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## REVAZ SOLOMONIA

### CURRICULUM VITAE

#### I. PERSONAL DATA

Name ..... Revaz Solomonias  
 Date of Birth..... 28, May, 1956  
 Place of Birth ..... Tbilisi, Republic of Georgia (former USSR)  
 Citizenship..... Republic of Georgia  
 Sex..... Male  
 Marital status..... Married: Wife –Tamar Kiguradze;  
 Daughters –Tina Solomonias and Mariam Solomonias  
 Academic Title..... Doctor of Science, Professor  
 Knowledge of languages... Georgian, Russian, English (fluently)  
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#### II. PROFESSIONAL EDUCATION AND ACADEMIC DEGREES

1973-1978 Tbilisi State University, Faculty of Biology, Department  
 of Biochemistry  
 1978 ..... Diplomed Biologist, Tbilisi state University,  
 Chavtchavadze Avenue 1, Tbilisi, Republic of Georgia  
 1978-1982 Post-graduate student at the Institute of Molecular  
 Biology, Moscow  
 1983..... Candidate of Biological Sciences (Ph.D), “ Purification  
 and Characterisation of cyclic-nucleotide independent  
 protein kinase from the myxomycete *Physarum*  
*Polycephalum*” Moscow State University, USSR  
 1992..... Doctor of Biological Sciences (Science Doctor)  
 “Neuroreception and glycosylation reactions after visual  
 imprinting in chicks” Institute of Physiology, Tbilisi  
 (USSR)

#### III. PROFESSIONAL EXPERIENCE AND POSTDOCTORAL TRAINING

1982 - 1985 Junior Scientific Fellow, Institute of Physiology,  
 Georgian Academy of Sciences, Tbilisi  
 1985 - 1986 International Training Courses organised by UNESCO  
 and Hungarian Academy of Sciences, Institute of  
 Biochemistry, Szeged, Hungary

1986-1991 Senior Scientific Fellow, Institute of Physiology,  
Georgian Academy of Sciences, Tbilisi  
1992-1997 Leader Scientific Fellow, Institute of Physiology,  
Georgian Academy of Sciences, Tbilisi  
1997-till present Head of Biochemical Neuropharmacology group  
I. Beritashvili Centre of Experimental Biomedicine  
(former Institute of Physiology), Tbilisi  
1999-2005 Professor at the Department of Biochemistry, Iv.  
Javakhishvili Tbilisi State University  
2006-2010 Full Professor of the Faculty of Life Sciences,  
Ilia Tbilisi State University (parallel in  
position at the Institute of Physiology)  
2010 –till present Full Professor and Director of the Institute of  
Chemical Biology at Ilia Tbilisi State University  
(parallel in position at the Institute of Physiology)

#### IV. INTERNATIONAL GRANTS

\*1994-1996. Wellcome Trust Travel Fellowship, Department of Zoology,  
Cambridge University (RN -0338892/2/93 and extension 038899)

\*1997-1998. Wellcome Trust collaborative Research Initiative grant with the  
Department of Zoology, Cambridge University “Tyrosine kinase signalling pathways,  
neural cell adhesion molecules and long-term memory”(RN- 047694/Z/96)

\*1997-2000. INTAS grant “ Fast-responding Microbiosensors for recognition  
memory brain research” (RN-96-1432)

\*1999. 6 month Wellcome Trust travel award at the Department of  
Biochemistry, Cambridge University “Gene expression and  
long-term memory (RN -056634/Z/99/Z)

\*2001-2004. International Science and Technology Center (ISTC), “Isolation and  
characterization of compounds with antiepileptic activity from *Aquilegia Vulgaris* –  
the plant widely used in oriental folk medicine” (RN G-420)

\*2001-2003. The Royal Society joint project with Sub-department of Animal  
Behaviour, Cambridge University “ Ca<sup>2+</sup>/calmodulin dependent protein  
kinase II and recognition memory in chicks” (RN gt/FSU/JP)

