

CURRICULUM VITAE

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GENDER: Female
NATIONALITY: Indian

RESEARCH EXPERIENCE:

Sl. No.	POSITION HELD	FUNDING AGENCY	TITLE OF THESIS/PROJECT	INSTITUTE	TENURE
1.	Senior Research Fellow	University Grants Commission (UGC), Govt. of India	Evaluation of iron homeostasis in Indian Leishmaniasis	Institute of Post Graduate Medical Education and Research (IPGME&R), Kolkata	December 2018-June 2021
2.	Junior Research Fellow	University Grants Commission (UGC), Govt. of India			July 2016- November 2018
3.	Project Trainee	WB-DBT Biotech RISE Program (Dept. Of Biotechnology, Govt. Of West Bengal)	Solution structure of human Cathelicidin peptide LL37 fragment, FR11 in LPS micelle	Department of Biophysics, Bose Institute, Kolkata	July 2015 - September 2015

ACADEMIC RECORDS:

Examination passed	Year of passing	Board/University	Total marks obtained	% of marks	Grade
M.Sc. (Zoology)	2015	University of Calcutta	804	80.4	1 st Class
B.Sc. (Zoology Honours)	2013	Presidency College (University of Calcutta)	610	76.25	1 st Class (10 th Rank)
Higher Secondary/Class XII examination	2010	WBCHSE	348 (Best of four)	87	1 st Division
Madhyamik/ Class X examination	2008	WBBSE	737	92.125	1 st Division

NATIONAL LEVEL EXAMINATIONS:

NAME OF THE QUALIFYING EXAM	YEAR	RANK	PERCENTILE/ SCORE
Joint CSIR-UGC National Eligibility Test (NET) For JRF/ LS	2015 (December)	63 (UGC-JRF)	125.5 (62.75%)
Joint CSIR-UGC National Eligibility Test (NET) For JRF/ LS	2016 (June)	72 (UGC-JRF)	120.0 (60%)
Graduate Aptitude Test For Engineering (GATE)	2016	129	41.33% (GATE Score: 653)

PUBLICATIONS:

1. **Dighal A**, De Sarkar S, Gille L, Chatterjee M. Can the iron content of culture media impact on the leishmanicidal effect of artemisinin? Free Radic Res. 2021; 14:1-14. doi:10.1080/10715762.2021.1939325.

2. **Dighal A**, Mukhopadhyay D, Sengupta R, Moulik S, Mukherjee S, Roy S, Chaudhuri SJ, Das NK, Chatterjee M. Iron trafficking in patients with Indian Post kala-azar dermal leishmaniasis. *PLoS Negl Trop Dis*. 2020;14:e0007991. doi: 10.1371/journal.pntd.0007991.
3. Chatterjee M, Sengupta R, Mukhopadhyay D, Mukherjee S, **Dighal A**, Moulik S, Sengupta S. Immune Responses in Post Kala-azar Dermal Leishmaniasis. *Indian J Dermatol*. 2020;65:452-460. doi: 10.4103/ijd.IJD_258_20.
4. Moulik S, Sengupta R, **Dighal A**, Sardar B, Saha B, Das NK, Chatterjee M. Identification of atypical dermal leishmaniasis resolved by restriction fragment length polymorphism. *Indian J Dermatol Venereol Leprol*. 2020;86:45-49. doi: 10.4103/ijdv.IJDVL_14_18.
5. De Sarkar S, Sarkar D, Sarkar A, **Dighal A**, Chakrabarti S, Staniek K, Gille L, Chatterjee M. The leishmanicidal activity of artemisinin is mediated by cleavage of the endoperoxide bridge and mitochondrial dysfunction. *Parasitology*. 2019;146:511-520. doi: 10.1017/S003118201800183X.
6. De Sarkar S, Sarkar D, Sarkar A, **Dighal A**, Staniek K, Gille L, Chatterjee M. Berberine chloride mediates its antileishmanial activity by inhibiting *Leishmania* mitochondria. *Parasitol Res*. 2019;118:335-345. doi: 10.1007/s00436-018-6157-63.
7. Geroldinger G, Tonner M, Fudickar W, De Sarkar S, **Dighal A**, Monzote L, Staniek K, Linker T, Chatterjee M, Gille L. Activation of Anthracene Endoperoxides in *Leishmania* and Impairment of Mitochondrial Functions. *Molecules*. 2018;23:1680. doi: 10.3390/molecules23071680.

