

## Kumaun University, Nainital

### Curriculum Vitae

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Name : Dr. Manju Tewari  
Designation : Assistant Professor (Guest Faculty)  
Department : Biotechnology  
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#### Educational Qualification

Degree	University	Subjects	Year
PhD	National Brain Research Centre, Manesar, Gurgaon	Neuroscience	2009-2016
M.Phil	National Institute of Mental Health and Neurosciences, Bangalore	Biophysics	2007-2009
M.Sc.	G.B.Pant University of Agriculture and Technology, Pantnagar	Biophysics	2002-2004
B.Sc.	Kumaun University, Nainital	Physics, Chemistry, Mathematics	1999-2002

#### Work Experience

Position	Department	University/Organization	Year
Assistant Professor (Guest Faculty)	Department of Biotechnology	Kumaun University	2022-till date
Post Doctoral Fellow	Department of Pharmacology and Physiology & Amelia Marsellah Centre for Neuroscience Research	Saint Louis University, USA	2018-2020
Tutor- Human System Physiology (ANAT 5400), Post	Department of Medical Anatomy and Physiology	Saint Louis University, USA	2018 & 2019

Baccalaurate Programme			
Lecturer (Biophysics)	Department of Physiology	Shri Ram Murti Smarak Institute of Medical Sciences, Bareilly	2005-2007
Faculty Trainee	Department of Pharmacy	Shri Ram Murti Smarak Institute of Engineering and Technology, Bareilly	2005

### Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Hostel Warden	All the responsibilities of warden of a Girl's hostel	SRMSIMS, Bareilly	2005-2007

### Research Interests

(List your research interests and areas of expertise in 1-3 lines)

#### Research Interest:

- 1) To understand the role of glial cells (astrocytes and microglia) in the human brain under physiological and pathological conditions.
- 2) To understand the role of purinergic receptors and connexins in neuro-glia interaction

#### Area of Expertise:

Cellular and Molecular Neuroscience, Stem cell biology, HIV-neuropathogenesis, Glial Biology (Astrocytes and microglia), Cell signaling, Live cell Imaging, Biophysics

### Publications (start from recent publications)

#### a) Research Papers

Authors name	Title of the paper	Journal, vol, page no	Year
<b>Manju Tewari</b> ;Stephanie Michalski; Terrance M. Egan	Modulation of Microglial Function by ATP-Gated P2X7 Receptors: Studies in Rat, Mice, and Human.	<b>Cells</b> . 2024 Jan 16;13(2):161. doi: 10.3390/cells13020161.	2024
<b>Manju Tewari</b> ,Maheen Khan, Megha Verma, Jeroen Coopens, Joanna M. Kemp, Richard Bucholz, Philippe Mercier and Terrance M. Egan.	Physiology of cultured human microglia maintained in a defined culture medium	<b>Immunohorizons</b> . 2021 Apr 30;5(4):257-272. doi: 10.4049/immunohorizons.2000101	2021

B. S. Tewari, <b>M. Tewari</b> , A. Dhyani and Ajay. (2019).	Study of interband pair transfer and density of states on isotopic effect in TTF[Ni(dmit) <sub>2</sub> ] <sub>2</sub> organic superconductor.	<b>Physica C: Superconductivity and its Applications.</b> <a href="https://doi.org/10.1016/j.physc.2019.1353591">https://doi.org/10.1016/j.physc.2019.1353591</a>	2020
<b>Manju Tewari</b> , Monika, Rebu K Varghese, Malini Menon and Pankaj Seth	Astrocytes mediate HIV-1 Tat-induced neuronal damage via ligand-gated ion channel, P2X7R. <b>Featured as the cover image of the journal issue</b>	<b>J Neurochem.</b> 2015 Feb; 132(4):464-76.	2015
<b>Manju Tewari</b> and Pankaj Seth	Emerging Role of P2X7 Receptors in CNS Health and Disease	<b>Ageing Res Rev.</b> 2015 Nov; 24(Pt B):328-42.	2015
<b>Manju Pant</b> , Pretty Garg and Pankaj Seth	Central Nervous System Infection by HIV-1: Special Emphasis to NeuroAIDS in India:	<b>Proc. Natl. Acad. Sci. India</b> , Sect B. Biol. Sci. ISSN 0369-8211, DOI 10.1007/s40011-011-0007-8. (Springer)	2012

b) Patents (start from recent publications)- **None**

Authors name	Title of the patent	Patent no (Granted or filed)	Year

c) Books (start from recent publications)- **None**

Authors name	Title of the book	Publisher	ISBN	Year

d) Book chapters (start from recent publications)

Authors name	Title of the book	Publisher	ISBN	Year
<b>Manju Tewari</b> , Hriday S. Pandey and Pankaj Seth	Science of Ashwagandha: Preventive and Therapeutic Potentials.	Springer	978-3-319-59191-9	2017
<b>Manju Tewari</b> and Pankaj Seth	"Inflammation: The common link in brain pathology."	Springer	ISBN 978-3-319-59192-6	2016

e) Conference Publications/Proceedings (start from recent publications)

Authors name	Title of the paper	Conference name	Year
P Seth, <b>M Tewari</b>	Neuron-glia interactions: Friends turn Foe in HIV-1 induced neurodegeneration	4 th Meeting of the Asian-Pacific Society for Neurochemistry.	2016
Pankaj Seth,	Role of Neuron-Glia	JOURNAL OF	2012

Pretty Garg, <b>Manju Pant</b>	Crosstalk in HIV-1 Neuropathogenesis	NEUROVIROLOGY	
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### Projects - None