\*2001-2002. “Georgian Awareness and Training Network” project (proposal ICA2  
2000-50004; contract ICA2-CT2001-50002) funded by European Commission

\*2002-2005 INTAS grant “High-Resolution lateral imaging of Neurological  
Activity using novel sensitive microbiosensors ( RN 2001-2065)

\* 2006-2008. The Royal Society joint project with Sub-department of Animal  
Behaviour, Cambridge University “Ca<sup>2+</sup>/calmodulin dependent protein  
kinase II signaling, learning and memory (RN 2005R4/-JP)

\* 2005-2008. Defense Threat Reduction Agency and U.S. Civilian Research and  
Development Foundation “Ecology, Genetic Clustering and Virulence of *Yersinia  
pestis* Strains Isolated from Natural Foci of Plague in Georgia” (RN (GEB2-1953-TB-  
05), Manager from the I. Beritashvili Institute of Physiology

\* 2008-2010 Georgian National Science Foundation “Gene expression and  
Recognition memory” (RN-N235) Principal Investigator and manager of the project

\* 2009-2012 Defense Threat Reduction Agency and U.S. Civilian Research and  
Development Foundation „Ecology, Genetic Clustering and Virulence of major

bacterial and viral pathogens in the Republic of Georgia“ (RN- G E B 2 - 1 9 6 4 - T B - 0 9) Manager from the I.Beritashvili Institute of Physiology

\*2013-2016 Sh.Rustaveli Science Foundation “ Molecular Mechanism of Recognition Memory” (RN 01/31)

\* 2013-2016, Defense Threat Reduction Agency and U.S. Civilian Research and Development Foundation, „Epidemiology and Ecology of Tularemia in Georgia” GG-19

\* 2014, Defense Threat Reduction Agency (Threat Agent Detection and Response ) Activity Project N6). “Atypical *Y. pestis* strains isolated from natural foci in Georgia: from proteome to virulence and gene expression”.

\* 2014-2016 Defense Threat Reduction Agency and U.S. Civilian Research and Development Foundation”Creation of Sustainable Immunodiagnosics” . GG-23

\* 2014-2016- Defense Threat Reduction Agency and U.S. Civilian Research and Development Foundation “Centre for pathogen research and education”

\* 2016-2019. Sh.Rustaveli National Science Foundation “ Molecular Mechanism of visual imprinting in chicks” (RN 217592)

#### **PARTICIPATION IN OTHER INTERNATIONAL GRANTS:**

\* 2002-2005, International Science and Technology Center (ISTC) “ Prevention of Amebiasis and creation of diagnostic test-systems for *E.histolytica* strains isolated in Georgia” (RN G-617p), group leader from the Institute of Physiology

#### **MEMBERSHIPS OF PROFESSIONAL SOCIETIES**

- Association of Georgian Biochemists (FEBS constituent Member), President
- FEBS Education Ambassador
- Society for Neuroscience
- International Brain Research Organisation

#### **Conference Coordination**

FEBS workshop on Molecular Life Sciences Education, Tbilisi, Georgia October 2013, Coordinator from Association of Georgian Biochemists

#### **Awards**

FEBS National Lecture Award -2017

#### **V. PUBLICATIONS (ARTICLES)**

1.Solomoniya R.O., Nesterova M.V., Kostyuk D.G., Severin E.S. “Purification and Some Physico-chemical Properties of Cyclic-Nucleotide Independent Protein Kinase From the Myxomycete *Physarum Polycephalum*”. *Biochemistry International* 3, (1981): 147-155

2. Nesterova M.V., Solomoniya R.O., Severin E.S. “Cyclic Nucleotides in the Regulation of Cellular Division”. *Advances in Biological Chemistry* (In Russian, USSR), v XXII, (1982): 63-75

3. Solomoniya R.O., Nesterova M.V., Severin, E.S. “Study of Certain Physico-Chemical Properties of Cyclic – Nucleotide Independent Protein Kinase from the Myxomycete *Physarum Polycephalum*”. *Biochemistry* (in Russian, USSR), 47, (1982): 1552-1556

