

Raunak Sinha, Ph.D.

Current Address

Department of Neuroscience
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Education and Training

Jan 2012 - Mar 2018	Senior Fellow Dept. of Physiology and Biophysics, University of Washington, Seattle Supervisor: Prof. Fred Rieke
Jun 2011 - Dec 2011	Post-doctoral Fellow Dept. of Membrane Biophysics, Max-Planck Inst. for Biophysical Chemistry, Goettingen, Germany. Supervisors: Prof. Dr. Jurgen. Klingauf and Prof. Dr. Erwin Neher (Nobel laureate Physiology and Medicine, 1991)
Oct 2007 - May 2011	Ph. D. (Neuroscience) International Max Planck Research School, University of Goettingen, Max-Planck Inst. for Biophysical Chemistry, Goettingen, Germany Supervisor: Prof. Dr. Jurgen Klingauf
Sept 2006 - April 2011	MSc/PhD Neuroscience Program International Max Planck Research School/University of Goettingen
July 2005 - June 2006	Junior Research Scholar Tata Institute of Fundamental Research (TIFR), India
March - April 2008	EMBO course - Advanced optical microscopy Marine Biological Association, Plymouth, UK
Sept 2002 - June 2005	B.Sc. (Hons) (Human Physiology) Calcutta University, Presidency College, Kolkata, India

Positions Held

2018-present	Assistant Professor, Dept. of Neuroscience, UW Madison
2018-present	Affiliate Faculty, Dept. of Ophthalmology, UW Madison
2018-present	Investigator, McPherson Eye Research Institute
2018-present	Trainer, Neuroscience training program, UW Madison
2018-present	Trainer, Physiology training program, UW Madison
2018-present	Trainer, Biophysics training program, UW Madison

Fellowships, Awards and Honors

2016 - Present	NIH K99/R00 Award (NEI)
2013 - 2016	Human Frontier Science Foundation (HFSP) - Long-term Fellowship
2012	<i>Otto Hahn Medal</i> by the Max Planck Society, for outstanding scientific achievements during PhD
2006 - 2010	Stipend, International Max Planck Research school, Germany
2005 - 2006	Stipend Junior Research Scholar, TIFR, India
2005	Stipend Research trainee, GlaxoSmithkline, India

Invited talks and Seminars

2018	Seminar, Dept. of Ophthalmology, University of Washington, Seattle
2017	European Retina Meeting, Paris, Speaker
2017	Seminar, Dept. of Neural and Behavioral Sciences, Pennsylvania State University, Hershey
2017	Seminar, Dept. of Cellular and Integrative physiology, University of Texas Health, San Antonio
2017	Seminar, Dept. of Biomedical Sciences, University of Pennsylvania
2017	Seminar, Kellogg Eye Centre, University of Michigan, Ann Arbor
2017	Seminar, Dept. of Ophthalmology, Baylor College of Medicine, Houston
2017	Seminar, Dept. of Neuroscience, State University of New York, Syracuse
2016	Seminar, Dept. of Ophthalmology & Visual Sciences, WashU, St. Louis
2016	ARVO annual meeting, Seattle
2015	ARVO annual meeting, Denver
2015	Gordon Research Seminar, Dendrites Structure and Function, Ventura
2012	FASEB Retinal Neurobiology Meeting, Saxtons River
2010	Society for Neuroscience Meeting, San Diego, Nanosymposium

Publications

Baudin J, **Sinha R***, Rieke F. S cone photoreceptors in the primate retina are functionally distinct from L and M cones. *eLife*. (under revision). (* corresponding author)

Sinha R*, Hoon M*, Baudin J, Okawa H, Wong RO, Rieke F*. Cellular and Circuit Mechanisms Shaping the Perceptual Properties of the Primate Fovea. *Cell*. 2017 Jan 26; 168(3):413-426. (*co-correspondence)

Sinha R, Lee A, Rieke F, Haeseleer F. Lack of CaBP1/calbindin or CaBP2 leads to altered ganglion cell responses. *eNeuro* Oct 2016, 2016 Oct 28;3(5).

Hoon M, **Sinha R**, Okawa H, Suzuki SC, Hirano AA, Brecha N, Rieke F, Wong RO. Neurotransmission plays contrasting roles in the maturation of inhibitory synapses on axons and dendrites of retinal bipolar cells. *PNAS*. 2015 Oct 13; 112(41): 12840-5.

Sinha R, Ahmed S, Jahn R, Klingauf J. Two synaptobrevin molecules are sufficient for vesicle fusion in central nervous system synapses. *PNAS*. 2011 Aug 23;108(34):14318-23.

Hua Y*, **Sinha R***, Thiel CS*, Schmidt R, Hüve J, Martens H, Hell SW, Egner A, Klingauf J. A readily retrievable pool of synaptic vesicles. *Nature Neuroscience*. 2011 Jun 12;14(7):833-9. (*equal contribution)

Hua Y*, **Sinha R***, Martineau M, Kahms M, Klingauf J. A common origin of synaptic vesicles undergoing evoked and spontaneous fusion. *Nature Neuroscience*. 13, 1451–1453 (2010). (*equal contribution)

Suseendranathan K, Sengupta K, Rikhy R, D'Souza JS, Kokkanti M, Kulkarni MG, Kamdar R, Chagede R, **Sinha R**, Subramanian L, Singh K, Rodrigues V, Rao BJ. Expression pattern of Drosophila translin and behavioral analyses of the mutant. *Eur J Cell Biol*. 2007 Mar; 86(3):173-86.

Book Chapter

Hoon M, **Sinha R**, Okawa H. Using fluorescent markers to estimate synaptic connectivity *in situ*. *Methods Mol Biol* vol. 1538 (2017), Humana Press. ISBN 978-1-4939-6688-2.

Service

Education committee member McPherson Eye Research Institute

Co-organizer of NEURIZONS meeting (May 2009), held at the Max Planck Institute for Experimental Medicine, Goettingen, Germany

Mentoring Experience

Mentoring a PhD student (Physiology training program) and two undergraduate students (Biomedical Engineering) since April' 2018.

Mentored a MD/PhD and a PhD student in Fred Rieke Lab, Dept of Physiology and Biophysics, University of Washington.

Mentored a Masters/PhD student at Department of Membrane Biophysics, Max Planck Inst. for Biophysical Chemistry, Germany

Funding

2018-2021	K99/R00 NIH pathway to independence grant. Awarded by NEI.
2016-2018	K99/R00 NIH pathway to independence grant. Awarded by NEI.
2013-2016	Human Frontier Science Program, long term fellowship
2012-2013	Howard Hughes Medical Institute post-doctoral fellowship
2006-2011	International Max Planck Research School stipend, Germany
2005-2006	Junior research scholar stipend (TIFR, Mumbai)

Reviewer

Reviewer for *Cell*, *Nature Neuroscience*, *J Neuroscience*, *Current Biology*, *J Neurophysiology*, *BMC Biology* and *eNeuro*.