

Iskhakova, Liliya A.

Postdoctoral Fellow

DOB: 31-1-1979

Email: Liliyal@ekmd.huji.ac.il

Hadassah Medical School

Dept. Medical Neurobiology

P.O. Box 12272

Jerusalem, Israel, 91120

Tel: 02-675-7387

Fax: 02-643-9736



Education:

- 2016-2017 Class: Fundamentals in Drug Development
TEVA Pharmaceuticals Industries, Ltd.
Tel Aviv University, Tel Aviv, Israel
- 2002-2009 Doctorate of Philosophy in Neuroscience
Division of Neuroscience, Emory University, Atlanta, GA, USA
Thesis: *Microcircuitry of Group III Metabotropic Glutamate Receptors (mGluRs) in the striatum.*
Supervisor: Dr. Yoland Smith
- 2008 Audited classes
“Patent, Practice and Procedure”
“Intellectual Property: Patents, Copyrights, and Trademark”
Emory Law School, Atlanta, GA, USA
- 2001-2002 Post-Baccalaureate Studies
Yerkes National Primate Research Center
Emory University, Atlanta, GA, USA
- 1997-2001 Bachelor of Science, Oglethorpe University, Atlanta, GA
Major: Biology

Employment and Other Positions:

- 2014-Present Post-Doctoral Fellow
Department of Medical Neurobiology
The Hebrew University-Hadassa Medical School
P.O.B 12272 Jerusalem, Israel 91120
Laboratory of Professor Hagai Bergman M.D., Ph.D.
- 2011-2014 Adjunct Professor
School of Science and Technology
Georgia Gwinnett College
Lawrenceville, GA, USA
- 2008-2011 Patent Research
Cardinal Intellectual Property
Chicago, IL, USA

2000-2011 Patient Advocate/Health Consultant
King David Community Center
Norcross, GA, USA

2006-2007 Advisor
Emory University Student Health Insurance Commission
1525 Clifton Rd, Atlanta, GA, USA

2001-2002 Research Assistant
Laboratory of Yoland Smith, PhD
Yerkes National Primate Research Center
Emory University, Atlanta, GA, USA
Project: *Subcellular and Subsynaptic Localization of Group II Metabotropic Glutamate Receptors (mGluRs) 2 and 3 in the Monkey Striatum.*

2000-2001 Laboratory Assistant
Human Movement Study Center
Georgia Institute of Technology
Atlanta, GA, USA

2000 Laboratory Assistant
GATES Hemophilia Study
Centers for Disease Control and Prevention (CDC)
Atlanta, GA, USA

Publications:

Deffains M, **Iskhakova L**, Katabi S, Israel Z, Bergman H. Longer β oscillatory episodes reliably identify pathological subthalamic activity in Parkinsonism. *Mov Disord.* 2018 Oct; 33(10):1609-1618

Deffains M, **Iskhakova L**, Katabi S, Haber S, Israel Z, Bergman H. Subthalamic, not striatal, activity correlates with basal ganglia downstream activity in normal and parkinsonian monkeys *Elife.* 2016 Aug 23.

L. Iskhakova, P. Rappel, H. Bergman, *Understanding the pathophysiology of Schizophrenia: A study of acute dopamine level manipulation on learning behavior and neurophysiology of the Frontal Cortex and Basal Ganglia*, Teva NNE 2016 Annual Meeting, December 2016

L. Iskhakova, Y. Smith, *MGluR4-Containing Corticostriatal Terminals: Synaptic Interactions with Direct and Indirect Pathway Neurons in Mice*, *Brain Struct Funct.* January 30, 2016

James E. Russell, Allison R. D'Costa, Clay Runck, David W. Barnes, **Liliya A. Iskhakova**, Alessandra L. Barrera, Jennifer Hurst-Kennedy, Elizabeth B. Sudduth, Erin L. Quinlan, and Mark Schlueter; *Bridging the Undergraduate Curriculum Using an Integrated Course-Embedded Undergraduate Research Experience (ICURE)*; *CBE Life Sciences Education*; March 2, 2015 14:ar4