4. Solomonias R.O., Mikeladze D.G. "Synaptosomal Glycoprotein Synthesis in Chicken Brain After Imprinting". *Neurochemistry* (in Russian, USSR), 5, (1986): 293-297.
5. Solomonias R.O., Sobchinskaya N.M., Mikeladze, D.G. "Alteration of the Muscarinic Type Cholinoreceptor State in the Chick Brain After Imprinting". *Neurochemistry* (In Russian, USSR), 5,(1987): 293-297.
6. Abutidze K.D., Solomonias R. O., Mikeladze, D.G. "Study of Opioid Receptor System in Glial and Neuronal Cell Enriched Fraction". *Neurochemistry* ( In Russian, USSR), 6,(1987): 418-421.
7. Maderspach K., Solomonias R.O. "Glial and Neuronal Opioid Receptors: Apparent Positive Cooperativity Observed in Intact Cultured Cells". *Brain Research* 441 (1988): 41-47.
8. Solomonias R.O., Kondratiee A.D., Maderspach K. "Study of the Effects of Biogenic Amines on Glycoprotein Synthesis in Neuronal Culture from Chick Embryo Brain". *Neurochemistry* (In Russian, USSR), 7 (1988): 493-497.
9. Sobchinskaya N.M. Zaalishvili E.M., Solomonias R.O., Mikeladze D.G. "Study of Acetylcholinesterase Activity of Medio-Ventral Hyperstriatum During Imprinting in Chicks". *Proceedings of Georgian academy of Sciences, Biological Series* (In Russian, USSR) 15 (1989): 42-46.
10. Solomonias R.O., Machaidze G.G., Sobchinskaya N.M., Mikeladze D.G. "Changed Levels of Catecholamines in the Chick Brain During Imprinting". *Neurochemistry* (In Russian, USSR), 8 (1989): 20-27
11. Solomonias R.O., Adamia S.O., Sobchinskaya N.M., Mikeladze D.G. "Changes in Beta-Adrenoreceptor State of Chick Brain After Imprinting". *Neurochemistry* (In Russian, USSR) 8 (1989): 541-545
12. Machaidze G.G., Solomonias R.O., Adamia S.O., Mikeladze D.G. "Identification and Alteration in the Amount of Concanavalin-A Binding Glycoproteins of the Chick Brain After Visual Imprinting". *Proceeding of the Georgian Academy of Sciences, Biological Series* (In English, USSR), (1991): 253-257.
13. Solomonias R.O., Machaidze G.G., Mikeladze D.G. "On Some Biochemical Changes of the Chick Brain Membranes After Visual Imprinting". *Biological Membranes* (In Russian, USSR), 8, (1991): 1186-1187.
14. Solomonias R. O., Machaidze G. G., Mikeladze D. G. "Synthesis of Synaptosomal Glycoproteins of the Chick Brain After Visual Imprinting and Mechanisms of its Possible Neurotransmitter Regulation". In: "*Cellular Signalization*" (Edited by Kostyuk, P.G. & Ostrovski, M.A.), v. 1 (1991): 157-165
15. Solomonias R.O., Adamia S.O., Mikeladze D.G. "Changes in [3H] –Glutamate Binding With Chick Brain Membranes After Visual Imprinting". *Proceedings of the Georgian academy of Sciences, Biological Sciences*, (In Russian, USSR) 18 (1992): 315-320.
16. Solomonias R.O., Maderspach K., Abutidze K.D., Mikeladze D.G. "About the Presence of Opioid Receptors on Brain Glial Cells". In: "*Function of Neuroglia*" (Edited by Roitbak, A.I. & Ocherashvili, I.V.), Moscow, Kabur, (1993): 230-235.
17. Van der Zee E.A., Bolhuis J.J., Solomonias R.O. , Horn G., Luiten P.G.M. "Differential Distribution of Protein Kinase C (PKC alpha-beta and PKC gamma) Isoenzyme Immunoreactivity in the Chick Brain". *Brain Research* 676, (1995): 41-52
18. Solomonias R.O., McCabe B.J., Horn G. "A Time-Dependent, Learning-Specific Increase in the Amount of Neural Cell Adhesion Molecules (NCAMs) in Chick Forebrain After Visual Imprinting". *J. Physiology* 485 (1995): 8.
19. Mchedlishvili Z., Solomonias R., Mikeladze D. "Epileptic Seizures and (<sup>3</sup>H) Muscimol Binding in Different Brain Regions of Kroushinsky-Molodkina Rats". *Bulletin of the Georgian Academy of Sciences* 153, (1996): 91-94,.
20. Solomonias R., Mchedlishvili Z., Dalakishvili N. "Anticonvulsant Effect of Water Extract of *Aquilegia vulgaris* on Audiogenically Evoked Seizures in Kroushinsky- Molodkina Epileptic Rats". *Bulletin of the Georgian Academy of Sciences* 153 (1996): 270- 272.
21. Akhalkatsi R., Bolotashvili T., Solomonias R., Aleksidze N. "Identification of ConA Binding Proteins From Rat Brain Cellular Nuclei". *Bulletin of the Georgian Academy of Sciences* (In Russian) 154 (1996): 116-119.

