



DR. ANTARA BANERJEE, M. Sc, Ph.D.

Associate Professor.

Department of Regenerative Biology and Biotechnology

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Contact No: +919566072596; +917401790276

Total Experience: 17 years

Key Areas of Interest

My Lab is interested in aspects of analysing the tumor specific niche/microenvironment as a therapeutic target for colon cancer including the epigenetic signals with the ultimate goal of identifying novel therapeutic strategies to improve treatment outcome in patients.

We study the role of mesenchymal niche in tissue regeneration and exploring signaling pathways in governing stem cell fate.

Research Guidance

- Ongoing PhD/PG/UG Projects: PhD: 4; PG: 4; UG: 8
- Completed PG/UG Projects: PG: 7; UG: 8

Course Completed

Successfully completed graduate course work (2 months) and examination for Handling and usage of Laboratory Animal Sciences (2014) in Linköping University, Sweden. Recognized by European Union, USA, India, FELASA to work on genetically modified and all research animals.

Qualifications

- M.Sc: 2004, University of Kalyani, India
- Ph.D.: 2008, University of Kalyani, India

Professional Experience

- Associate Professor, CARE, FAHS, Chennai, 2018 till date.
- Assistant Professor (Sr Grade), CARE, FAHS, Chennai, 2016-2018.
- Senior Post Doctoral Researcher, 2014-2015, Microbiology and Molecular Medicine, Department of Clinical and Experimental Medicine, Linköping University, Sweden.
- Post-Doctoral Researcher, 2009-2011. Department of Gastroenterology and Surgical Sciences. University of Padova, Padova, Italy.
- Senior Post-Doctoral Researcher 2007-2008, Department of Zoology, University of Kalyani

Summary of Research

- (<https://www.ncbi.nlm.nih.gov/pubmed/?term=Antara+Banerjee>)
- <https://scholar.google.se/citations?user=THVjwpIAAAAJ&hl=en>

Citation indices	Total	Since 2017
Papers	83	46
Citations	1277	837
h-index	18	14
i10-index	30	24

Patent Applied (2017-2020)

- Methods, effects and application of inhibition of Wnt/ β catenin signalling pathway in mesenchymal stem cells (**Patent number: R20184000131**)
- Methods and process to derive condition medium (**Patent number: R20184000140**).
- A method of induce rapid transdifferentiation of mesenchymal stem cell and its application thereof (**Patent number: 202041051674**)

Personal Details

Name: Dr. Antara Banerjee.

Gender: Female.

Marital Status: Married

Contact No: 091-9566072596;

091-7401790276.

Office: +91-44-47429050.

Languages known:

Full proficiency (Read, Write, Speak): English, Hindi, Bengali.
Elementary- Italian.

Scientific Organization

Memberships:

1. **Lifetime member of Indian Association of Cancer Research (IACR)**
2. **Lifetime member of Indian Science Congress**
3. **Member of Aesthetic Multispeciality Society AMWC, Europe.**

Declaration:

I hereby declare that the details provided in this resume is true. I shall strive to keep up the esteem of your institution and can carry out programs under established policies.

Achievements

A. Extramural projects (Grants Received) ongoing/completed:

1. **PI- Dr. Antara Banerjee** Awarded Young Scientist award by **DST SERB, ECR award, Govt of India** of 34 Lakhs, 2018-2021 in project entitled "Role of human umbilical cord mesenchymal stem cells (UC-MSCs) and UC-MSC derived conditioned medium in regulation of colon cancer progression: An approach towards elucidating function of paracrine factors and epigenetic regulators". – Completed.
2. **PI- Dr. Antara Banerjee**, "Testing the Anticancer action of Cell-Norm in Colon cancer, Uterine Cancer and Prostate cancer". **Retort Pharmaceuticals, Chennai, India. Ongoing.**
3. **PI- Dr. Antara Banerjee**, "Investigating the role of 4-Phenylbutyric acid in reducing the endoplasmic reticulum stress-mediated unfolded protein response in dextran sulfate sodium-induced colitis". **DST- INSPIRE, Govt. of India, 2021-2026- Ongoing.**
4. **PI- Dr. Antara Banerjee**,
5. **PI- Dr. Antara Banerjee**, "Anti-inflammatory effects of combinational therapy of *Lycopodium clavatum* and Quercetin, against colon cancer: An *in vitro* study". CARE- **Completed.**

B. Invited Speaker/ Chair/ Travel Grant Received for International Conferences:

1. Received travel, accommodation, registration grant from AMWC ASIA & TDAC (Taiwan Dermatology aesthetic conference), 2019, Taiwan-Taipei as an invited Speaker
2. Received travel, registration grant, BIOzone, IIT Mardras, 2018.
3. Invited Speaker NACRAT International conference, Chennai, 2018.
4. Invited Speaker in International Conference on "Novel antibiotic resistance breakers and diagnostic biomarkers", (ICARB-2017), Chennai.
5. Invited speaker in National Symposium on "Stem Cells and Regenerative Medicine" organised by Department of Genetic Engineering, SRM IST, Kattankulathur, Tamil Nadu, 2021.
6. Keynote Speaker at Virtual Conference on Stem Cell Research held during November 23,2020, organised by Meetings International, UAE.
7. Invited Speaker in IBRO-MENA 7th International Workshop on Food and Brain Health, April 7-8, 2021, Oman.
8. Invited speaker in "International webinar on the relevance of omics and regenerative medicine in the pandemic situation", Fifth Edition, Organized by- Dept. of Zoology, University of Kerala. 23-24 April 2021.
9. Invited speaker at Virtual Symposium on "Stem cell research & Regenerative Medicine", India, Feb 24, 2021, Organized by SRM University, India.
10. Invited speaker in Virtual Symposium on "Stem cell research & Regenerative Medicine", Nov 23, 2020, organized by Meetings International, Singapore.

C. Editorial Board Membership/Reviewer:

1. **Endocrine, Metabolic & Immune Disorders - Drug Targets** (IF- 3.0).
2. **Current Aging Science (IF-1.8)**, Bentham Science Publishers.
3. Reviewer of journals of Elsevier, Taylor Francis, Biomed Central, Bentham Sciences
4. **Editor:** "Stem Cells and Aging"- Book by Elsevier Publishing House, USA
5. **Editor:** "Cancer Stem Cells- New Horizon in Cancer Therapy" Book by SPRINGER-NATURE Publishing House, USA
6. **Editor:** Special Issue Endocrine, Metabolic & Immune Disorders - Drug Targets on MicroRNA and Colon Cancer.
7. **Editor:** "Stem Cells and Signaling Pathways"- Book by Elsevier Publishing House, USA.
8. **Editor:** "Handbook of Animal Models and its Uses in Cancer Research" Book by SPRINGER NATURE Publishing House, USA