Katherine M. Nautiyal, PhD

6207 Moore Hall Hanover, NH 03755

Degree	Institution	Field of Study		Completed
Postdoc	Columbia University Medical Center	Psychiatry and Neuroso	cience	2018
Ph.D.	Columbia University	Psychology (Behavioral		2010
M.A.	Columbia University	Psychology (Behavioral		2008
B.A.	University of Pennsylvania	Psychology		2004
B.S.	University of Pennsylvania	Cognitive and Compute	r Science	2004
Research	Positions			
Assistant F Departm Integrati			:	2018-currer
Mentor: Departm	al Fellow, Assistant Professor of Clinical N Dr. René Hen nent of Psychiatry, Columbia University Me of Integrative Neuroscience, New York Sta	dical Center		2012-201
Mentor:	Research Fellow Dr. Rae Silver nent of Psychology, Columbia University			2005-201
Mentor:	Assistant, Technician Dr. Harvey Grill Systems Neuroscience Laboratory, Unive	rsity of Pennsylvania		2003-200
	Assistant : Drs. Aravind Joshi and Lila Gleitman for Research in Cognitive Science, Univer	sity of Pennsylvania		2001-2003
Research	Grants and Fellowships			
	126178 rotonin modulation of the development of n /ard processing and impulsivity in adolesce	, ,	\$2,901,583	2021-2026
Dis	IIMH106731 secting serotonergic and dopaminergic col cuits underlying impulsive behavior	ntributions to the neural	\$1,006,729	2015-202
Analytics F	004 Supplement for Advancing Computation Relevant to Mental Health In putational modeling of the neural encoding	-	\$93,190	2019-202
Co	ompX Faculty Grant mputational approaches to understanding to pulsivity	the neural basis of	\$20,000	2019-202
	Young Investigator Award, BBRF rotonin modulation of the development of ir	mpulsivity in mice and men	\$70,000	2016-201
Dis	stitute Award secting the role of the serotonin 1B recepto sic science and epidemiological approache		\$50,000	2015-201

Early Stage Investigator Award, National Center for Responsible Gaming	\$147,706	2013-2015
Developing a mouse model of pathological gambling using an inducible and tissue specific serotonin 1B receptor knock-out		
Post-doctoral NRSA Fellowship, NIH F32 MH100888 Using genetic and optogenetic models to study the role of the serotonin 1B receptor in aggression	\$106,132	2013-2015
Post-doctoral NRSA Institutional Training Grant, NIH T32 MH015174	\$45,264	2012-2013
Pre-doctoral NRSA Fellowship, NIH F31 MH084384 Beyond allergy: Mast cells mediate brain-behavior-immune interactions	\$57,781	2009-2011
Honors and Awards		
Class of 1962 Faculty Fellowship, Dartmouth College NIMH Biobehavioral Research Award for Innovative New Scientists Election to Associate Membership of American College of Neuropsychopharmad Winter Conference on Brain Research (WBBR) Panel Travel Fellowship American College of Neuropsychopharmacology (ACNP) Travel Award Sackler Institute Young Investigator Award Best Poster Award, National Center for Responsible Gaming Annual Conference Travel Award for the International Society of Serotonin Research NIDA Award, Genetics of Addiction Course, Jackson Laboratory MBL/USP Award, Joint Course in Neural Systems and Behavior Trainee Scholar Award, Psychoneuroimmunology Research Society SfN Graduate Student Travel Award, Society for Neuroscience Faculty Fellowship, Columbia University		2021 2020 2017 2015 2015 2014 2014 2014 2013 2012 2009, 2011 2010 2005-2009
Teaching and Mentoring		
Psychological and Brain Sciences, Dartmouth College		
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Behavioral Neuroscience Neuroscience of Stress	2019W, 20	019F, 2022W 2020F
Behavioral Neuroscience Neuroscience of Stress Department of Psychology, Columbia University Topics in Neurobiology and Behavior		
Behavioral Neuroscience Neuroscience of Stress Department of Psychology, Columbia University Topics in Neurobiology and Behavior Graduate and Undergraduate Senior Seminar (12 students) Mind, Brain and Behavior	2012	2020F
Behavioral Neuroscience Neuroscience of Stress Department of Psychology, Columbia University Topics in Neurobiology and Behavior Graduate and Undergraduate Senior Seminar (12 students)	2012 2011	2020F 2, 2014, 2015 1, 2012, 2015 2009
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Publications and Presentations

Pre-prints and manuscripts under review:

