

Susmita Mondal
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Academic Appointments:

2019 June-Till date- Assistant Professor in Department of Zoology, DHWU, West Bengal, India

Education:

- **Ph.D.** pursuing, from Indian Institute of Chemical Biology (under University of Calcutta), Kolkata, India. Thesis entitled “**Role of tumor microenvironment in the regulation of cancer stem cells: Signaling to therapeutic approach**”.
- **Master of Science** in Zoology from University of Calcutta, Kolkata, 2014 with First class [Special paper- Molecular cell biology]
- **Bachelor of Science** in Zoology from University of Calcutta, Kolkata, 2012 with First class.

Achievements / Awards:

- National Eligibility Test (NET) under CSIR-UGC, Government of India, 2013 and 2014.
- Graduate Aptitude Test in Engineering (GATE) under the Department of Education, Ministry of Department of Education, Ministry of Human Resource and development, Government of India in Life Science, 2014.
- First class in M Sc. in University of Calcutta.
- First Class in Bachelor of Science (University of Calcutta, India)

Research Interest:

- Modulation of tumor microenvironment to understand the regulation of cancer stem cells (CSC).
- Development of anticancer therapeutics from natural compounds to target Cancer as well as CSCs
- Evaluation of drug resistance properties of CSCs and chemo sensitization of those cells through modulation of signaling pathways.

List of Publications:

1. **Mondal S**, Bhattacharya K, Mandal C. Nutritional stress reprograms dedifferentiation in glioblastoma multiforme driven by PTEN/Wnt/Hedgehog axis: a stochastic model of cancer stem cells. **Cell death discovery**. 2018 Dec 5;4(1):110.

2. Maiti S, **Mondal S**, Satyavarapu EM, Mandal C. mTORC2 regulates hedgehog pathway activity by promoting stability to Gli2 protein and its nuclear translocation. **Cell death & disease**. 2017 Jul;8(7):e2926.
3. Bag A, Mandloi S, Jarmalavicius S, **Mondal S**, Kumar K, Mandal C, Walden P, Chakrabarti S, Mandal C. Connecting signaling and metabolic pathways in EGF receptor-mediated oncogenesis of glioblastoma. **PLOS Computational Biology**. 2019 May;

Conferences Attended & Participated:

▪ Conference poster presentations

1. Susmita Mondal. Poster entitled 'Nutritional-stress induces cancer stem-like features in GBM: involvement of PTEN/Wnt axis in a stochastic model of CSC. 4th International Conference on Transnational Research Goa, 11-13 October, 2018, India.
2. Susmita Mondal. Poster entitled 'mTORC2 regulates hedgehog pathway activity in GBM: promising target to combat cancer stem-like cells. 37th Indian Association for Cancer Research (IACR): From Cancer Biology to Precision Oncology: Challenges and Considerations during February 23 -25, 2018 at Bose Institute, Kolkata, India.

▪ Other conferences attended

1. Susmita Mondal. Attended the Symposium organized by UKIERI, KoIGO Trg and Tata Medical Center on 31st January 2018 at Tata Medical Center, Kolkata, India.
2. Susmita Mondal. Attended the 1st Annual Cancer Biobanking Workshop 2017 on 12th -13th January 2017 at Tata Medical Center, Kolkata, India.
3. Susmita Mondal. Attended the International Conference on Transnational Research & Workshop on Flow Cytometry on 16th -18th April 2016 at Bose Institute, Kolkata, India.
4. Susmita Mondal. Attended the Seminar on Ecological Modeling and Analyses on 1st March 2014 at University of Calcutta, Kolkata, India.

Teaching and Training Experiences

- Mentoring 2 project trainees for their post-graduate summer projects.