

Personal Profile

Dr. Ritabrata Banerjee

Assistant Professor and Head of the Department

Department of Zoology

Parimal Mitra Smriti Mahavidyalaya (Affiliated to University of North Bengal)

Malbazar, Jalpaiguri

Visiting Faculty:

S.N. Pradhan Centre for Neurosciences, University of Calcutta, Kolkata -700019

Former Post-Doctoral Research Associate in Department of Psychiatry,
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Academic Profile

Degree	Year	Board /University
PhD	2014	Jadavpur University (Department of Life Science and Biotechnology)
PG Diploma (DOEACC A Level)	2012	DOEACC SOCIETY, Kolkata Centre
M.Sc.	2009	University of Calcutta (Ballygunge Science College)
B.Sc.(Hons.)	2007	University of Calcutta

Title of the PhD. Thesis:

Evaluation of expression of Neurotrophins and their Receptors in rat brain : An analysis of the
Molecular basis of Depression

Research Experience

Former Post Doctoral Research Associate in Department of Psychiatry, University of Illinois,
1601 West Taylor Street, Chicago, Illinois 60612 from April, 2015 to April, 2017.

List of Paper Publications:

- 1) Bandyopadhyay R, Nritye Mon Meramat. *Sharir O Shasthyo* [an Indian Bengali weekly Journal], 15th November, 2024, Page 74-76.
- 1) Banerjee R, Manorog Niramoye Music Therapy. *Nibodhata* [Journal in Bengali Version], September-October 2024, 38(3): (Sharadiya Sankhya): 373-375. UGC CARE Listed Journal
- 2) Banerjee R, Manorog Niramoye Ankan Therapy. *Visvavani* [Journal in Bengali Version], September 2024, 86 (Sharadiya Sankhya): 625-628.
- 3) Banerjee R, Santar Sudhu Deher Byam Noy- Monorogero Dawai. *Vabmukhe* [Journal in Bengali Version], September 2024, 78 (6): 146-148.
- 4) Bandyopadhyay R, Ma Hoar Por Oboshad Katate Psychotherapy. *Bartaman Patrika* [an Indian Bengali daily newspaper], 20th April, 2024, Chatuspornee: Page 2.
Article Link: <https://bartamanpatrika.com/home?cid=29&id=540072>
- 5) Banerjee R, Sangeet er Sangee Sri Sri Ma Sarada. *Visvavani* [Journal in Bengali Version], September 2023, 85 (Sharadiya Sankhya): 90-92.
- 6) Banerjee R, Das M, Ghosh AK. Gender-related Alterations in Neurochemical Milieu of Suicide: An Analysis in Human Postmortem Brain. *Biological Forum – An International Journal*. January, 2023, 15(1): 601-609. UGC CARE Listed Journal
- 7) Banerjee R, Moner Nihswartha Bandhu. *Udbodhan*. October, 2022, 124(10): 52-55. UGC CARE Listed Journal
- 8) Banerjee R, Manorog Niramoye Mantram Therapy. *Nibodhata*. March-April 2022, 35(6): 673-676. UGC CARE Listed Journal
- 9) Banerjee R, Manorog Niramoye Horticulture Therapy. *Udbodhan*. February 2021, 123(2): 130-131. UGC CARE Listed Journal
- 10) Dulman RS, Zhang H, Banerjee R, Krishnan HR, Dong B, Hungund BL, Vinod KY, Pandey SC. CB1 receptor neutral antagonist treatment epigenetically increases neuropeptide Y expression and decreases alcohol drinking. *Neuropharmacology*. 2021, 195(108623): 1-10. Impact Factor: 5.251
- 11) Banerjee R, Abashad O Atmahatya Dur Karte Adhyatmikata. *Nibodhata*. November-December 2020, 34(4): 410-412. UGC CARE Listed Journal
- 12) Banerjee R, Atmohananer Baijyanik Karon O Tar Sambhabya Pratibidhan, *Udbodhan*. October 2018, 120(10): 932-934. UGC CARE Listed Journal
- 13) Kyzar EJ & Banerjee R. Targeted Epigenetic Modulation of Gene Expression in the Brain. *The Journal of Neuroscience*. 2016, 36(36):9283-9285. Impact Factor: 6.709