22. Solomonias R.O., McCabe B.J., Jackson A.P., Horn G. "Clathrin Proteins and Recognition Memory". *Neuroscience* 80 (1997): 59-67
23. Solomonias R.O., McCabe B.J. and Horn G. "Neural Cell Adhesion Molecules, Learning and Memory in the Domestic Chicks". *Behavioural Neurosciences* 112 (1998): 646-655
24. Harvey R.J., McCabe B.J., Solomonias R.O., Horn G., Darlison M.G. "Expression of the GABAA Receptor  $\alpha 4$ -subunit Gene: Anatomical Distribution of the Corresponding mRNA in the Domestic Chick Forebrain and the Effect of Imprinting Training". *Eur. Journal of Neuroscience* 10 (1998): 3024-3028
25. Mchedlishvili Z., Kalandadze Kiguradze, T., Shanshiashvili L., Kotetishvili M., Solomonias R., Mikeladze D. "A gamma-aminobutyric Acid and alpha-subunit of  $Ca^{2+}$ /calmodulin Dependent Protein Kinase II in Different Brain Regions of Kroushinsky-Molodkina Rats". *Bulletin of the Georgian Academy of Sciences*, 158 (1998): 498-501.
26. Solomonias R.O., Kiguradze T. McCabe B.J., Horn G. "Neural Cell Adhesion Molecules, Calcium/Calmodulin-Dependent Protein Kinase II and Long-term Memory in Domestic Chicks". *Neuroreport* 14 no. 11 (2000): 31139-3143
27. Gabisiani Kh., Solomonias R., Bakhtashvili V. "Antioxidant Properties of the Plaferon-LB". *Bulletin of the Georgian Academy of Sciences* 162, no. 3 (2000): 572-575.
28. Gabisiani Kh., Devdariani M., Kurtskhalia E., Pipia N., Solomonias R., Mitagvaria N., Bakhtashvili V. "Influence of Plaferon-LB on the Infarction- Induced Peroxidation Processes". *Proceedings of Georgian Academy of Science, Biology Series* 26, no. 1-3, (2000): 39-44.
29. Mikeladze E., Schulte A., Mosbach A., Blochl E., Csoregi E., Solomonias R., Schuhmann W. "Redox Hydrogel-Based Bionzyme Microelectrode for Amperometric Monitoring of L-glutamate". *Electroanalysis* 14 (2002): 393-399.
30. Bolokadze N., Momtselidze N., Solomonias R., Mchedlishvili G. "In Vitro Effects of Malondialdehyde on the Erythrocyte Aggregation". *Proceedings of Georgian Academy of Science, Biology Series* 28 (2002): 483-487.
31. Solomonias R. Morgan K., Kotorashvili A., McCabe B.J., Jackson A.P., Horn G. "Analysis of Differential Gene Expression Supports a Role for Amyloid Precursor Protein and a Protein Kinase C Substrate (MARKCS) in Long-term Memory". *Eur. J. Neurosci.* 17 (2003): 1073-1081
32. Bolokadze N., Lobjanidze N., Momtselidze N., Solomonias R., Shakarishvili R., Mchedlishvili G. "Erythrocyte Aggregation and Lipid Peroxidation During Brain Insults". *Proceedings of Georgian Academy of Science, Biology Series* 29 no. 1-2 (2003): 1-6
33. Solomonias R. Bolokadze N., Varasashvili M., Salia N. Momtzelidze N. "Malondialdehyde in the Blood Plasma and Erythrocytes Under Condition of Increased Erythrocyte Aggregation Caused by High Molecular Dextran". *Proceedings of Georgian Academy of Science, Biology Series* 29 no. 1-2 (2003): 159-165
34. Kvitsinadze N., Kapanadze E., Tsinadze N., Davitashvili E., Solomonias R., Aleksidze N. "Influence of Galactose-Specific Lectin Isolated from Coriander on the Lipid Peroxidation in the Liver Cells and Erythrocytes". *Bull. Georg. Acad. Sci.* 167, no.3, (2003): 521-523.
35. Kvitsinadze N., Megrelishvili I., Tsinadze N., Balavadze M., Davitashvili E., Solomonias R., Aleksidze N. "Changes in Spectrum of Carbohydrate-Specificity of Prostate Membrane Lectins at Different Diseases". In: "Actual problems of Biology and medicine" Collection of works, Tbilisi, (2003): 74-77
36. Kuchiashvili N., Kotorashvili A., Solomonias R. "Epileptic Seizures in Kroushinski-Molodkina Strain of Rats is Associated With an Increased Activity of Cytoplasmic Calcium/Calmodulin-Dependent Protein Kinase II in Inferior Colliculi". *Proceedings of Georgian Academy of Science, Biology Series* 30, no. 1 (2004): 85-89
37. Kotorashvili A., Kuchiashvili N., Apkhazava D., Solomonias R. "Epileptic Seizures and Membrane Calcium/Calmodulin-Dependent Protein Kinase II in Different Brain Regions of Kroushinski-Molodkina Rats". *Proceedings of Georgian Academy of Science, Biology Series* 30, no. 1 (2004): 71-75

