

Jozsef Meszaros

Columbia University
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Education

Columbia University

Ph.D., Neuroscience, 2017.

Fields: Neurotransmitter release, imaging techniques, data science

University of Pennsylvania

J.D., 2010.

University of Maryland College Park

B.S., Physics, 2007.

B.S., Neurobiology and Behavior, 2007.

Dissertation

”Optical characterization of dopamine release in the globus pallidus and striatum”

Conceived of experiments to measure and validate very tiny changes in fluorescence in order to study dopamine release in a brain area where it had previously been too difficult.

Teaching

Bard College

Instructor, Citizen Science, 2018

Instructor, Citizen Science, 2017

Summer Medical and Dental Education Program, Columbia University

Instructor, Biochemistry, 2014

Instructor, Biology, 2013

Biology, Columbia University

Instructor, Neurolaw, Fall 2014

Instructor, Neurolaw, Fall 2013

Instructor, Neurolaw (co-taught with Dr. O’Neill), Summer 2012

Fellowships and Honors

NIH T32 Training Grant Recipient, Columbia University

Neurobiology and Behavior, 2014-2016

Summer Teaching Scholar

Columbia University, 2012

Senior Editor

University of Pennsylvania *Journal of Law and Social Change*, 2009-2010

Languages and Skills

Hungarian (native), English (advanced)
Matlab, L^AT_EX, HTML+CSS/PHP/SQL, Javascript, Python, Arduino, fabrication (acrylic and 3d)

Publications

Jozsef Meszaros, Timothy Cheung, Un Kang, Dalibor Sames, David Sulzer, and Christoph Kellendonk. Using fluorescent false neurotransmitters to characterize exocytosis from dopamine synaptic vesicles within the gpe (*under review*). *Journal of Neuroscience*.

Eduardo Gallo, **Jozsef Meszaros**, Jeremy D Sherman, Muhammad O Chohan, Eric Teboul, Claire S Choi, Holly Moore, Jonathan A Javitch, and Christoph Kellendonk. Dopamine d2 receptors on ventral striatal projection neurons increase motivation by shifting the functional balance from the indirect to the direct pathway (*under resubmission review*). *Nature Neuroscience*.

Daniela B Pereira, Yvonne Schmitz, **Jozsef Meszaros**, Paolomi Merchant, Gang Hu, Shu Li, Adam Henke, José E Lizardi-Ortiz, Richard J Karpowicz Jr, Travis J Morgenstern, et al. Fluorescent false neurotransmitter reveals functionally silent dopamine vesicle clusters in the striatum. *Nature Neuroscience*, 19(4):578–586, 2016.

Fernanda Carvalho Poyraz, Eva Holzner, Matthew R Bailey, **Jozsef Meszaros**, Lindsay Kenney, Mazen A Kheirbek, Peter D Balsam, and Christoph Kellendonk. Decreasing striatopallidal pathway function enhances motivation by energizing the initiation of goal-directed action. *Journal of Neuroscience*, 36(22):5988–6001, 2016.

Dominik K Biezonski, Pierre Trifilieff, **Jozsef Meszaros**, Jonathan A Javitch, and Christoph Kellendonk. Evidence for limited d1 and d2 receptor coexpression and colocalization within the dorsal striatum of the neonatal mouse. *Journal of Comparative Neurology*, 523(8):1175–1189, 2015.

Aliya L Frederick, Hideaki Yano, Pierre Trifilieff, Harshad D Vishwasrao, Dominik Biezonski, **Jozsef Meszaros**, E Urizar, DR Sibley, C Kellendonk, KC Sonntag, et al. Evidence against dopamine d1/d2 receptor heteromers. *Molecular Psychiatry*, 20(11):1373–1385, 2015.

Jozsef Meszaros. Achieving peace of mind: the benefits of neurobiology evidence for battered women defendants. *Yale Journal of Law and Feminism*, 23(1):117–178, 2011.

Presentations.

Two diverging roads differing in risk and reward (invited seminar). *Bard College Department of Biology*, New York, NY, September 29, 2016.

Neuroscience in the law (invited). *Yeshiva University Neuroscience Society*, New York, NY, March 21, 2016.

Using fluorescent false neurotransmitters to image dopamine release within the external globus pallidus (selected for panel). *Monitoring Molecules in Neuroscience*, UCLA, Los Angeles, CA, August 6, 2014.

Is the new field of 'neurolaw' inherently political? (invited). *Columbia University Neuroscience Society*, New York, NY, February 19, 2014.