

SOMADITYA DEY

Name and full current address: **Somaditya Dey (M.Sc.), Assistant Professor, West Bengal Education Service, Post Graduate Department of Zoology, Barasat Government College, 24 Parganas (N), 10, K.N.C. Road, Pin - 700 124, West Bengal, India.** Telephone: Tel: **(033) 25523365 (O), 08013247086 (M), FAX: (033) 25625053, E-mail : somaditya.dey@gmail.com**

Date of Birth: **20.02.1987**

Work Place Address: **Cellular Immunology & Experimental Therapeutics Laboratory, Department of Zoology, West Bengal State University. PI: Prof. Chiranjib Pal. M: 9831306386. E-mail: cpcu.immunology@gmail.com**

PhD: PhD Thesis submitted for evaluation on 03.12.18 at West Bengal State University. [Thesis title: "Host protection against drug -sensitive & –resistant *Leishmania donovani* infection by therapeutic combination of *Mycobacterium indicus pranii* (M.w.) & heat induced promastigotes promotes the up regulation of Flt3+ preDC leading to IL-6 producing CD11c+ cDC"]

- **ECI- AAI Travel Grant award, from American Association of Immunologists** for participating and poster presentation of the thesis work at the **European congress of Immunology, September, 2018**, organized by, EFIS and DSI, NVVI at Amsterdam, Netherland.
- **Poster presentation at 'Gordon Research Conference on Biology of Host- Parasite Interactions,' June, 2018**, at Newport, RI, USA. [**Applied to University Grants Commission, India for full travel support; application under consideration**]
- **'Young Scientist Travel Support Award from ICMR and CSIR India, sponsored by Govt. of India**, for participating and paper presentation (poster) at **ASM/ESCMID Conference on Drug Development to Meet the Challenge of Antimicrobial Resistance, September, 2017**, organized by the ASM & ESCMID, at Boston, USA.
- **'100 students initiative scheme' Travel Support Award from KAMRC, India, sponsored by WHO & DNDi, Geneva** for participating and paper presentation (ORAL) at **6th World Congress on Leishmaniasis, May, 2017**, organized by WHO Collaborating Centre for Leishmaniasis, Madrid and the Drugs for Neglected Diseases initiative, Geneva , at Toledo, Spain.
- **International Travel Support Grant as young scientist (DST Science & Engineering Research Board)** for attendance & paper presentation (ORAL) at **International Congress of Immunology, August, 2016**, Melbourne Australia, organized by International Union of Immunological Societies and the Australasian Society for Immunology. [Abstract published in *European Journal of Immunology*; 46(1): 2016].

Academic Qualification

EXAMINATION	BOARD/ UNIVERSITY	PERCENTAGE	CLASS/ DIVISION	YEAR OF PASSING
Joint CSIR-UGC NET (Life Sciences)	CSIR-UGC, India	N.A.	CSIR-UGC NET (LS) Rank-0030/0848 (2012)	2012, 2013, 2014
M.Sc. Zoology (Specialization in Parasitology & Immunology)	Bidhannagar College, W.B.S.U.	82.5%	1 st	2010
B.Sc. Zoology (Hons.)	Bidhannagar College, C.U.	61%	1 st	2008

Research and Academic Experiences

Name of Institution	Full Time/ Part Time	Particulars in Full	From	To
Dept. of Zoology, West Bengal State University	Full Time	JRF, DBT Project; PI: Dr. Chiranjib Pal	03.02.2012	31.05.2012
Dept. of Zoology, West Bengal State University	Full Time	Laboratory Assistant (Technician B), ICMR Project; PI: Dr. Chiranjib Pal	01.06.2012	19.02.2015
Post Graduate Dept. of Zoology, Barasat Govt. College	Full Time Permanent	Assistant Professor in Zoology, W.B.E.S., GoWB	20.02.15	Continuing

Patent and publications**Patent:**

“Synthesis and anti-leishmanial profile of novel water soluble ferrocenylquinoline derivatives” **Indian Patent Application No. 201831027970 of 25.07.2018.**

Publications:

