

Faculty Profile

Name : Somaditya Dey
Email ID: somaditya.dey@gmail.com
Designation: Assistant Professor, WBES,
Department: PG Dept. of Zoology



Education Qualification: (Institutional Details)

PhD.: PhD: Pursuing PhD (2012- till date) Under the Supervision of Dr. Chiranjib Pal, Professor, Department of Zoology, West Bengal State University. Thesis topic: HOST PROTECTION AGAINST DRUG -SENSITIVE AND – RESISTANT *Leishmania donovani* INFECTION BY THERAPEUTIC COMBINATION OF *Mycobacterium indicus pranii* (*M.w.*) AND HEAT INDUCED PROMASTIGOTES PROMOTES THE UP REGULATION OF FLT3+ PREDC LEADING TO IL-6 PRODUCING CD11C+ CDC.

M.Sc.: Bidhannagar Govt. College (2010)

B.Sc.: Bidhannagar Govt. College (2008)

Teaching Experience:

1. Barasat Govt. College (Since 20.02.2015-till date)

Specialization: Parasitology & Immunology

Research Experience: Work Place Address: Cellular Immunology & Experimental Therapeutics Laboratory, Department of Zoology, West Bengal State University. PI: Prof. (Dr.) Chiranjib Pal.

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

No. of Conferences/seminars attended: >10 (National+ International)

Books with ISBN No.: NIL

Awards & Achievements:

- **International Travel Support Grant as young scientist (DST Science & Engineering Research Board) for attendance & paper presentation (ORAL) at International Congress of Immunology, 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].**
- **Poster presentation** on, ‘Astrakurkurene, 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 and the best Poster presentation** on, ‘Astrakurkurene, 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.

No. of Publications (National /International Journal): 10

1. 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: 3.902.** [#: Joint 1st author]
2. Suvadip Mallick^{1¶}, Aritri Dutta^{1¶}, Ankur Chaudhuri², Debasri Mukherjee³, **Somaditya Dey**¹, Subhadra Halder^{1,3}, Joydip Ghosh¹, Debarati Mukherjee¹, Sirin Salma Sultana¹, Gunjan Biswas⁴, Tapan Kumar Lai^{4§}, Pradyumna Patra^{1,5}, Indranil Sarkar⁵, Sibani Chakraborty², Bhaskar Saha³, Krishnendu Acharya⁴ and Chiranjib Pal^{1*} (2016). Successful therapy of murine visceral leishmaniasis with astrakurkurone, 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.**
3. 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.**
4. Debarati Mukherjee^{a¶}, Chingakhm Brajakishor Singh^{b¶}, **Somaditya Dey**^a, Supratim Mandal^{a§}, Joydip Ghosh^a, Suvadip Mallick^a, Aabid Hussain^a, Ningombam Swapana^c, Samir A Ross^d and Chiranjib Pal^{a*} (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: 1.30.**
5. Suvadip Mallick^{1#}, **Somaditya Dey**^{1#}, Supratim Mandal^{1¶}, Aritri Dutta¹, Debarati Mukherjee¹, Gunjan Biswas², Soumya Chatterjee², Sanjaya Mallick³, Tapan Kumar Lai⁴, Krishnendu Acharya² and Chiranjib Pal^{1*} (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]
6. Md Yousuf^[a] Debarati Mukherjee^[b] Abhishek Pal^[a] **Somaditya Dey**^[b] Supratim Mandal^[b] Chiranjib Pal^[b] and Susanta Adhikari^[a] (2015). Synthesis and Biological Evaluation of Small Molecule Ferrocenylquinoline as a Potential Antileishmanial Agent. *ChemMedChem*, 10 (3): 546-554. *Joint Correspondence Author. **Impact Factor: 2.97.**
7. **Somaditya Dey**^a, Debarati Mukherjee^a, Sondipon Chakraborty^b, Suvadip Mallick^a, Aritri Dutta^a, Ningombam Swapana^c, Swatilekha Maiti^d, Narayan Ghorai^b, Chingakhm Brajakishor Singh^e and Chiranjib Pal^{a*} (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: 2.15.**
8. 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: 0.48.**
9. Suvadip Mallick[#], Aritri Dutta[#], **Somaditya Dey**[#], Joydip Ghosh, Debarati Mukherjee, Sirin S Sultana, Supratim Mandal, Soumitra Paloi, Somanjana Khatua, Krishnendu Achary, 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: 2.15.** [#: Joint 1st author]
10. Suvadip Mallick, Subhadra Halder, Aritri Dutta, **Somaditya Dey**, Sourav Maiti, Chandrakanta Bandyopadhyay, Bhaskar Saha and Chiranjib Pal* (2013). Chromone linked nitrone 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: 2.7**