38. Bolokadze N., Lobjanidze N., Momtselidze N., Solomonias R., Shakarishvili R., Mchedlishvili G. "Blood Rheological Properties and Lipid Peroxidation in Cerebral and Systematic Circulation of Neurocritical Patients". *Clinical Hemorheology and Microcirculation* 30, no. 2 (2004): 99-105
39. Kvitsinadze N., Muradashvili M., Davitashvili E., Solomonias R., Aleksidze G., Gogvadze M., Tsintsadze O., Managadze L., Karazanashvili M., Aleksidze N. "Isolation and Characterization of Cytoplasmic Proteins with Lectin Activity From Prostate Fiber-Muscular Tissue at Different Pathologies". *Bulletin of the Georgian Academy of Sciences*, 169 (2004): 360-362
40. Bolokadze N. & Solomonias R. "Investigation of the Lipid Peroxidation During the Stroke". *Bulletin of the Georgian Academy of Sciences* 169, (2004): 406-408
41. Bolokadze N., Varasahvili M., Salia N., Momtselidze N., Solomonias R., Mchedlishvili G. "Lipid Peroxidation in the Erythrocytes Under Condition of Their Increased Aggregation". *Clinical Hemorheology and Microcirculation*. 30, no. 3-4 (2004): 453-455.
42. Kuchiashvili N., Berulava A., Mamulaishvili I., Solomonias R. "Epileptic Seizures and Benzodiazepine Binding Site of gamma-aminobutyric Acid Receptor in Different Brain Regions of Kroushinsky-Molodkina Rats". *Proc. Georgian Acad.Sci., Biol.Ser.* 30 (2004): 511-515
43. Kuchiashvili N., Apkhazava D., Bolkvadze T., Berulava A., Solomonias R. "Effects of myo-Inositol on Pentylentetrazole-Induced Convulsions in Rats". *Proc. Georgian Acad.Sci., Biol.Ser.* 30,(2004): 643-646
44. Solomonias R., Kuchiashvili N., Berulava A., Pkhakadze V., Trapaidze N., Zhvania M., Abesadze I., Kojima H., Dalakishvili N. "Purification and Identification of Components of the *Aquilegia Vulgaris* Extract Fraction Exhibiting Anti-Epileptic Activity". *Journal of Biological Physics and Chemistry* 4, (2004): 185-192.
45. Surguladze N., Koshoridze N., Solomonias R. "The Influence of the Vesicular Inositol-Specific Lectin on the Bovine Brain Neurostenin  $Ca^{2+}$ ,  $Mg^{2+}$ -ATP-ase Activity". *Bulletin of the Georgian Academy of Sciences* 171, (2005): 544-547.
