CURRICULUM VITAE

Dr. Biswarup Basu Senior Scientific Officer-II Chittaranjan National Cancer Institute 37,S.P.Mukherjee Rd,Kolkata-700026



Awards &Fellowships: NET (CSIR-JRF), June 2004, NET (L.S) December 2003

GATE 2004(92.88 percentile), SLET 2004

CSIR-NEHRU postdoctotorate fellowship,2010

NIH postdoctorate fellowship ,2011 SERB-YSS grant (2015-2018)

Education: 2010 Ph.D (Biotechnology), Jadavpur University, India.

2003 M.S (Zoology), University of Calcutta, India (71.2%)
2001 B.S (Zoology), University of Calcutta, India (63.5%)
1998 Higher Secondary (10+2), W.B.C.H.S.E (65.7%)

1996 10th ,W.B.B.S.E. (82.2%)

Thesis title: "Role of Dopamine in Proliferation and Growth of Normal and Leukemic T cells in vitro"

Professional Experience:

Year	Institution	Role
August 2004-April 2005	Bose Institute, Kolkata	Project Assistant
May 2005-July 2010	Chittaranjan National Cancer Institute	Ph.D fellow
April 2011-Oct2013	National Cancer Institute(NCI), Maryland, USA	Postdoctorate Research
Oct2013-April2015	Apeejay Stya University, Haryana	Assistant Professor, Gr-II
April 2015-Nov 2018	Amity University, Noida	Assistant Professor, Gr-III
Nov 2018- ongoing	Cittaranjan National Cancer Institute, Kolkata	Senior Scientific Officer-II

Professional Membership: Zoological Society of India(Life Member)

Indian Association of Cancer Research(Life member)
Indian Science Congress Association(Life Member)

Sanctioned Projects -

- a. Ongoing: "Study on effect of Dopamine/Dopamine D2 agonist treatment with IGF-1 to regulate angiogenesis and normalize blood vessels in Diabetic Retinopathy"(Co-PI, DST, 2017-2020)
- b. Completed: "Evaluation of effect of Neem leaf glycoprotein treatment in cancer stem cells(CSC) and epithelial to mesenchymal transition (EMT) in breast cancer" (PI, DST-YSS, 2015-2018)

Patent Applied:

A method of targeting RRM domain of NCL with natural compounds

Research interests

Independent Research: Chittaranjan National Cancer Institute and Amity university

- 1. Targeting breast and ovarian cancer with nanodelivery of natural and synthetic compounds
- 2. Investigating dynamics of insulin and dopamine in diabetic wound healing and burns
- 3. Neural- immune influence in c

Postdoctorate Research : NCI(NIH) ,USA

- 1.Study of inflammatory gene IL-32 as oncogene
- 2. Identification of Vav oncogene as stem cell mobilizer
- Doctoral Research: Chittaranjan National Cancer Institute, Kolkata, India Study of neuroimmune regulation of different tumor development in human and animals and how Dopamine can be used as a small molecule inhibitor of angiogenesis.
 - Pre Ph.D Research: Bose Institute, Kolkata, India
 PPK gene and its implication in *Mycobacteria*

Conference Presentation/participation

- a. Poster presented at symposium in Golden Jubilee Celebration of C.N.C.I., Kolkata on Nov 1-3rd, 2007.
- b. Organized international symposium; "Issues and Challenges in Doctoral Research" August, 2014.
- c. Oral presentation at "6th International Conference on Stem Cells and Cancer (ICSCC-
- 2015) Proliferation, Differentiation and Apoptosis" on 6th -8th October, 2015, Pune.
- d. Participated at "Indo-UK symposium" at Amity university, 6-8th February, 2016.
- e. Oral presentation at "World Biotechnology Congress" at JNU,2017
- g. Poster presentation at IACR 2018 at Bose Institute integrated campus, Kolkata ,Jan 2018.
- h. Poster presentation at INTZOOCON 2018 at Ramkrishna Mission seva Pratisthan, Feb2018.
- i. Participated in 10th East Zonal Oncology Symposium at SGCCRI on 19th January, 2019
- j. Poster presentation at Indian Science Congress ,Jan 2020
- k. Organized one day symposium at IACR-West Bengal Chapter, Jan 2020
- 1. Presented at Indian Association for Cancer Research (IACR March 2020)

