

# GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

1. Name: DR. SUDIPTA CHAKRABORTY
2. Designation: Assistant Professor in Zoology
3. Department: ZOOLOGY
4. Highest academic degree: M.Sc., Ph.D.
5. Specialization: Parasitology and Immunobiology
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8. Date of joining to the service: 28.11.2006



9. Colleges served:

	<i>Name of the College</i>	<i>Affiliated to</i>	<i>From</i>	<i>Till</i>
1	Darjeeling Government College, Darjeeling	North Bengal University	28.11.2006	10.06.2010
2	Maulana Azad College, Kolkata	University of Calcutta	11.06.2010	27.06.2016
3	Government General Degree College at Keshiary, Paschim Medinipur	Vidyasagar University	28.07.2016	till date

10. Area of research interest:
- 1 Immunotoxicology, aquatic toxicology
  - 2 Avian parasitology

11. Publications:

Paper/Research article		Book/book-chapter		Citation	h-index	i-index
<i>International</i>	<i>National</i>	<i>International</i>	<i>National</i>			
12	2	1	1	231	8	8

12. Awards/achievement of special mention:

- 1 Qualified CSIR-UGC NET (December, 2003; June, 2004)
- 2 Qualified GATE, 2004 (93.76 percentile score)
- 3 Worked as a Research Assistant in a DRDO funded project entitled: "Early detection of neurovascular damage due to *Plasmodium falciparum* and *Plasmodium vivax* and research for preventive and curative formulations of herbal origin" from 2005-2006.

13. Research project/extramural grant mobilized:

	<i>Funding agency/body</i>	<i>Amount(Rs.)</i>	<i>Name of the research project</i>	<i>From</i>	<i>Till</i>
1	UGC*	2,20,000.00	Environmental stress analyses in invertebrate model		

*\* Unable to run the project till date as Govt. Gen. Degree College Keshiary does not have UGC 12 (B) sanction.*

14. Patent (International/National)

1 Nil

#### 15. Editorial board member/ Reviewer of any journal/literary body:

- 1 Reviewer: *Ecological Indicators* (Elsevier)
- 2 Reviewer: *Comparative Biochemistry and Physiology* (Elsevier)
- 3 Reviewer: *Energy* (Springer)
- 4 Reviewer: *Biomarkers* (Taylor-Francis)
- 5 Reviewer: *Proceedings of the National Academy of Science:India B (Biological Sciences)* (Springer)
- 6 Member of the Advisory Board, *International Journal of Zoology Research* since 2013
- 7 Assistant Editor, *MAC Journal of Basic and Applied Sciences* (2013-2016) (ISSN 2347-5366).

#### 16. Member of learned society:

- 1 Life Member of the Zoological Society of Kolkata, 35 Ballygunge Circular Road, Kolkata 700019.
- 2 Member of the Animal Ethical Committee, Post Graduate Department of Zoology, Maulana Azad College, Kolkata 700013.