46. Solomonias R., Kotorashvili A., Kiguradze T., McCabe B.J., Horn G. "Ca<sup>2+</sup>/calmodulin Protein Kinase II and Memory: Learning-Related Changes in a Localized Region of the Domestic Chick Brain". *J Physiol.* 569, (2005): 643-653
47. Zhvaniya M.G., Bolkvadze T.A., Dzhaparidze N.D., Solomoniya R.O., Kuchiashvili N. "Effect of Kindling on GABAergic Neurons of the Hippocampus and Piriform Cortex". *Bulletin of Experimental Biology and Medicine* 140 (2005): 57-59
48. Nozadze M., Bolkvadze T., Demetrashvili N., Solomonias R. "Myo-Inositol Treatment and Myristoylated Alanine-Rich Protein Kinase C Substrate Phosphorylation in Rat Brain". *Proc. Georgian Acad.Sci., Biol.Ser.* 30, (2005): 717-720
49. Megrelishvili I., Kvitsinadze N., Davitashvili E., Solomonias R., Aleksidze N., Balavadze M., Karazanashvili G., Managadze L., Tsintsadze O., Gogvadze M. "Study of Lectin Activity in Subcellular Fractions of Fiber-Muscular Tissue of a Prostate in Various Pathologies". *Proc. Georgian Acad.Sci., Biol.Ser.* 31 (2005): 859-864
50. Nozadze M., Kiladze M., Bolkvadze T., Mikeladze E., Zhvania M., Solomonias R. "Effects of myo-Inositol on Kainic Acid-Induced Convulsions in Rats". *Proc. Georgian Acad.Sci., Biol.Ser.* 32 (2006): 379-38
51. Solomonias R., Nozadze M., Mikautadze E., Kuchiashvili N., Pkhakadze V., Mamulaishvili I. "Quantitative Changes in the Amounts of Calcium/Calmodulin-Dependent Protein Kinase II and Heat Shock Protein 90 in the Hippocampus of Rats After Status Epilepticus Induced by Kainic Acid". *Proc. Georgian Acad.Sci., Biol.Ser.* 31 (2006): 409-413
52. Kvitsinadze N., Megrelishvili I., Davitashvili E., Solomonias R., Aleksidze N., Karazanashvili G. "Modulatory Effect of Zinc on Lipid Peroxidation in Mitochondria and Microsoms of a Human Prostate Tissue During Various Pathologies". *Proceedings of the Georgian Academy of Sciences* 32 (2006): 319-323
53. Solomonias R., Nozadze M., Kuchiashvili N., Bolkvadze T., Kiladze M., Zhvania M., Kiguradze T., V. Pkhakadze. "Study of Effects of myo-Inositol on Pentylentetrazol and

