

GEORGIY YUDINTSEV
Curriculum Vitae

Contact Information

2514 Beckman Institute
405 North Mathews Avenue
Urbana, Illinois 61801

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cell: (217) 417-5663

Education

- 05/14-present **Ph.D. Candidate, Neuroscience Program**
University of Illinois at Urbana-Champaign | GPA: 4.00
Committee Chair: Prof. Mark Nelson
Director of Research: Prof. Daniel A. Llano
- 08/09-05/13 **B.S., Molecular and Cellular Biology, Honors Concentration**
University of Illinois at Urbana-Champaign
- 01/09-08/09 **Advanced Level ESL Certificate**
Intensive English Institute
University of Illinois at Urbana-Champaign
- 9/06-12/08 **Biology and Education**
Karaganda State University, Karaganda, Kazakhstan

Research

- 05/14-present **Graduate Researcher**
Beckman Institute, Urbana, IL
Current project involves unraveling the differences and characterizing the heterogeneity between layer 5 and layer 6 corticocollicular neurons in the mouse cortex using modern anatomical tract-tracing, and *in vivo* calcium imaging (GCaMP6s transgenic mice).
- 05/13-05/14 **Laboratory Technician**
Beckman Institute, Urbana, IL
Project: "In-vivo Flavoprotein Imaging Study of the Auditory-Evoked Responses in the Mouse Auditory Cortex."
- 01/11-05/13 **Undergraduate Researcher, Beckman Institute**
Senior Thesis: "Differential Projections of the Auditory Cortical Neurons from Layers V and VI to the Inferior Colliculus."
- 05/12-08/12 **Mayo Clinic Summer Research Fellow**
Mayo Clinic, Rochester, MN
Project: "Modeling Chemotherapy-Induced Peripheral Neuropathy in *D. melanogaster*."
- 12/07-12/08 **Laboratory Research Assistant**
Project: "Assessment of Heavy Metals Concentration in Karaganda Population."
National Center for Professional Diseases and Prevention, Karaganda, Kazakhstan.

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Publications

1. Patel, Mili B., Stacy Sons, **Georgiy Yudintsev**, Alexandria MH Lesicko, Luye Yang, Gehad A. Taha, Scott M. Pierce, and Daniel A. Llano. (2016) "Anatomical characterization of subcortical descending projections to the inferior colliculus in mouse." *Journal of Comparative Neurology*.
2. Podratz, J. L., H. Lee, P. Knorr, S. Koehler, S. Forsythe, K. Lambrecht, S. Arias, K. Schmidt, G. Steinhoff, **G. Yudintsev**, A. Yang, E. Trushina and A. Windebank (2016). "Cisplatin induces mitochondrial deficits in Drosophila larval segmental nerve." *Neurobiology of Disease*.
3. B.J. Slater, S. Sons, **G. Yudintsev**, D. Llano. "Thalamocortical and intracortical inputs differentiate layer-specific mouse auditory corticocollicular neurons." (In preparation).
4. D. Llano, C. Ma, U. Di Fabrizio, K. Stebbings, **G. Yudintsev**, R Kenyon and T Berger-Wolf. "A novel dynamic network imaging analysis method reveals aging-related fragmentation of cortical networks in mouse." (In preparation).
5. **Yudintsev, G.** and Llano, D.A. "Analysis of heterogeneity within the corticocollicular system." (In preparation).

Book chapters

1. **Yudintsev G.**, Lee C.M., Asilador A. and Llano D.A. (2017) "Guide to transcranial *in vivo* imaging of sound-evoked activity in the auditory cortex of GCaMP6s mice" In *Neuromethods: Basic Neurobiology Techniques*. Wright N. ed. Springer Publishers. (Invited, submitted).

Conference proceedings

1. Patel, Mili B., Luye Yang, Gehad A. Taha, Daniel A. Llano, Alexandria MH Lesicko, and **Georgiy Yudintsev**. (2015) The thalamotectal system: An ancient projection for modulating the auditory midbrain. In *Proceedings of Meetings on Acoustics*, vol. 25, no. 1, p. 010004. Acoustical Society of America.