LABORATORY EXPERIENCE:

1. **DNA analysis:** DNA isolation, Agarose gel electrophoresis, Quantitation of nucleic acids, Polymerase Chain reaction (PCR), Restriction digestion, PCR-RFLP (Restriction Fragment Length Polymorphism), Real time PCR, Droplet digital PCR
2. **Cell/Tissue technology:** RNA isolation, Immunohistochemistry, Microscopy, Immunofluorescence, Parasite and cell culture
3. **Protein analysis:** Protein isolation, SDS-PAGE, Western blotting
4. **Analytical techniques:** ELISA, Flow cytometry, Spectrophotometry, Chromatography
5. **Bioinformatics:** Basic knowledge of genome and protein browsers and databases

POSTER/ORAL PRESENTATIONS:

- i) **Aishwarya Dighal**, Sritama De Sarkar, Mitali Chatterjee. “**Impact of iron and reducing agents in culture media on the Leishmanicidal effect of Artemisinin**” at Foundation Day, 2021 organized by IPGME&R, Kolkata 15th January, 2020 (**Oral**)
- ii) **Aishwarya Dighal**, Sritama De Sarkar, Mitali Chatterjee “**Can the concentration of iron in culture media impact on the leishmanicidal effect of Artemisinin?**” at Immunocon, 2019 organized by Indian Immunology Society (IIS), 14th -16th November, 2019 (**Poster**)
- iii) **Aishwarya Dighal**, Debanjan Mukhopadhyay, Srija Moulik, Ritika Sengupta, Shibabrata Mukherjee, Susmita Roy, Surya J Choudhuri, Nilay K Das, Uttara Chatterjee and Mitali Chatterjee “**Altered host iron homeostasis in Indian Post Kala-azar Dermal Leishmaniasis (PKDL)**” at Amity University organized by Society of Biological Chemists (SBC) Kolkata chapter, 8th September, 2018 (**Oral**)
- iv) **Aishwarya Dighal**, Debanjan Mukhopadhyay, Srija Moulik, Ritika Sengupta, Shibabrata Mukherjee, Susmita Roy, Surya J Choudhuri, Nilay K Das, Uttara Chatterjee and Mitali Chatterjee “**Altered host iron homeostasis in Indian Post Kala-azar Dermal Leishmaniasis (PKDL)**” at International conference on innovations for the Elimination and Control of Visceral Leishmaniasis (IEC-VL) 2018, New Delhi, India; 28-30th November, 2018 (**Poster**), **2nd Prize**.

WORKSHOP/SPECIAL TRAINING:

- i) Active participation in **RT-PCR testing of COVID-19 samples in VRDL, Department of Microbiology, IPGME&R, Kolkata (May-September, 2020).**
- ii) Participated in the **National Seminar on Research Updates, 2014**, organized by Department of Zoology Sponsored by **UGC-SAP DRS-II Programme.**
- iii) **Research Workshop on Diagnostic & Therapeutic Immunology.** In Association with Indian Immunology Society & Talwar Research Foundation.

AWARDS:

- i) **Best Case Report Award 2020** awarded by Indian Journal of Dermatolology, Venereology and Leprology (IJDVL): Moulik S, Sengupta R, **Dighal A**, Sardar B, Saha B, Das NK, Chatterjee M. Identification of atypical dermal leishmaniasis resolved by restriction fragment length polymorphism. Indian J Dermatol Venereol Leprol. 2020;86:45-49. doi: 10.4103/ijdv.IJDVL_14_18.
- ii) **Travel bursary 2019** awarded by Immunocon, 2019 organizing committee, Indian Immunology Society (IIS)
- iii) **CSIR travel grant** -June 2019
- iv) Recipient of the **Post-Graduate Indira Gandhi Scholarship for Single Girl Child** sponsored by **UGC for the session 2013-2015.**
- v) Recipient of award from **Prof. Sivatosh Mookherjee Memorial Fund, Presidency College for securing the highest marks in Zoology Honours B.Sc (Part I, Part II).**
- vi) Recipient of **National Scheme of Scholarship for College & University Students** sponsored by **Government of India, Ministry of Human Resource Development, Department of Higher Education for the session 2010-2015** (based on the results of Higher Secondary Examination).

ORGANIZATIONS:

- i) Life member of **Indian Immunology Society**
- ii) Associate Member of **The Zoological Society, Kolkata.**

EXTRACURRICULAR ACTIVITIES:

- iii) Participated in **Zooquest** in 2013, 2014& 2015 arranged by The Zoological Society, Kolkata in association with Department of Zoology, University of Calcutta and West Bengal Biodiversity Board. **Winner of Zooquest in 2015 & 1st Runner up in 2013.**
- iv) Special interest in Music. Undergoing formal training in **Rabindrasangeet**. Completed 4 years certified course in Rabindrasangeet. **Participated in various music programmes & organized various events at College & University.**

DECLARATION:

I hereby confirm that the details furnished above are true to the best of my knowledge and belief.

Aishwarya Dighal