- Kainic Acid Induced Convulsions in Rats”. *Bulletin of Experimental Biology and Medicine* 143 (2007): 58-60.
54. Koshoridze N., Menabde K., Surguladze N., Vardiashvili T., Solomoniia R., Aleksidze N. “The Influence of Endogenous Lectins on the Activity of the HCO<sub>3</sub>- ATP-ase of the Brain”. *Ukrainian Biochemical Journal* 79 (2007): 13-18
55. Zhvaniia M.G., Solomoniia R.O., Bikashvili T.Z., Kotaria N.T., ChkhikvishviliTs.G, Kiladze M.T., Nozadze M.B., Dzhaparidze N.D. “The Influence of myo-inositol on the Ultrastructure of Hippocampal CA1 Area in Kainate Treated Rats”. [in Russian] *Tsitologiya*.49, no.11 (2007): 939-43
56. Solomonia R., Nozadze M., Mikautadze E., Kuchiashvili N., Kiguradze T., Abkhazava D., Pkhakadze V., Mamulaishvili I., Mikeladze E., Avaliani N. “Effect of Oleamide on Pentylentetrazole-Induced Seizures in Rats”. *Bulletin of Experimental Biology and Medicine* 145 (2008):225-228.
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58. Zhvania M.G., Bolqvadze T, Solomonia R.O., Kuchiashvili N, Japaridze N.J. “Effect of Acoustic Stimulation on GABAergic Neurons in Limbic Structures of Krushinskii-Molodkina Rats”. *Bull Exp Biol Med*. 145 (2008):398-400.
59. Solomonia R., Mikautadze E., Nozadze M., Kuchiashvili N., Lepsveridze E., Kiguradze T. “Myo-Inositol Treatment Prevents Biochemical Changes Triggered by Kainate-Induced Status Epilepticus”. *Neuroscience Letter* 468 (2010): 277-281
60. Davitashvili E., Kvitsinadze N., Megrelishvili I., Karazanashvili G., Solomonia R., Aleksidze N. “Influence of Beta-Galactose-Specific Mitochondrial Lectins From Prostate Hyperplasic Tissue on Mitochondrial Properties.” *The Scandinavian Journal of Clinical & Laboratory Investigation* 70, (2010): 33-39
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62. Kharlamov EA., Lepsveridze E., Meparishvili M., Solomonia RO., Lu B., Miller ER., Kelly KM., Mtchedlishvili Z. “Alterations of GABA(A) and Glutamate Receptor Subunits and Heat Shock Protein in Rat Hippocampus Following Traumatic Brain Injury and in Posttraumatic Epilepsy”. *Epilepsy Research*. 95(2011):20-34
63. Solomonia RO., Kunelauri N., Mikautadze E., Apkhazava D., McCabe BJ., Horn G. (2011) Mitochondrial Proteins, learning and Memory: Biochemical Specialization of a Memory System” *Neuroscience* 194,112-123
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65. Solomonia, R., Gogichaishvili, N., Nozadze M., Lepsveridze E., Dzeladze D., Kiguradze T. (2013) Myo-Inositol Treatment and GABA-A Receptor Subunit Change After Kainate-Induced Status Epilepticus. *Cellular and Molecular Neurobiology*, 33, 119-127
66. Solomonia RO, Meparishvili M, Mikautadze E, Kunelauri N, Apkhazava D, McCabe BJ. (2013) AMPA receptor phosphorylation and recognition memory: learning-related, time-dependent changes in the chick brain following filial imprinting. *Exp Brain Res*.226(2):297-308
67. Kotaria N, Kiladze M, Zhvania MG, Japaridze NJ, Bikashvili T, **Solomonia** RO, Bolqvadze T. (2013) The protective effect of Myo-Inositol on hippocampal cell loss and structural alterations in neurons and synapses triggered by kainic acid-induced status epilepticus. *Cell Mol Neurobiol*. 33(5):659-71
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71. Meparishvili M, Nozadze M, Margvelani G, McCabe BJ and Solomonias RO (2015) A Proteomic Study of Memory After Imprinting in the Domestic Chick. *Front. Behav. Neurosci.* 9:319. doi: 10.3389/fnbeh.2015.00319
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