1. **Somaditya Dey**, Debarati Mukherjee, Sirin Salma Sultana, Suvadip Mallick, Supratim Mandal, Aritri Dutta, Joydip Ghosh, Aabid Hussain, Pradyumna Patra, Bhaskar Saha and Chiranjib Pal. Combination of *Mycobacterium indicus pranii* and heat induced promastigotes cures drug-resistant *Leishmania* infection: Critical role of IL-6 producing classical dendritic cells. (**Manuscript ready for communication**)
2. Sultana Sirin Salma[#], Joydip Ghosh[#], Sondipon Chakraborty[#], Debarati Mukherjee, **Somaditya Dey**, Suvadip Mallick, Aritri Dutta, Soumitra Paloi, Somanjana Khatua, Tanmay Dutta, Soumen Bhattacharya, Krishnendu Acharya, Narayan Ghorai, Chiranjib Pal (2018) Selective *in vitro* inhibition of *Leishmania donovani* by a semi-purified fraction of wild mushroom *Grifola frondosa*. **Experimental Parasitology**; 192:73-84. **Impact Factor: 1.76** [#: Joint 1st author]
3. Md Yousuf[#]; Debarati Mukherjee[#]; **Somaditya Dey**; Abhishek Pal; Biswajyoti Sarkar; Chiranjib Pal and Susanta Adhikari. (2018) Synthesis and biological evaluation of polyhydroxylated oxindole derivatives as potential antileishmanial agent. **Bioorganic and Medicinal Chemistry Letters**, 28: 1056–1062. **Impact Factor: 2.46**. [#: Joint 1st author]
4. Md Yousuf[#], Debarati Mukherjee[#], **Somaditya Dey**, Chiranjib Pal, Susanta Adhikari* (2016). Antileishmanial ferrocenylquinoline derivatives: Synthesis and biological evaluation against *Leishmania donovani*. **European Journal of Medicinal Chemistry**, 124:468-479. **Impact Factor: 4.52**. [#: Joint 1st author]
5. Suvadip Mallick[¶], Aritri Dutta[¶], Ankur Chaudhuri, Debasri Mukherjee, **Somaditya Dey**, Subhadra Halder, Joydip Ghosh, Debarati Mukherjee, Sirin Salma Sultana, Gunjan Biswas, Tapan Kumar Lai, Pradyumna Patra, Indranil Sarkar, Sibani Chakraborty, Bhaskar Saha, Krishnendu Acharya and Chiranjib Pal* (2016). Successful therapy of murine visceral leishmaniasis with astrakurkone, a triterpene isolated from mushroom *Astraeus hygrometricus*, involves the induction of protective cell mediated immunity and TLR9. **Antimicrobial Agents and Chemotherapy**, 60(5): 2696-2708. **Impact Factor: 4.476**.
6. Pranab Ghosh, Ashim Ghosh, Amitava Mandal, Sirin Salma Sultana, **Somaditya Dey**, Chiranjib Pal (2016). Oxysterols: Synthesis and anti-leishmanial activities. **Steroids**, 107: 65-73. **Impact Factor: 2.64**.
7. Debarati Mukherjee[#], Chingakhm Brajakishor Singh[#], **Somaditya Dey**, Supratim Mandal, Joydip Ghosh, Suvadip Mallick, Aabid Hussain, Ningombam Swapana, Samir A Ross^d and Chiranjib Pal* (2016). Induction of apoptosis by Zerumbone isolated from *Zingiber zerumbet* (L.) Smith in