Title of the project	Funding agency	Amount (Rs)	Year

### Teaching details

Name of the course/paper	Department	University	Year
MSc Microbiology	Department of Biotechnology	Kumaun University	2022- till date
MSc Biotechnology	Department of Biotechnology	Kumaun University	2022- till date
Int. BSc-MSc Biotechnology	Department of Biotechnology	Kumaun University	2023-till date
Post Baccalaureate Programme	Department of Medical Anatomy and Physiology	Saint Louis University, USA	2018, 2019
MBBS	Department of Physiology	SRMSIMS, Bareilly	2005-2007

### Professional Memberships

Organization	Position	Year
Indian Academy of Neurosciences (IAN)	Life Time Member	2007-till date
Japanese Neuroscience Society (JNS)	Member	2015
International Brain Research Organization (IBRO)	Member	2015

### Honours and Awards

Award	Awarding Organization	Year
Japanese Neuroscience Society (JNS) Travel Award	Japanese Neuroscience Society	2015
9th world Congress Travel Grant, Brazil	International Brain Research Organisation (IBRO)	2015
National Brain Research Centre (NBRC) International Travel Grant	National Brain Research Centre (NBRC)	2015
Lalita and Ravindra Nath Travel Grant	Indian Academy of Neurosciences (IAN)	2015
Department of Science and Technology International	Department of Science and Technology (DST), New Delhi, India	2015

Travel Grant (DST-ITS), New Delhi		
International Travel Grant, (not availed)	Council of Scientific and Industrial Research (CSIR)	2015
International Travel Grant, (not availed)	Department of Biotechnology (DBT)	2014
Best Poster Award	INDO-US symposium on viral infections, Gurgaon, India	2014
Senior Research Fellowship (SRF)	Council of Scientific and Industrial Research (CSIR), New Delhi, India	2011
Certificate of Merit from (Ph.D. 1st year coursework and viva-voice examination)	National Brain Research Centre, Manesar,	2010
NET-JRF	Council of Scientific and Industrial Research (CSIR), New Delhi, India	2009
Certificate of merit (M.Phil. Biophysics)	NIMHANS, India	2009
Graduated Teaching Assistantship (Department of Physics)	G.B.Pant University of Agri. And Tech., Pantnagar, India	2002

### Conference Presentations

Title of presentation	Conference name	Name of the institution	Year
Low doses of alcoholic extract of Ashwagandha leaves and Withanone promote human neural precursor cell.	3rd Biotech Cnclave, Uttarakhnad Council of Biotechnology, Pantnagar University, Uttaranchal	Kumaun University, Uttarakhand	2023
T-lymphocyte and microglia paracrine signaling promotes epilepsy-associated neuroinflammation.	Greater Saint Louis Epilepsy Society. USA	Saint Louis University, USA	2022
T-lymphocyte and microglia signaling promotes epilepsy- associated neuroinflammation.	Keystone Symposia on Neuroimmune interactions in the CNS	Saint Louis University, USA	2022
Brain infiltrating CD8+ T- lymphocyte and microglia paracrine signaling promotes epilepsy-associated neuroinflammation.	American Epilepsy Society. USA.	Saint Louis University, USA	2022
Functional characterization of P2X7R in primary human microglia.	6th International Conference of Glia Biology in Medicine Virginia, USA.	Saint Louis University, USA	2018
Effect of ashwagandha leaf extract on human	XXXIII Annual Conference of Indian Academy of	National Brain Research Centre,	2015

neural precursor cell proliferation: mortalin as a novel mediator.	Neurosciences, Oct 31–Nov2, 2015, Chandigarh, India	Manesar, India	
Involvement of P2X7R in Tat-mediated neuronal damage: Implication in HIV-1 neuropathogenesis.	The 38th Annual Meeting of the Japan Neuroscience Society, Kobe, Japan.	National Brain Research Centre, Manesar, India	2015
Neuron-Glia crosstalk in HIV-1 neuropathogenesis: Role of the ligand-gated purinergic receptor, P2X7R.	9th International Brain Research Organization world (IBRO) Congress on Neuroscience, Rio de Janeiro, Brazil.	National Brain Research Centre, Manesar, India	2015
Novel insights into the role of ligand-gated purinergic receptor, P2X7R in astrocytes mediated neuronal damage in neuroAIDS.	Gordon Research Seminar on Glia Biology, and Gordon Research Conference, Ventura, California, USA.	National Brain Research Centre, Manesar, India	2015
Novel insights into the role of purinergic receptors in astrocyte-mediated neuronal damage in neuroAIDS.	INDO-US symposium on Viral Infections of the Nervous System, Gurgaon, India.	National Brain Research Centre, Manesar, India	2014
Role of glial cells in HIV-1 neuropathogenesis.	Neurocon International Conference, Kolkata, India	National Brain Research Centre, Manesar, India	2013
Novel insights into neuron-glia communication in neuroAIDS.	Annual Conference of Indian Academy of Neuroscience, Delhi, India.	National Brain Research Centre, Manesar, India	2011
Role of interband pair transfer processes on isotopic effect in superconducting TTF[Ni(dmit) <sub>2</sub> ] <sub>2</sub> systems.	First Uttaranchal State Science Congress, Dehradun, India.	SRMSIMS, Bareilly, India	2006



**Signature of the faculty member**

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Title:  
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Author: Diwan S Rawat  
Keywords:  
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Creation Date: 4/23/2024 12:53:00 PM  
Change Number: 2  
Last Saved On: 4/23/2024 12:53:00 PM  
Last Saved By: manoj mehra  
Total Editing Time: 0 Minutes  
Last Printed On: 4/23/2024 9:37:00 PM  
As of Last Complete Printing  
Number of Pages: 6  
Number of Words: 1,460 (approx.)  
Number of Characters: 8,328 (approx.)