

Dr. Subhasis Barik, Ph. D.

Senior Scientific Officer (Grade II)

2018 Senior Scientific Officer (Grade II), Department of IVCCC, Chittaranjan National Cancer Institute, Kolkata.

2018 Ramalingaswami Fellowship, Department of Biotechnology, Govt. of India.

2017-2018 Postdoctoral fellow, CSIR-IICB, Kolkata.

2014- 2017 Postdoctoral fellow, Department of Molecular Microbiology and Immunology, University of Missouri, Columbia, USA.

2013 Ph.D., Life Science & Biotechnology, Jadavpur University (Chittaranjan National Cancer Institute).

2007 M.Sc., Microbiology, University of Calcutta.

2005 B.Sc., Microbiology, University of Calcutta.



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Research Interest (very brief)

My research objectives are to investigate the heterotypic interactions occurring in the various immune cell types and to understand cellular and molecular signaling pathways that orchestrate the differentiation and development process in immune cells in cancer and other inflammatory autoimmune diseases.

1. Identification of intra-thymic mechanisms associated with T-cell commitment from T-stem/progenitor cells and robust T-cell proliferation in T-cell leukemia/lymphoma.
2. Understanding the molecular mechanisms of tumor-antigen specific T-cell generation in thymus and its manipulation to combat defective immunity in cancer.
3. Understanding the molecular mechanisms that help antigen presenting cells in self and foreign antigen discrimination and its impact on T-cell activation to control immunity in cancer and autoimmunity.

Research Group

This is a new laboratory and ambitious researchers (preferably with their own Fellowship/Funding) are welcome to join my group for pursuing PhD/Postdoc. Interested candidates may contact directly at barik.subhasis@gmail.com along with CV and a brief statement on research interests.

List of Selected Publications:

1. **Barik S**, Cattin-Roy AN, Miller MM, Ukah TK, Zaghouni H. IL-4 and IL-13 Guide Early Thymic Progenitors To Mature toward Dendritic Cells. **J Immunol.** 2018; 201(10):2947-2958.
2. **Barik S**, Miller MM, Cattin-Roy AN, Ukah TK, Chen W and Zaghouni H. IL-4/IL-13 Heteroreceptor signaling inhibits the potential of early thymic progenitors to commit to the T-cell lineage. **J Immunol.** 2017; 199(8):2267-2776.
3. **Barik S**, Ellis JE, Casio JA, Miller M, Ukah TK, Cattin-Roy AN and Zaghouni H. IL-4/IL-13 heteroreceptor influences Th17 cell conversion and sensitivity to suppression to restrain experimental allergic encephalomyelitis. **J Immunol.** 2017; 199(7):2236-2248.
4. **Barik S**, Miller MM, Cattin-Roy AN, Ukah TK and Habib Zaghouni. A distinct dendritic cell population arise in the thymus of IL-13R α 1-sufficient but not IL13R α 1-deficient mice. **Cell Immunol.** 2018: S0008-8749(18)30136-9.
5. Ukah TK, Cattin-Roy AN, Chen W, Miller MM, **Barik S**, and Zaghouni H. On the role of IL-4R α /IL-13R α 1 heteroreceptor in Type I diabetes. **J Immunol.** 2017; 199(3):894-902.
6. Chen W, Wan X, Ukah TK, Miller MM, **Barik S**, Cattin-Roy AN and Zaghouni H. Antigen-specific immune modulation targets mTORC1 function to drive chemokine receptor-mediated T cell tolerance. **J Immunol.** 2016; 197(9):3554-3565.

EXTRAMURAL PROJECTS

DBT Ramalingaswami Re-Entry fellowship

INTRAMURAL PROJECTS

PI	Project Title	Funding Agency
Dr. Subhasis Barik	Identification of intra-thymic mechanisms associated with T-cell commitment from T-stem/progenitor cells and robust T-cell proliferation in T-cell leukemia/lymphoma.	Chittaranjan National Cancer Institute, Kolkata.

Department Name: In Vitro Carcinogenesis and Cellular Chemotherapy

Scientist Name: Dr. Subhasis Barik, Ph.D

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Brief description of the ongoing research work:

[View:](#)