- protozoan parasite *Leishmania donovani* due to oxidative stress. *Brazilian Journal of Infectious Diseases*, 20(1): 48-55. **Impact Factor: 1.52.** [#: Joint 1st author]
8. Suvadip Mallick[#], **Somaditya Dey[#]**, Supratim Mandal, Aritri Dutta, Debarati Mukherjee, Gunjan Biswas, Soumya Chatterjee, Sanjaya Mallick, Tapan Kumar Lai, Krishnendu Acharya and Chiranjib Pal* (2015). A novel triterpene from *Astraeus hygrometricus* induces reactive oxygen species leading to death in *Leishmania donovani*. *Future Microbiology*, 10 (5): 763-789. **Impact Factor: 4.275.** [#: **Joint 1st author**]
9. Md Yousuf[#], Debarati Mukherjee[#], Abhishek Pal, **Somaditya Dey**, Supratim Mandal, Chiranjib Pal*, and Susanta Adhikari* (2015). Synthesis and Biological Evaluation of Small Molecule Ferrocenylquinoline as a Potential Antileishmanial Agent. *ChemMedChem*, 10 (3): 546-554. **Impact Factor: 2.97.** [#: Joint 1st author; *Joint Correspondence Author.]
10. **Somaditya Dey**, Debarati Mukherjee, Sondipon Chakraborty, Suvadip Mallick, Aritri Dutta, Ningombam Swapana, Swatilekha Maiti, Narayan Ghorai, Chingakhm Brajakishor Singh and Chiranjib Pal* (2015). Protective effect of *Croton caudatus* Geisel leaf extract against experimental visceral leishmaniasis induces proinflammatory cytokines *in vitro* and *in vivo*. *Experimental Parasitology*; 151–152: 84–95. **Impact Factor: 1.76.**
11. Pranab Ghosh, Amitava Mandal, **Somaditya Dey**, Chiranjib Pal (2015). Synthesis and *in vitro* screening of 29, 30-dibromo-28-oxoallobetulin against parasitic protozoans, *Leishmania donovani* and *Leishmania major*. *Indian Journal of Pharmaceutical Sciences* 77 (2), 202. **Impact Factor: 0.76.**
12. Suvadip Mallick[#], Aritri Dutta[#], **Somaditya Dey[#]**, Joydip Ghosh, Debarati Mukherjee, Sirin S Sultana, Supratim Mandal, Soumitra Paloi, Somanjana Khatua, Krishnendu Acharya, Chiranjib Pal* (2014). Selective inhibition of *Leishmania donovani* by active extracts of wild mushrooms used by the tribal population of India: An *in vitro* exploration for new leads against parasitic protozoans. *Experimental Parasitology*; 138: 9–17. **Impact Factor: 1.76.** [#: **Joint 1st author**]
13. Suvadip Mallick, Subhadra Halder, Aritri Dutta, **Somaditya Dey**, Sourav Maiti, Chandrakanta Bandyopadhyay, Bhaskar Saha and Chiranjib Pal* (2013). Chromone linked nitron derivative induces the expression of iNOS2 and Th1 cytokines but reduces the Th2 response in experimental visceral leishmaniasis. *International Immunopharmacology*; 15(4):772–779. **Impact Factor: 3.07**

Awards & Achievements

- **Oral presentation** at 1st regional science and technology congress, being organized by the DST, Govt. of West Bengal on November 13 and 14, 2016
- **Poster presentation** on, ‘Astrakurkurone, a novel triterpene isolated from Indian mushroom *Astraeus hygrometricus*, induces mitochondrial dysfunction and ROS dependent death in *Leishmania donovani*’ at National Seminar on “Ethnopharmacology: perspectives for Development of Ayurveda” on 19th March, 2016, jointly organized by NRIADD, CCRAS, GoI & SFE-India and awarded **best poster** for the same.
- **Poster presentation** on, ‘*Mycobacterium indicus pranii* (Mw) in combination with heat induced promastigotes persuade host protection against *Leishmania donovani* infection: Activation of IL-6 producing CD11c+ cDC and induction of CXCL10’ at Symposium on Frontiers in Modern Biology, 2015, organized by Dept. of Biological Sciences, IISER-Kolkata; December 5th -6th 2015 and awarded **best poster** for the same.
- **Oral presentation** at “Elimination of Leishmaniasis in South Asia by 2015: Myth or reality?” IPGMER, Kolkata on 22nd January, 2015.
- **Oral presentation and the best Poster presentation** on, ‘Astrakurkurone, a novel triterpene isolated from Indian mushroom *Astraeus hygrometricus*, induces mitochondrial dysfunction and ROS dependent death in *Leishmania donovani*’ at International Conference on "Molecular Biology and its Applications", on February 14th and 15th, 2014, by Department of Life Science and Biotechnology, Jadavpur University, Kolkata.

Training Programs and Workshops

- **Training Course on Clinical Flow Cytometry**, organized by CRNN, University of Calcutta in association with BD Biosciences (India); June 11th – 13th 2013.
- **International Workshop on Application of Flow Cytometry and Imaging in Cell Biology and Nano-Biotechnology**, organized by CRNN, University of Calcutta; August 11th-18th 2012.
- **National Workshop on Scanning Electron Microscopy**, organized by University Science Instrumentation Centre, The University of Burdwan; July 26th-29th 2011.