

Dr. Tandrika Chattopadhyay

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Present affiliation: Associate Principal Research Scientist
Dr Reddy's Institute of Life Sciences
University of Hyderabad Campus, Gachibowli
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Post-Doctoral Experience: June, 2019 – April, 2022
Post-Doctoral Fellow, Prof Sanjeev Galande, IISER, Pune
Feb-2015 – Feb-2019
Visiting Fellow, Prof Ullas Kolthur-Seetharam, TIFR, Mumbai

Educational Qualifications:

Degree	University/Institute	Subjects	Duration	Division
Ph.D.	National Institute of Immunology New Delhi, India	Physiology and Metabolism	2007-13	--
M.Sc	Dept. of Biochemistry University of Delhi South Campus	Biochemistry	2005-07	First Division
B.Sc (Honours)	Sri Venkateswara College University of Delhi	Biochemistry	2002-05	First Division

Publications:

- **Chattopadhyay T**, Maniyadath B, Bagul HP, Chakraborty A, Shukla N, Budnar S, Rajendran A, Shukla A, S. Kamat S, Kolthur-Seetharam U. Spatiotemporal gating of SIRT1 functions by O-GlcNAcylation is essential for liver metabolic switching and prevents hyperglycemia. **Proc Natl Acad Sci U S A. 2020** Mar 24;117(12):6890-6900. (Impact Factor – 9.58)
- Maniyadath B*, **Chattopadhyay T***, Verma S, Kumari S, Kulkarni P, Banerjee K, Lazarus A, Kokane SS, Shetty T, Anamika K, Kolthur-Seetharam U. Loss of Hepatic Oscillatory Fed microRNAs Abrogates Refed Transition and Causes Liver Dysfunctions. **Cell Rep. 2019** Feb 19;26(8):2212-2226.e7. (***Equal contribution**) (Impact Factor – 7.815)
- Deota S*, **Chattopadhyay T***, Ramachandran D, Armstrong E, Camacho B, Maniyadath B, Fulzele A, Gonzalez-de-Peredo A, Denu JM, Kolthur-Seetharam U. Identification of a tissue-

restricted isoform of SIRT1 defines a regulatory domain that encodes specificity. Cell Rep. 2017 Mar 28;18(13):3069-3077. (***Equal contribution**) (Impact Factor – 7.815)

- **Chattopadhyay T**, Singh RR, Gupta S, Surolia A. Bone Morphogenetic Protein-7 (BMP-7) augments insulin sensitivity in mice with Type-II diabetes mellitus by potentiating PI3K/AKT pathway. Biofactors. 2017 Mar;43(2):195-209. (Impact Factor – 3.598)
- Gupta S, **Chattopadhyay T**, Pal Singh M, Surolia A. Supramolecular insulin assembly II for a sustained treatment of type 1 diabetes mellitus. Proc Natl Acad Sci U S A. 2010 Jul 27;107(30):13246-51. (Impact Factor – 9.58)

Patents:

“Compositions useful for the treatment of diabetes and other chronic disorder” (WO/2009/125423)

- Indian Patent Application no: 914/DEL/2008
- Granted in US, **Patent No: 8,426,362**
- Granted in Republic of South Africa, **Patent No: 2009/02374** (Granted December 30, 2009)
- Granted by the European Patent Office.

Journal Responsibility:

- Journal of Biosciences
- FASEB Journal
- I SCIENCE
- RSC Advances

Research Experience

1. February 2015-February 2019 (Visiting Fellow)

Institution: Tata Institute of Fundamental Research, Mumbai
Advisor: Dr Ullas Kolthur-Seetharam

2. July 2012-December 2014 (Research Associate)

Institution: National Institute of Immunology, New Delhi.
Advisor: Dr. Sarika Gupta (NII); Co-Advisor: Prof. A. Surolia (IISc, Bangalore)

3. July 2007- 2012 (PhD project)

Institution: National Institute of Immunology, New Delhi.
Advisor: Prof. A. Surolia (IISc, Bangalore); Co-Advisor: Dr. Sarika Gupta (NII)

4. December 2006 – March 2007 (MS thesis project-II)

Institution: Department of Biochemistry, University of Delhi South Campus, New Delhi
Advisor: Prof. Vijay K Chaudhary

5. July 2006 – November 2006 (MS thesis project-I)

Institution: Department of Biochemistry, University of Delhi South Campus, New Delhi
Advisor: Prof. Prahlad C. Ghosh

6. May 2006 – July 2006 (Summer Training)

Institution: National Centre for Biological Sciences
Mentor: Dr Satyajit Mayor