Publications

- 1. Electrospray based fluorescent nanoparticle synthesis from pyrene butyric acid-functionalized poly (D, L-lactide-coglycolide) polymer for the efficient delivery of anticancer drug and selfmonitoring its effect in the drug-resistant breast cancer cells. *Chatterjee M, Maity R, Das S, Mahata N, Basu B*, Chanda N*,* **Materials Advances. 2020, 1(8), 3033-3048**
- 2. Multi-Component approach for synthesis of quinolinyl-1,4-dihydropyridines, evaluation of cytotoxicity against MCF7 and molecular docking studies. *Suresh S, Das S, Waidha K, Maity R, Basu B**, *Saravanakumar R**

Chemistry Select. 2020, 5(34), 10501-10510

3. Synthesis, spectral analysis and in vitro cytotoxicity of diorganotin (IV) complexes derived from indole-3-butyric hydrazide. *J Devi**, *J Yadav*, *D Kumar*, *DK Jindal*, **B Basu**Applied Organometallic Chemistry.2020, 34(10), e5815

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4. A novel triazole NMK-T-057 induces autophagic cell death in breast cancer cells by inhibiting γ-secretase-mediated activation of Notch-signaling. *Das A**, *Narayanam MK*, *Paul S*, *Mukherjee P*, *Ghosh S*, *Ghosh Dastidar D*, *Chakrabarty S*, *Ganguli A*, *Basu B*, *Pal M*, *Chatterji U*, *Banerjee SK*, *Karmakar P*, *Kumar D*, *Chakrabarti G**.

Journal of Biological Chemistry. 2019,26;294(17):6733-6750

5.Design, synthesis and identification of novel coumaperine derivatives for inhibition of human 5-LOX: Antioxidant, pseudoperoxidase and docking studies. *Muthuraman S, Sinha S, Vasavi CS, Waidha KM*, *Basu B*, *Munussami P, Balamurali MM*, *Doble M, Saravana Kumar R**.

Bioorg Med Chem. 2019, 15;27(4):604-619

6. Novel Nano-insulin Formulation Modulates Cytokine Secretion and re-epithelialization to Accelerate Diabetic Wound Healing. *Kaur P, Sharma AK, Nag D, Das A, Datta S, Ganguli A*, **Basu B***, Chowdhury D*.

Nanomedicine. 2019 Jan;15(1):47-57

7.Sustainable synthesis of single crystalline sulphur-doped graphene quantum dots for bioimaging and beyond . Sangam S, Gupta A, Shakeel A, Bhattacharya R, Sharma AK, Suhag D, Chakrabarti S, *Basu B* Garg SK, Dutta MK, Mukherjee M*

Green Chemistry, 2018, DOI: 10.1039/c8gc01638k

8.Dopamine Regulates Angiogenesis in Normal Dermal Wound Tissues.

Shome S, Rana T, Ganguly S, Basu B, Choudhury S, Sarkar C, Chakroborty D, Dasgupta PS*, Basu S

PLoS One. 2011;6(9):e25215

9.D1 and D2 Dopamine receptor mediated inhibition of activated normal T cell proliferation is lost in Jurkat T leukemic cells.

Basu B, Sarkar C, Chakroborty D, Ganguly S, Shome S, Dasgupta PS*, Basu S* Journal of Biological Chemistry, 2010, 285(35): 27026-27032

10.Dopamine by acting through its D2 receptors inhibits IGF-I induced gastric cancer cell proliferation by upregulating Krüppel like factor 4 through down regulation of IGF-IR and AKT phosphorylation. *Ganguly S, Basu B,Shome S, Jadhav T, Roy S, Majumdar J, Dasgupta PS**, Basu S* American Journal of Pathology ,2010 ,177(6):2701-2707

11. The Immunoregulatory Role of Dopamine: An Update. Sarkar C, **Basu B**, Chakroborty D, , Dasgupta PS*, Basu S*

Brain, Behavior and Immunity, 2010, 24(4):525-528

12.Catecholamines Regulate Tumor Angiogenesis.

Chakroborty D, Sarkar C, Basu B, Dasgupta PS*, Basu S* Cancer Research, 2009, 69, (9), 2009: 3727-3730

13.Stimulation of Dopamine D4 Receptors Induce T Cell Quiescence by Up-Regulating Kru¨ppel-Like Factor2 Expression through Inhibition of ERK1/ERK2 Phosphorylation.

Sarkar C, Das S, Chakroborty D, Chowdhury UR, Basu B, Dasgupta PS*, Basu S*

Journal of Immunology, 2006, 177: 7525–7529