Conferences and presentations

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| 14-19 Nov, 2014 | Society for Neuroscience, Washington, DC, Nov. 19 th , 2014

Yudintsev, G. , Lesicko, A. M. H., Llano, D. A. Poster: "Layer-specific differences in the mouse auditory corticocollicular pathway: an anatomical study." |
| 17-21 Oct, 2015 | Society for Neuroscience, Chicago, IL, Oct. 20 th , 2015

Yudintsev, G. , Llano, D. A. Poster: "Layer 5 and 6 auditory corticocollicular neurons are differentially distributed with respect to their subcortical targets in the mouse." |
| 11-15 Feb, 2017 | Association for Research in Otolaryngology, Baltimore, Feb. 13 th , 2017 |

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Yudintsev, G., Llano, D. A. Poster: "Layer 5 and 6 neurons projecting to the inferior colliculus comprise two distinct and heterogeneous populations in the cortex."

09-14 Feb, 2018 Association for Research in Otolaryngology, San Diego, Feb. 11th, 2018

Yudintsev, G., Llano, D. A. Poster: "Characterization of termination patterns of layers 5 and 6 cortical neurons in the mouse inferior colliculus."

Teaching

2015 – 2017 Teaching Assistant, MCB/NEUR 314 Introduction to Neurobiology, College of LAS, UIUC.
2016, SPRING Teaching Assistant, BBHD Brain, Behavior and Human Development, College of Medicine, UIUC.
2016, FALL Teaching Assistant, MCB 244 Human Anatomy and Physiology I, College of LAS, UIUC.
2018, SPRING Teaching Assistant, MCB 247 Human Anatomy and Physiology Laboratory II, College of LAS, UIUC.

Invited Lectures

2018 The structure and functions of auditory thalamus. *Rush University Audiology Program in Chicago.*

Honors and awards

2009-2013 Kazakhstan Presidential International Scholarship "Bolashak" (\$200,000).
2012 Mayo Clinic Summer Undergraduate Research Fellowship (\$5,000).
2013 Honors and Departmental Distinction in Molecular and Cellular Biology.
2016 UIUC List of Teachers Marked As Excellent By Their Students.
2017 Bob Bilger Graduate Student Award (\$1,250).
2018 UIUC List of Teachers Marked As Excellent By Their Students.

Journal reviews

Cerebral Cortex
Frontiers in Neural Circuits
Journal of Neuroscience
Brain Structure and Function

Professional affiliations

Association for Research in Otolaryngology
Society for Neuroscience

Undergraduate students research mentoring:

Kavyakrishna Nair (MCB), Masumi Prasad (MCB), Macey Coppinger (Molecular and Cellular Biology (MCB), *Senior Thesis*), Devika Nair (MCB), Vraj Patel (MCB), Omar Zaki (MCB).

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Other activities

- 09/99-present Classical Piano
Mentors: Podolskaya Natalya Vladimirovna (1999-2006), Milica Vukmanovic,
D.M.A. (2010-2011), Wuna Meng D.M.A. (2012-2015).
- 05/14 Brain Awareness Day presenter and volunteer at Orpheum museum,
Champaign, IL.
- 12/12-05/13 Carle Clinic Observer, M.D. shadowing, Department of Neurology.
- 09/10-09/11 Website Designer Chair for Illini Medical Screening Society.
- 09/11-05/12 LIGASE Registered Student Organization Tutor in Molecular and Cellular
Biology.
- 06/07-09/07 Camp Counselors USA Exchange Student, Berachah Camp (currently Black
Diamond Camp), Auburn, WA.
- 06/08-09/08 Camp Counselors USA Exchange Student, Berachah Camp (currently Black
Diamond Camp), Auburn, WA.
- 06/06-01/09 ESL tutor, Karaganda, Kazakhstan.