- Carazo Arias, C., Kass, M.D., Jee, S., **Nautiyal, K.M.**, Magalong, V., Coie, L.A., Andreu, V., Khalil, H., Akil, H., Arcego, D.M., Meany, M.J., Samuels, B.A., Pintar, J.E., Morozova, I., Kalachikov, S., Hen, R. Contribution of the opioid system to the antidepressant effects of fluoxetine. Under review at Biological Psychiatry.
- Li, L., Wyler, S., Leon-Mercado, L., Xu, B., Chen, X., Wan, R., Arnold, A.G., Jia, L., **Nautiyal, K.M.**, Hen, R., Sohn, J.-W., Liu, C. Delineating a serotonin receptor pathway for appetite suppression. Under review at Journal of Experimental Medicine.

Peer-reviewed publications:

- Desrochers, S.S., Spring, M.G., **Nautiyal, K.M.** (2022) A role for serotonin in modulating opposing drive and brake circuits of impulsivity. <u>Frontiers in Behavioral Neuroscience</u>. In press.
- Desrochers, S.S., **Nautiyal, K.M.** (2022) Serotonin 1B receptor effects on response inhibition are independent of inhibitory learning. <u>Neurobiology of Learning and Memory</u>. 187:107574.
- Han, J., Andreu, V., Langreck, C., Pekarskaya, E.A., Grinnell, S.G., Magalong, V.M., Pintar, J., Kieffer, B.L.,
 Harris, A.Z., Javitch, J.A., Hen, R., Nautiyal, K.M. (2021) Mu Opioid Receptors on Hippocampal
 GABAergic Interneurons are Critical for the Antidepressant Effects of Tianeptine.
 <u>Neuropsychopharmacology</u>. doi: 10.1038/s41386-021-01192-2. PMID: 34593976
- Li, Y., Simmler, L.D., Zessen, R.V., Flakowski, J., Wan, J.-X., Deng, F., Li, Y.-L., Nautiyal, K.M., Pascoli, V., and Lüscher, C. (2021). Synaptic mechanism underlying serotonin modulation of transition to cocaine addiction. <u>Science</u> 373, 1252-1256.
- Desrochers, S.S., Lesko, E.M., Magalong, V.M., Balsam, P.D., Nautiyal, K.M. (2021) A role for reward valuation in the serotonergic modulation of impulsivity. <u>Psychopharmacology</u>. doi: 10.1007/s00213-021-05944-2. Epub ahead of print. PMID: 34390360.
- Lee, J.H., Capan, S., Lacefield, C., Shea, Y.M., **Nautiyal, K.M** (2020) DIY-NAMIC Behavior: A High-Throughput Method to Measure Complex Phenotypes in the Homecage. <u>eNeuro</u> 7(4)
- Nautiyal, K.M., Okuda, M., Hen, R., Blanco, C. (2017) Gambling Disorder: An integrative review of animal and human studies. <u>Ann N Y Acad Sci</u> 1394(1):106-127.
- Zike, I.D., Chohan, M.O., Kopelman, J.M., Krasnow, E., Flicker, D., Nautiyal, K.M., Bubser, M., Kellendonk, C., Jones, C.K., Stanwood, G.D., Tanaka, K.F., Moore, H., Ahmari, S.E., Veenstra-VanderWeele, J. (2017) OCD candidate gene SLC1A1/EAAT3 impacts basal ganglia-mediated activity and stereotypic behavior. <u>Proc Natl Acad Sci U S A</u> 114(22):5719-5724
- Samuels, B.A.*, Nautiyal, K.M.*, Kruegel, A. C., Levinstein, M.R., Magalong, V.M., Gassaway, M.M., Grinnell, S.G., Han, J., Ansonoff, M.A., Pintar, J.E., Javitch, J.A., Sames, D., Hen, R. (2017) The behavioral effects of the antidepressant tianeptine require the mu-opioid receptor. <u>Neuropsychopharmacology</u> 42(10):2052-2063 *co-first authors
- Nautiyal, K.M., Hen, R. (2017) Serotonin receptors in depression: From A to B. <u>F1000 Faculty Reviews</u> 6:123.
- Nautiyal, K.M., Wang, S., Wall, M.W., Ahmari, S.E., Balsam, P.D., Blanco, C., Hen, R. (2017) Genetic and modelling approaches reveal distinct components of impulsive behavior. <u>Neuropsychopharmacology</u> 42(6):1182-1191.
- Nautiyal, K.M., Tritschler, L., Ahmari, S.E. David, D.J., Gardier, A.M., Hen, R. (2016) A lack of serotonin 1B autoreceptors results in a decrease in anxiety and depression-related behaviours. <u>Neuropsychopharmacology</u> 41(12):2941-2950.
- Nautiyal, K.M., Tanaka, K.F., Barr, M.M., Tritschler, L., LeDantec, Y., David, D.J., Gardier, A.M., Blanco, C., Hen, R., Ahmari, S.E. (2015) Distinct circuits underlie the effects of serotonin 1B receptors on aggression and impulsivity. <u>Neuron</u> 86(3):813-26.

