

## PERSONAL INFORMATION Madhurima Chatterjee



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R<sup>c</sup> [https://www.researchgate.net/profile/Madhurima\\_Chatterjee3](https://www.researchgate.net/profile/Madhurima_Chatterjee3)

## CURRENT RESEARCH INTEREST

Development of early CSF biomarkers for neurodegenerative diseases

## RESEARCH PROJECT IN DAS SARMA LAB

Role of MHV infection in alteration of cellular prion protein (PrP<sup>c</sup>)

## RESEARCH EXPERIENCE

- **Role of contactins in dementia and other neurodegenerative disorders** [PhD project. Supervisors: Dr.Ir. Charlotte E.Teunissen, Head of Neurochemistry lab. Department of Clinical Chemistry, Vrije University medical centre, Amsterdam, The Netherlands and Prof. Dr. Dr. Detlev Schild, University of Goettingen, Germany]. (2014-Present)
- **Mouse Hepatitis Virus infection plays a role in alteration of cellular Prion Protein expression in neural cells** [Master's thesis. Supervisor: Dr.Jayasri Das Sarma, Neuroimmunology Lab, Department of Biological Sciences, Indian Institute of Science Education and Research, Kolkata (IISER-Kolkata),India]. (2013-2014)
- **Study of cytoskeletal changes in macrophage cell line on viral infection.** [Supervisor: Dr.Jayasri Das Sarma, Neuroimmunology Lab, Department of Biological Sciences, Indian Institute of Science Education and Research, Kolkata(IISER-Kolkata),India] (May-July,2013)
- **To Check cold shock response in *E.Coli*.** [Supervisor: Dr.Partha Pratim Datta, Department of Biological Sciences Indian Institute of Science Education and Research, Kolkata (IISER-Kolkata),India] (February-March,2013)
- **To study the effect of downregulation/overexpression of CASK on border cell migration in *Drosophila melanogaster* employing forward genetics and cryopreservation of *Drosophila* embryos.**[Supervisor: Dr. Mohit Prasad, Department of Biological Sciences Indian Institute of Science Education and Research, Kolkata (IISER-Kolkata),India] (January- February,2013)
- **Study of Learning and Memory in Zebra fish.**[Supervisor: Dr. Anuradha Bhat, Department of Biological Sciences Indian Institute of Science Education and Research, Kolkata (IISER-Kolkata),India] (November-December,2012)
- **Effect of depletion of replication factors on cultured mammalian cells.** [Supervisor: Dr.Sandeep Saxena, National Institute of Immunology(NII), New Delhi, India] (May-July,2011)

## LABORATORY SKILLS

- Proficient in ELISA, Western blotting, immunoprecipitation, immunofluorescence , immunohistochemistry and confocal microscopy.
- Proficient in statistical analysis of clinical data.
- Proficient in animal, bacterial and plant cell culture techniques.
- Proficient in Fly (*Drosophila*) handling.
- Experienced in fluorescence correlation spectroscopy.
- Experienced in Mice handling and primary cell culture.
- Experienced in basic molecular biology techniques like PCR, cloning.

## LIST OF PUBLICATIONS AND INTERNATIONAL CONFERENCES

- Detection of contactin-2 in cerebrospinal fluid (CSF) of patients with Alzheimer's disease using Fluorescence Correlation Spectroscopy (FCS). **Madhurima Chatterjee**, Bernd Nöding, Eline A.J. Willemse, Marleen J.A.Koel-Simmelink, Wiesje M.van der Flier, Detlev Schild, Charlotte E. Teunissen. *Clinical Biochemistry* August 2017. doi: 10.1016/j.clinbiochem.2017.08.017
- Contactin-1 in CSF Discriminates Dementia with Lewy Bodies(DLB) from AD and Non-Demented Controls. **M. Chatterjee**, A.W. Lemstra, I. van Steenoven, W.M. van der Flier, M. Del Campo and C.E. Teunissen. Alzheimer's Association International Conference 2017 , London, England.
- Detection of contactin-2 in cerebrospinal fluid (CSF) of patients with Alzheimer's disease using Fluorescence Correlation Spectroscopy (FCS). **Madhurima Chatterjee**, Bernd Nöding, Eline A.J. Willemse, Marleen J.A.Koel-Simmelink, Wiesje M.van der Flier, Detlev Schild, Charlotte E. Teunissen. AD/PD 2017, the 13th International Conference on Alzheimer's and Parkinson's Diseases and Related Neurological Disorders, Vienna, Austria.

## EDUCATION

Year	Degree/Certificate	Institute/School, City
2014-Present	PhD	Vrije University Amsterdam, Netherlands and Univeristy of Goettingen,Germany
2012-2014	2 years MS Major: Biological Science	Indian Institute of Science Education and Research, Kolkata, India ( <a href="#">IISER K</a> )
2008-2012	B.Tech in Biotechnology (4 years course)	Amity University, Uttar Pradesh, NOIDA , India ( <a href="#">AUUP</a> )
2008	All India Senior School Certificate Examination (Maths +Science)	Kendriya Vidyalaya,Coochbehar West Bengal, India ( <a href="#">KV Coochbehar</a> )
2006	All India Secondary School Examination (10 <sup>th</sup> standard) (Maths, Science, Social science)	<a href="#">KV Coochbehar</a> , West Bengal, India

## ACADEMIC ACHIEVEMENTS

- Erasmus Mundus Joint Doctorate (EMJD) fellowship for pursuing PhD.
- Scholarship from Ministry of Human Resource Development, Govt. Of India for pursuing MS.
- CSIR –NET (JRF) qualified. Secured 62<sup>nd</sup> rank in [CSIR-UGC NET](#) examination (Dec 2013).
- Graduate Aptitude Test in Engineering (Biotechnology) qualified. Secured 88.4 percentile (Feb 2012).( [GATE](#))
- Selected as SRF (Summer Research Fellowship Program) '11 fellow by Indian Academy of Science ([IAS](#)), Indian National Science Academy ([INSA](#)), and National Academy of Science, India ([NASI](#)).