanta, Atlanta, Georgia	2010-2015	3 hours	Online: BSc and MS student on the topic of Health Sciences and Healthcare Administration: HC605;HS610; HS615	15 online students.

**APPENDIX II: BRIEF SUMMARY OF PHD THESIS**

Title of PhD Thesis: The Ultrastructural and Functional Analysis of Vessel Endothelium after Ischemia and Reperfusion and Possible Pharmacological Interventions

**(PhD in Cardiovascular Pathology, Neurological Disorders & Neuroscience)**

Jury Final Decision: PhD with Summa Cum Laude: Cardiovascular Pathobiology.

Moscow State University, Moscow, Russia (former USSR)

Ivanovo Medical Institute, Ivanovo, Russia (former USSR)

Institute of Human Morphology, Russian Academy of Medical Sciences, Moscow, Russia (former USSR)

Russian Cardiology Center, Moscow, Russia (former USSR).

Academic Jury Committee: Institute of Human Morphology Russian Academy of Medical Sciences; Moscow State University, 2<sup>nd</sup> Moscow Medical University after named Pirogov, Moscow; Ivanovo Medical Institute after named Bubnov, Ivanovo Russia

Ph.D. Advisor: Professor Alexander Alexandrovich Mironov, MD&PhD, D.Sc.

Brief Summary:

The aim of this thesis is to consider the role of endothelium in the establishment of injury induced by ischemia and reperfusion with particular emphasis on the aorta and vascular beds. We describe the main abnormalities found in the macro- and microcirculation under these conditions and recommend various theories put forward to explain the mechanism by which endothelial cell injury is induced. Endothelial cells play a key role in maintaining blood pressure and patent and functional capillaries. When blood vessels are damaged, they become



unresponsive to vasodilatory stimuli and intraluminal thrombosis may occur. The relative contribution of platelets and leukocytes in the formation of final ischemic damage is clearly shown, using complex ultrastructural, biochemical and functional techniques in the context of postischemic vascular lesions. Furthermore, the role of reperfusion in causing damage to post-ischemic aortic and vascular beds is considered as well. The degree to which post-ischemic injury is reversible defines the opportunity for therapeutic intervention. **For the first time we have developed Morphometric and Functional criteria for determining the reversibility of endothelial cell damage, which can be applied in the area of cardiovascular and cerebrovascular diseases and vascular graft transplantation.**

### **APPENDIX III: CITATION ANALYSIS**

#### **Institute for Scientific Information Citation Database (ISICD)**

However, Search Full Length of the Citation Index in progress and table has not yet finished. The estimate number of entire citation close to 15,000.

&

<http://scholar.google.com/scholar?q=Aliev+G&ie=UTF-8&oe=UTF-8&hl=en>

[http://scholar.google.com/citations?user=a\\_TYBosAAAAJ&hl=en&oi=ao](http://scholar.google.com/citations?user=a_TYBosAAAAJ&hl=en&oi=ao)

**Cited by 12351, including since between 2011-2016 (September 25, 2016).**

**Citation indices**

	All	Since 2011
<a href="#">Citations</a>	12351	7530
<a href="#">h-index</a>	45	35
<a href="#">i10-index</a>	92	68

E-mail: [bachurin@ipac.ac.ru](mailto:bachurin@ipac.ac.ru)

**Dr. Russell H. Swerdlow, MD**

Professor, Department of Molecular & Integrative Physiology,  
Kansas University Medical Center, Landon Center on Aging, KS 2012. 3901 Rainbow Blvd  
Kansas City, KS 66160-7401  
913-945-6632 (direct line); 913-588-6970  
913-588-0681 (fax)  
Email: [rswerdlow@kumc.edu](mailto:rswerdlow@kumc.edu)

**Dr. Nagendra Sastry Yarla, PhD,**

Leading Researcher  
GITAM University, Vishakhapatnam,  
Andhra Pradesh, India  
E-mail: [sastryyn@gmail.com](mailto:sastryyn@gmail.com)

**Dr. Jerzy Leszek, M.D, Ph.D.**

Professor of Psychiatry,  
Department of Psychiatry Wrocław Medical University,  
Wrocław, Poland  
**E-mail:** [jleszek@psych.am.wroc.pl](mailto:jleszek@psych.am.wroc.pl)

**Dr. Ghulam Md Ashraf, PhD**

Assistant Professor  
Proteomics and Structural Biology Unit (PSB)  
Fundamental and Applied Biology Group (FAB)  
King Fahd Medical Research Center (KFMRC)  
King Abdulaziz University (KAU), P.O. Box 80216  
Jeddah 21589, Kingdom of Saudi Arabia  
E-mail: [ashraf.gm@gmail.com](mailto:ashraf.gm@gmail.com)