Knolhoff, A.M., Nautiyal, K.M., Nemes P., Kalachikov, S., Morozov, I., Silver, R., Sweedler, J.V. (2013)

Combining small-volume metabolomic and transcriptomic approaches for assessing brain chemistry. <u>Anal Chem</u> 85(6):3136-43.

- Donaldson, Z.R., **Nautiyal, K.M.,** Ahmari, S.E., Hen, R. (2013) Genetic approaches for understanding the role of serotonin receptors in mood and behavior. <u>Curr Opin Neurobiol</u> 23:1-8.
- Nautiyal, K.M., Dailey, C., Jahn, J.L., Rodriguez, E., Sweedler, J.V., Silver, R. (2012) Serotonin of mast cell origin contributes to hippocampal function. <u>Eur J Neurosci</u> 36(3):2347-59.
- **Nautiyal, K.M.**, Liu, C., Dong, X., Silver, R. (2011) Blood-borne donor mast cell precursors migrate to mast cell-rich brain regions in the adult mouse. <u>J Neuroimmunol</u> 240-241:142-6
- Nautiyal, K.M., McKellar, H., Silverman, A.J., Silver, R. (2009) Mast cell involvement in the hypothermic response to sepsis. <u>Am J Physiol</u> 296(3):R595-602
- Nautiyal, K.M., Ribeiro, A., Pfaff, D.W., Silver, R. (2008) Brain mast cells link the immune system to anxiety-like behavior. <u>Proc Natl Acad Sci U S A</u>; 105(46): 18053-57.
- Nautiyal, K.M., Dailey, M., Brito, N., Brito, M.N., Harris, R.B, Bartness, T.J., Grill, H.J. (2008) Energetic responses to cold temperatures in rats lacking forebrain-caudal brainstem connections. <u>Am J Physiol</u> 295(3): R789-98.

Chapters and Editorials

- K.M. Nautiyal. Paid Family Leave for Postdocs. (2019) Scientific American.
- **K.M. Nautiyal**. Immune cells in the brain. (2012) In: Neuroscience in the 21st Century, Ed. Donald Pfaff, Springer Link.

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Sai University, Chennai, India	December 2021
Center for Addiction Research Seminar, University of Texas, Medical Branch	October 2021
Amherst College, Department of Biology Seminar [virtual due to COVID-19]	March 2021
Fordham University, Department of Biology Colloquium [virtual due to COVID-19]	Feb 2021
Pavlovian Society [virtual due to COVID-19]	Sept 2020
International Society for Serotonin Research [rescheduled due to COVID-19]	July 2020
Eastern Psychological Association Annual Meeting [cancelled due to COVID-19]	March 2020
Neuroscience Day, Dartmouth College	April 2019
Center for Cognitive Neuroscience Annual Retreat, Dartmouth College	Oct 2018
International Society of Serotonin Research	July 2018
Barrow Neurological Institute, Neuroscience Seminar	April 2018
American Psychiatric Association Annual Meeting	May 2017
University of Pennsylvania, Department of Psychiatry	March 2017
University of Connecticut, Department of Psychology	Feb 2017
Fordham University, Department of Biology	Feb 2017
Dartmouth College, Department of Psychological and Brain Sciences	Jan 2017
Mt. Sinai School of Medicine, Department of Neuroscience	Dec 2016
Vassar College, Department of Psychology	Dec 2016
International Society for Serotonin Research	July 2014
Psychoneuroimmunology Research Society	June 2011
Society for the Study of Ingestive Behavior Annual Meeting	July 2005
Recent Conference Presentations Eastern Psychological Association [CANCELLED due to COVID-19] Behavioral and neural substrates of behavioral inhibition Boston, MA; March 2020	
Winter Conference on Brain Research	
A role for reward sensitivity in the serotonergic modulation of impulsivity Big Sky, MO; January 2020	
American College of Neuropsychopharmacology <i>I Can't Wait: Challenges and Successes in Translational Research on Impulsivity.</i> Hollywood, FL; December 2018	

