

SOMADITYA DEY



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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: Pursuing PhD (2012- till date) Under the Supervision of Dr. Chiranjib Pal, Professor, Department of Zoology, West Bengal State University.; Ph.D. open Pre-submission/ synopsis seminar given on 11.5.17 at WBSU. [Thesis title:** “Host protection against drug -sensitive & –resistant *Leishmania donovani* infection by therapeutic combination of *Mycobacterium indicus pranii* (Mw) & heat induced promastigotes promotes the up regulation of Flt3+ preDC leading to IL-6 producing CD11c+ cDC”]**

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].

'100 students initiative scheme' Travel Support Award from KAMRC, India, sponsored by WHO & DNDi, Geneva for participating and attendance & paper presentation (ORAL) at 6th World Congress on

Leishmaniasis 2017, organized by The WHO Collaborating Centre for Leishmaniasis at the Instituto de Salud Carlos III, Madrid and the Drugs for Neglected Diseases initiative, Geneva , at Toledo, Spain.

'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, 2017**, organized by the ASM & ESCMID, at Boston, USA, on 6-8th September, 2017.

Academic Qualification

EXAMINATION	BOARD/ UNIVERSITY	PERCENT AGE	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
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Significant Recent Publications

1. 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*, (Under 'Submissions Needing Revision': Ms. No.: BMCL-D-17-02004). **Impact Factor: 2.46. [#: Joint 1st author]**
2. 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]**
3. 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 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.**
4. 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.**
5. Debarati Mukherjee^{a¶}, Chingakham 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: 1.52.**
6. 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]**

7. 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. Impact Factor: 2.97. [#: Joint 1st author; *Joint Correspondence Author.]**
8. **Somaditya Dey^a**, Debarati Mukherjee^a, Sondipon Chakraborty^b, Suvadip Mallick^a, Aritri Dutta^a, Ningombam Swapana^c, Swatilekha Maiti^d, Narayan Ghorai^b, Chingakhom Brajakishor Singh^c 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: 1.76.**
9. 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.**
10. 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: 1.76. [#: Joint 1st author]**
11. 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: 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
- **Oral presentation** at National Seminar on “Analytical techniques for drug discovery & development from natural products” being organized by the School of Natural Product Studies in association with the Society for Ethno pharmacology, India (SFE-India) on September 24, 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.
- **Oral presentation** at "Consortium for an integrated research on molecular medicine: Search for novel biopharmaceuticals from natural resources of West Bengal (CIRMM, WBSU)" organized by Dept. of Zoology, WBSU on 8-9th January, 2016.
- **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.
- **Poster presentation** at Symposium on Frontiers in Modern Biology 2013, organized by Dept. of Biological Sciences, IISER-Kolkata; November 9th -10th 2013.

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.
- **National Conference on CME in Immunology**, organized by Dept. of Zoology, West Bengal State University, Barasat & Indian Immunology Society, New Delhi; November 4-5th 2011.