**George E. Barreto, M.Sc., PhD.**

Professor, Neurosciences  
Department of Nutrition and Biochemistry  
Faculty of Sciences  
Pontificia Universidad Javeriana  
Bogotá, D.C., Colombia  
Email: [gesbarreto@gmail.com](mailto:gesbarreto@gmail.com)  
[gsampaio@javeriana.edu.co](mailto:gsampaio@javeriana.edu.co)

**REFERENCES:**

**Dr. R.-L. Etienne Barnett, Ph.D. (USA), Ph.D. (France)**

Former University Provost  
Executive Vice-President of Operations  
Chairman, University Executive Board  
University of Atlanta  
6455 E. Johns Crossing, Suite 175  
Johns Creek, GA 30097, USA  
**Email:** [RL\\_Barnett@msn.com](mailto:RL_Barnett@msn.com)

**Professor Sergey O. Bachurin, PhD, D.Sc.**

Member of Russian Academy of Sciences  
Director of the Institute of Physiologically Active Compounds.  
and Professor & Head of Neurochemistry Laboratory  
Institute of Physiologically Active Compounds.  
Russian Academy of Sciences  
Severniiy Proezd, 1, Moscow Region, Chernogolovka,  
Russian Federation, 142432  
Tel/Fax: +7(496)524-9508

**Dr. Ramón Cacabelos M.D., Ph.D., D.M.Sc.**

Vice Rector for Research Camilo José Cela  
University Professor & Chairman EuroEspes  
Biomedical Research Center, Institute for CNS  
Disorders and Genomic Medicine EuroEspes Chair of  
Biotechnology and Genomics  
Sta. Marta de Babío, s/n 15165 Bergondo, La  
Coruña, Spain  
[T] +34 981 780 505 [F] +34 981 780 511  
E-mail : [rcacabelos@euroespes.com](mailto:rcacabelos@euroespes.com)

**Professor Geoffrey Burnstock PhD DSc FAA  
FRCS(Hon) FRCP (Hon) FMedSci FRS**

Autonomic Neuroscience Centre, University College  
Medical School, Rowland Hill Street, London NW3  
2PF, UK & Department of Pharmacology, Melbourne

University, Australia  
Tel: 020 7830 2948 ; Fax: 020 7830 2949  
E.mail: [g.burnstock@ucl.ac.uk](mailto:g.burnstock@ucl.ac.uk)

**Dr. Yi Li, Ph.D.**

Assistant Professor  
Department of Human Sciences  
Texas A&M University-Kingsville, TX, USA  
Phone: 361-593-2204,  
Email: [yi.li@case.edu](mailto:yi.li@case.edu), [yi.li@tamuk.edu](mailto:yi.li@tamuk.edu)

**Dr. Marco G. Alves, PhD**

Health Sciences Research Centre (CICS-UBI)  
Faculty of Health Sciences  
University of Beira Interior, Av. Infante D. Henrique  
6201-506 Covilhã, Portugal  
Tel: +351 96 7245248  
E-mail: [alvesmarc@gmail.com](mailto:alvesmarc@gmail.com)

**Dr. Valentin Bragin, MD&PhD**

Founder and President  
Stress Relief and Memory Training Center,  
Brooklyn, New York, USA  
(917) 495-8649  
E-mail: [val11235@yahoo.com](mailto:val11235@yahoo.com),  
[val11235@gmail.com](mailto:val11235@gmail.com)

**Dr. Resia Pretorius, PhD**

Professor, Department of Physiology  
Faculty of Health Sciences  
University of Pretoria, Private Bag X323,  
ARCADIA, 0007, SOUTH AFRICA  
Tel: +27 12 420 2864 , Fax: +27 12 420 4483  
Cell: +27 82 929 5041  
E-mail: [Resia.Pretorius@up.ac.za](mailto:Resia.Pretorius@up.ac.za)

**Professor Nariman F. Salakhutdinov, PhD, DSc.**

Head of Department of Medicinal Chemistry  
Novosibirsk Institute of Organic Chemistry  
Lavrentjev Avenue, 9, Novosibirsk, 630090,  
Russia.  
Phone: +79139122986  
E-mail: [anvar@nioch.nsc.ru](mailto:anvar@nioch.nsc.ru),  
[n.salakhutdinov@gmail.com](mailto:n.salakhutdinov@gmail.com)