International Society for Serotonin Research

A lack of serotonin 1B autoreceptors results in decreased anxiety and depression-related Behaviours. Cork, Ireland; July 2018

Chaired Symposia:

- International Society for Serotonin Research (Chair), July 2020 [RESCHED FOR 2022 due to COVID-19] Towards a better understanding of how serotonin modulates impulsivity
- Winter Conference on Brain Research (Chair), January 2020 It's not all dopamine: The role of serotonin in the modulation of impulsive behavior
- American College of Neuropsychopharmacology (Co-chair, speaker), December 2018 I Can't Wait: Challenges and Successes in Translational Research on Impulsivity.
- Winter Conference on Brain Research (Co-chair), January 2017 Novel Approaches to identifying monoamine circuits in aggression
- Society for Neuroscience Minisymposium (Chair, speaker), October 2009 Behavioral Neuroimmunology: Linking the immune system to emotionality and cognition

Recent Conference Poster Presentations:

Desrochers, S.S., Lesko, E.M., Magalong, V.M., Balsam, P.D., **Nautiyal, K.M**. *A Role for Reward Sensitivity in the Serotonergic Modulation of Impulsivity*. American College of Neuropsychopharm. (Virtual) Dec 2020.

Desrochers, S.S., & **Nautiyal, K.M.** Mice lacking the serotonin 1B receptor have deficits in response inhibition despite intact inhibitory learning. Annual Meeting of the Pavlovian Society (virtual) Sept 2020.

Desrochers, S.S., Lesko, E.M., Magalong, V.M., Balsam, P.D., **Nautiyal, K.M**. *Serotonin 1B may influence impulsive action through effects on reward sensitivity*. American College of Neuropsychopharmacology. Orlando, FL, Dec 2019

Desrochers, S.S., Magalong, V.M., Lee, J.H., Balsam, P.D., **Nautiyal, K.M.** *The role of the serotonin 1B receptor in impulsivity and related behavioral constructs.* Society for Neuroscience. Chicago, IL Oct 2019.

Han, J., Andreu, J.E., Pintar, B.L., Kieffer, B.L., Harris, A., Hen, R., **Nautiyal, K.M.** *Role of the mu opioid receptor in the antidepressant action of tianeptine.* Society for Neuroscience. Chicago, IL, Oct 2019.

Desrochers SS, **Nautiyal KM.** The convergent role of serotonin signaling in conditioned inhibition and instrumental response inhibition. Pavlovian Society. Vancouver, BC, Oct 2019

Kass, M.D., Samuels, B.A., **Nautiyal, K.M.**, Carazo, E., Pintar, J., Hen, R. *Investigating the role of the opioid system in mediating the antidepressant-like behavioral effect of fluoxetine.* International Behavioral Neuroscience Society. July 2019

Magalong, V.M., Sultana, M., Balsam, P.D., Hen, R., **Nautiyal, K.M.** Serotonin 1B receptors modulate impulsive action but not impulsive choice via GABAergic signaling. American College of Neuropsychopharmacology. Hollywood, FL. Dec 2018

Society Membership, Service, and Outreach

Society Memberships:

Society for Neuroscience (2005-current) Psychoneuroimmunology Research Society (2006-2011) Society for Behavioral Neuroendocrinology (2006-2011) International Society for Serotonin Research (2014-current) International Society for Research on Impulsivity (2017-current) Pavlovian Society (2018-current) American College of Neuropsychopharmacology (2020-current)

Women's Task Force, American College of Neuropsychopharmacology (2022-current)

Executive Committee of the International Society for Research on Impulsivity (2021-current)

Reviewing editor for Frontiers in Behavioral Neuroscience (2020-current)

Member of the Editorial Board of Motivation and Reward

Winter Conference for Brain Research Mentor (2020)

Public/Outreach Lectures - Brain Bee, STEM@TheNugget, STEM at Hanover High (2019)

Women in Science Project Mentor, Dartmouth College (2018-current)

Ad hoc manuscript reviewer for:

Molecular Psychiatry, Neuropsychopharmacology; European Journal of Neuroscience; eNeuro; Psychopharmacology; Hormones and Behavior; Genes, Brain, and Behavior, Collaborative Incentive Research Grant from CUNY

Grant Review Panels:

National Center for Responsible Gaming, 2016 NIH Special Emphasis Panel/Scientific Review Group 2022/01 ZMH1 ERB-Q (02) R Faculty of 1000, Associate Faculty Member (2017-current)

Press conference participant, Society for Neuroscience 2009, 2013

Updated 1/13/22