

Dr. Debojyoti Chakraborty

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Current position CSIR- Institute of Genomics and Integrative Biology (New Delhi)

Senior Scientist [October 2016-]

Faculty of Biological Sciences, Academy of Scientific and Industrial Research

Assistant Professor [February 2017-]

Academic Affiliations CSIR- Institute of Genomics and Integrative Biology (New Delhi)

Scientist Fellow [January 2016- October 2016]

Biotechnology-Zentrum, Medical Faculty, Technical University Dresden

Post Doctoral Researcher [December 2013 – November 2015]

Max Planck Institute of Molecular Cell Biology and Genetics & Technical University, Dresden, Germany

PhD in Molecular Biology, 2014 [Magna Cum Laude]

West Bengal University of Technology, Kolkata, India

Master of Science in Molecular Biology, 2009 [DGPA 8.92, First position]

University of Kalyani, Kalyani, India

Bachelor of Science, 2007 [83%, First position]

Awards Wellcome Trust India Alliance Early Career Fellowship [2016]

INSPIRE Faculty Award, Department of Biotechnology, India [2015]

German Stem Cell Network Travel Award, Frankfurt, Germany [2015]

German Stem Cell Network Conference Poster Prize, Heidelberg, Germany [2014]

Nucleic Acids Research Poster Prize, Heidelberg, Germany [2014]

Dresden International Graduate School Travel Award, Dresden, Germany [2012]

Future of Science Foundation Scholarship, Keystone Symposia, Utah, USA (2012)

National Eligibility Test, Council for Scientific and Industrial Research, India [2009]

University merit scholarship, West Bengal University of Technology, Kolkata, India [2008]

Lindau Meeting of Nobel Laureates Award, DST (India) and DFG (Germany) [2007]

Summer Research Fellowship, Indian Academy of Sciences, Bangalore, India [2006]

Selected Talks and presentations

The European Molecular Biology Laboratory, Heidelberg, Germany [2015]

Goethe University, Frankfurt, Germany [2015]

Institute of Genomics and Integrative Biology, New Delhi, India [2015]

National Institute of Biomedical Genomics, Kalyani, India [2015]

National Center for Biological Sciences, Bangalore, India [2015]

Saha Institute of Nuclear Physics, Kolkata, India [2014]

Annual Conference of the German Stem Cell Network (GSCN), Heidelberg, Germany [2014]

International Congress on Stem Cells and Tissue Formation, CRTD, Dresden, Germany [2014]

Non-coding RNA- From Basic Mechanism to Cancer, German Cancer Research Center (DKFZ), Heidelberg, Germany [2014]

West Bengal University of Technology, Kolkata, India [2014]

Annual Meeting of Systems Biology of Stem Cells, Kirchberg, Austria [2013]

Keystone Symposia on Long Noncoding RNAs, Utah, USA [2012]

Selected Publications LncRNA *Pancf1* maintains mouse embryonic stem cell identity by recruiting TOBF1 to Oct-Sox sequences in early G1

Debojyoti Chakraborty, Maciej Paszkowski-Rogacz, Nicolas Berger, Li Ding, Jovan Mircetic *et al* (under review)

Highly specific gene targeting by Francisella Novicida Cas9

Arpit Mishra, Meghali Aich, Saumya Sharma, Shivani Jain.. **Debojyoti Chakraborty*** (under preparation)

CRISPR-Cas9: a new tool for gene therapy

Saumya Sharma, Souvik Maiti, **Debojyoti Chakraborty***. **eLS** (in press)

RNA G-quadruplex mediated structural enhancement of CRISPR-Cas9 based genome editing

Smita Nahar, Paras Sehgal.. **Debojyoti Chakraborty*** (under preparation)

CRISPR/Cas9: a historical and chemical biology perspective of targeted genome engineering

Amrita Singh, **Debojyoti Chakraborty***, and **Souvik Maiti***. **Chem. Soc. Rev.** (2016)

Inactivation of cancer mutations utilizing CRISPR/Cas9

Christina Gebler, Tim Lohoff, Maciej Paszkowski-Rogacz, Jovan Mircetic, **Debojyoti Chakraborty et al.** *Journal of the National Cancer Institute* (2016)

Directed evolution of Brec1: A broad-range recombinase that inactivates HIV-1 in patient-specific humanized mice

Janet Karpinski, Ilona Hauber, Jan Chemnitz, Carola Schäfer, Maciej Paszkowski-Rogacz, **Debojyoti Chakraborty et al.** **Nature Biotechnology** (2016)

Targeting Human Long-Noncoding Transcripts by Endoribonuclease-prepared siRNAs

Mirko Theis, Maciej Paszkowski-Rogacz, Ina Weisswange, **Debojyoti Chakraborty**, Frank Buchholz. **Journal of Biomolecular Screening** (2015)

Systems Analyses Reveal Shared and Diverse Attributes of Oct4 Regulation in Pluripotent Cells

Li Ding, Maciej Paszkowski-Rogacz, Maria Winzi, **Debojyoti Chakraborty**, Mirko Theis *et al.* **Cell Systems** (2015)

Universal Tre (uTre) recombinase specifically targets the majority of HIV-1 isolates

Janet Karpinski, Jan Chemnitz, Ilona Hauber Josephine Abi-Ghanem, Maciej Paszkowski-Rogacz, Vineeth Surendranath, **Debojyoti Chakraborty** *et al.* **Journal of the International AIDS Society** (2014)

Combined RNAi and localization for functionally dissecting long noncoding RNAs

Debojyoti Chakraborty, Dennis Kappei, Mirko Theis, Anja Nitzsche, Li Ding, Maciej Paszkowski-Rogacz *et al.* **Nature Methods** (2012)

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