- 14) Banerjee R, Hazra S, Ghosh AK, Mondal AC. Chronic administration of BM increases BDNF protein and mRNA expressions: A study in CUS induced animal model of depression. *Psychiatry Investigation*. 2014, 11(3):297-306. Impact Factor: 2.505
- 15) Banerjee R, Ghosh AK, Ghosh B, Bhattacharya S, Mondal AC. Suicide: Neurochemical Approaches. *Broad Research in Artificial Intelligence and Neuroscience*. 2013, 4: 97-104.
- 16) Banerjee R, Ghosh AK, Ghosh B, Mondal AC. Role of NGF/Trk A signaling milieu in depressogenic induction of rat brain. *Al Ameen Journal of Medical Sciences*. 2013, 6(4): 355-363.
- 17) Banerjee R, Ghosh AK, Ghosh B, Bhattacharya S, Mondal AC. Decreased mRNA and Protein Expression of BDNF, NGF, and their Receptors in the Hippocampus from Suicide: An Analysis in Human Postmortem Brain. *Clinical Medicine Insights: Pathology*. 2013, 6: 1-11.
- 18) Banerjee R, Hazra S, Kumar S, Ghosh AK, Mondal AC. Behavioral Consequences of Chronic Stress and Effects of Antidepressant Treatment on Animal Models of Depression. *American Journal of Psychiatry and Neuroscience*. 2013, 1(1): 5-13.
- 19) Banerjee R, GhoshAK, Ghosh B, Mondal AC. Chronic administration of Fluoxetine ameliorates depression: Enhanced BDNF and its receptor TrkB expressions with down stream signalling cascades ERK1/2 and Akt pathways. *J Pharm Biomed Sci*. 2013,30(30): 975-985.
- 20) Banerjee R, Ghosh AK, Ghosh B, BhattacharyaS, Mondal AC. Reduced Expression Profile of Neurotrophins and their CognitiveReceptors in the Hippocampal Region of Postmortem Suicidal Brain. *Nerve*. 2012,1(1): 13-17.
- 21) Hazra S, Banerjee R, Das BK, GhoshAK, Banerjee TK, Hazra US, BiswasSK, Mondal AC. Evaluation of Antidepressant activity of *Bacopa monnieri* in rat: A study in Animal Model of Depression. *Drug Discovery*. 2012,2(4): 8-13.
- 22) Banerjee R, GhoshAK, Ghosh B, Mondal AC. Effect of chronic inescapable footshock and antidepressant treatment on BDNF/TrkB levels in rat hippocampus. *Research and Reviews: A Journal of Neuroscience*. 2012, 2(2): 12-21.
- 23) Banerjee R, Ghosh AK, Ghosh B, Batabyal S, Mondal AC. Effects of chronic mild stress on brain derived neurotrophic and nerve growth factors in the rat hippocampus. *Neuroscience Research Letters*. 2012, 3(1): 29-34.
- 24) Banerjee R, Ghosh AK, Mondal AC. Effects of chronic stress and antidepressant treatment on behavioral, physiological and neurochemical aspects in male and female rats. *Al Ameen Journal of Medical Sciences*. 2012, 5(2): 165-176.
- 25) Banerjee R, Ghosh AK, Ghosh B, Mondal AC. Female-Specific Depression Induction in Learned-Helplessness Model of Rats. *International Journal of Bioengineering Science and Technology*. 2011, 2(3): 51-59.
- 26) Banerjee R, GhoshAK, Ghosh B, Mondal AC. Stress: The Negative modulator of NGF. *Research and Reviews: A Journal of Life Sciences*. 2011, 1(2): 1-9.

27) Banerjee R, Das M, Mondal AC, Ghosh B, Ghosh AK. Influences of chronic stress and antidepressant treatment on the hippocampal concentrations of macromolecule BDNF (Brain-derived neurotrophic factor) in a rat model of Learned helplessness. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*. 2011, 13(4): 625-632.

List of Book Publications:

1) Banerjee R. Analysis of genetic and epigenetic alterations in breast carcinomas. (ISBN No: 978-3-659-15933-6), 2012, LAP LAMBERT Academic Publishing GmbH & Co. KG (Germany)

2) Banerjee R. and Banerjee P. Textbook of Zoology (Developmental and Evolutionary Biology) (978-81-19948-30-7), 2023, Global Net Publication (An Imprint of Asian Humanities Press), New Delhi: 110002

3) Bandyopadhyay R. “Bongshogoto Byadhi” (ISBN: 978-93-341-6677-4), November, 2023, Pratima Prakashani, Kolkata-700073.

4) Dey C., Chattopadhyay A., Bandyopadhyay R. and Bandyopadhyay P. K. Snatak Pranibidya: Koshbidya (A text book on Cell Biology in Bengali Version as per NEP 2020 Curriculum) (ISBN: 978-93-93691-67-5), January, 2024, Parul Prakashani Pvt. Ltd, Kolkata: 700009.

5) Chattopadhyay A., Dey C., Bandyopadhyay R. and Bandyopadhyay P. K. Pranibidya Jaibo Roshyaon (A text book on Biochemistry in Bengali Version as per NEP 2020 Curriculum) (ISBN: 978-81-19948-92-5), 2024, Global Net Publication (An Imprint of Asian Humanities Press), New Delhi: 110002.

Awards Received:

1) Outstanding Paper Award received in 30th WEST BENGAL STATE SCIENCE & TECHNOLOGY CONGRESS, 2023 on 1st March, 2023, Science City Auditorium, Kolkata.

2) 2nd place in Poster Award of 7th Annual Department of Psychiatry Annual Research Forum/Extravaganza, University of Illinois, Chicago, USA.

3) Travel award winner of XX World Congress on Parkinson’s Disease and Related Disorders Geneva, Switzerland, 8-11 December, 2013 for Oral Presentation of research paper.

4) Winner of Young Scientist Award (Tulsabai Somani Educational Trust Award) at the XXXI Annual Conference of Indian Academy of Neurosciences for the best paper presented at the Oral Session, 25-27 October, 2013.

- 5) Stood Second in Rank in MSc. examination from University of Calcutta in 2009.
- 6) Won ASM Memorial Medal, 2009 for scoring highest marks in Cytogenetics & Molecular Biology as Elective paper from Zoological Society of Kolkata, University of Calcutta.
- 7) Got selected and successfully completed 8th Technology Led Entrepreneurship Programme organized by CSIR-HRDG from July 4-18, 2011 at Indian Institute of Chemical Technology, Hyderabad-500607.

Ritabrata Bomerjee

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