M. Deffains, **L. Iskhakova**, H. Bergman; *Stop and Think about Basal Ganglia Functional Organization: The Pallido-Striatal "Stop" Route.* *Neuron.* 2016 Jan 20; 89(2):237-9

L. Iskhakova, H. Bergman, *Understanding the pathophysiology of Schizophrenia: A study of acute and chronic dopamine level manipulation on the functional connectivity of the frontal cortex and the basal ganglia*. Teva NNE 2015 Annual Meeting: Neuroscience Connect, December, 2015

L. Iskhakova, P. Rappel, D. Arkadir, R. Eitan, Z. Israel and H. Bergman, *Computational physiology of the basal ganglia, movement disorders and their therapy*. In: Movement Disorders Curricula, edited by Cristian Falup-Pecurariu, Joaquim Ferreira, Pablo Martinez-Martin, Ray Chaudhuri, published by Springer 2015.

P. Gubellini, **L. Iskhakova**, Y. Smith, M. Amalric, *Metabotropic glutamate receptors and Parkinson's disease: basic and preclinical neuroscience*, In: mGlu Receptors, published: 2015

M. Deffains, **L. Iskhakova**, S. Katabi, H. Bergman, *Persistent increase-decrease balance of activity in basal ganglia*. French Neuroscience Society, 2015

L. Iskhakova, H. Bergman, *Understanding the pathophysiology of Schizophrenia: A study of the effects of acute and chronic manipulation of dopamine levels on the functional connectivity of the frontal cortex and the basal ganglia in the primate models of Schizophrenia*. Israel Advanced Technology Industries (IATI) Biomed Conference, 2015

A. D'Costa, D. Barnes, A. Barrera, J. Hurst-Kennedy, **L. Iskhakova** & L. Hammonds-Odie, *Course-embedded research experiences to explore the mechanism of action of drugs that affect the cell cycle*. American Society for Cell Biology Meeting, 2013

L. Iskhakova, J.F.Pare, Y. Smith, *Microcircuitry of Group III Metabotropic Glutamate Receptors (mGluRs) in the striatum*. SFN Meeting, 2006

L. Iskhakova, R. Betarbet, S. Lund, N. Bence, R. Kopito, J.T. Greenamyre, *Rotenone Models of Parkinson's Disease: Proteasomal Activity and Protein Accumulation Following Sustained Rotenone Treatment*. SFN Meeting, 2003

L. Iskhakova, M. Paquet, J.F. Pare, Y. Smith, *Subcellular Localization of Group II mGluRs in the Monkey Striatum*, SFN Meeting, 2002

Symposium (co-)chair and invited speaker

- | | |
|------------|---|
| 14-12-2015 | Controversies in Neuroscience: Animal models are not needed for drug development in Neurology; Co-chair of Panel, Teva Annual Conference, Jerusalem, Israel |
| 13-5-2015 | Teva Talks, Israel Advanced Technology Industries (IATI) Biomed Conference, Tel Aviv, Israel. |

Grants and Awards:

- | | |
|-----------|--|
| 2015-2016 | Post-Doctoral Grant; Israel Ministry of Immigration |
| 2015-2016 | Post-Doctoral Grant; Teva National Network of Excellence. |
| 2014-2016 | Post-Doctoral Grant; Edmond and Lily Safra Center for Brain Sciences |
| 2014-2015 | Post-Doctoral Grant; Israel Ministry of Immigration |

Committees and Advisory Boards:

- | | |
|------|---|
| 2015 | Teva Scientific Committee, Petach Tikva, Israel |
|------|---|

Memberships in professional societies:

Member, International Basal Ganglia Society, Spring, 2004-2009

Member, Society for Neuroscience, Fall 2001 – 2009

Member, Phi Delta Epsilon Medical Society, Fall, 1999 – Spring, 2001