#### 17. List of full length publications (selected few):

- 1 Dey, A., Mallick, M., Manna, L., Mahapatra, E., Naskar, P., Bhattacharjee, P., Bhuiya, M., Mitra, S., Sarkar, S., Manna, S., Ray, S., and **Chakraborty, S.** (2023). What *Corvus splendens* offers as a host: Tolerance or controlled aggression? *Proceedings of the Zoological Society* 76, 412–420. <https://doi.org/10.1007/s12595-023-00495-0> (Springer; Published online: 21.06.2023; ISSN: 0974-6919; as corresponding author)
- 2 **Chakraborty, S.**, Ray, M. and Ray, S. (2021). Bivalve haemocyte adhesion, aggregation and phagocytosis: A tool to reckon arsenic induced threats to freshwater ecosystem. *Fish & Shellfish Immunology* 114:229-237. <https://doi.org/10.1016/j.fsi.2021.05.008> (Elsevier; **IF: 4.7**; Citation: 07)
- 3 **Chakraborty, S.** Bivalve haemocyte based inexpensive biomarkers in aquatic environment monitoring: scopes and challenges. *International Research Journal of Basic and Applied Sciences* 4 (1), 36-51.
- 4 Mahapatra, E., Dasgupta, D., Bhattacharya, N., Mitra, S., Banerjee, D., Goswami, S., Ghosh, N., Dey, A. and **Chakraborty, S.** (2017). Sustaining immunity during starvation in bivalve mollusc: A costly affair. *Tissue and Cell*, 49 (2), 239-248. <https://doi.org/10.1016/j.tice.2017.02.005> (Elsevier; ISSN: 0040-8166; **IF: 2.6**; as corresponding author; Citation: 19)
- 5 **Chakraborty, S.**, Ray, M. and Ray, S. (2013). Cell to organ: Physiological, immunotoxic and oxidative stress responses of *Lamellidens marginalis* to inorganic arsenite. *Ecotoxicology and Environmental Safety* 94:153-163. <https://doi.org/10.1016/j.ecoenv.2013.04.012> (Elsevier; ISSN: 0147-6513; **IF: 6.8**; Citation: 32)
- 6 **Chakraborty, S.**, Ray, M. and Ray, S. (2012). Arsenic toxicity: a heart-breaking saga of a freshwater bivalve. *Tissue and Cell* 44(3):151-155. <https://doi.org/10.1016/j.tice.2012.01.004> (Elsevier; ISSN: 0040-8166; **IF: 2.6**; Citation: 18)
- 7 Ray, M., Ray, S., **Chakraborty, S.**, Mukherjee, S. (2011). Immunotoxicity of environmental chemicals in the pearl forming mussel of India- a review. In, *Mussels: Anatomy, Habitat and Environmental Impact*, pp. 429-440. (Citation: 11)
- 8 **Chakraborty, S.**, Ray, M. and Ray, S. (2010). Toxicity of sodium arsenite in the gill of an economically important mollusc of India. *Fish Shellfish Immunology*, 29: 136-148. <https://doi.org/10.1016/j.fsi.2010.02.025> (Elsevier; **IF: 4.7**; Citation: 69)
- 9 **Chakraborty, S.** and Ray, S. (2009). Nuclear morphology and lysosomal stability of molluscan hemocyte as possible biomarkers of arsenic toxicity. *Clean- Soil Air Water*, 37 (10): 669-675. <https://doi.org/10.1002/clen.200900173> (Willie-Verlag, Germany; **IF: 1.7**; Citation: 24)
- 10 **Chakraborty, S.**, Ray, M. and Ray, S. (2009). Evaluation of phagocytic activity and nitric oxide generation by molluscan haemocytes as biomarkers of inorganic arsenic exposure. *Biomarkers* 14(8): 539-546. <https://doi.org/10.3109/13547500903240473> (Taylor & Francis Informaworld, UK; **IF: 2.6**; Citation: 19)
- 11 **Chakraborty, S.**, Ray, M. and Ray, S. (2008). Sodium arsenite induced alteration of hemocyte density of *Lamellidens marginalis* – an edible mollusk from India. *Clean- Soil Air Water*, 36(2): 195-200. <https://doi.org/10.1002/clen.200600032> (Willie-Verlag, Germany; **IF: 1.7**; Citation: 31)

#### 18. List of abstracts (selected few):

- 1 **Chakraborty, S.**, Dey, A., Mallick, M., Manna, L., Mahapatra, E. (2019). An investigation on the parasitic life hosted by the scavenger bird *Corvus splendens*. In, National Level Seminar on "Frontiers in Biological Sciences: Chapter III" organized by St. Xavier's College(Autonomous), Kolkata 700016 in collaboration with IICB, Kolkata and Presidency University, Kolkata, held on September 21-22, 2019. (Poster presentation)

- 2 Chakraborty, S. (2019). Prospect of analysing molluscan biomarkers for the biomonitoring of the aquatic ecosystems. In West Bengal Biodiversity Board (Dept. of Environment), Govt. of West Bengal sponsored National Level Seminar on Local Biodiversity: Documentation and Conservation, organized by Dept. of Botany, Ramnagar College, Purba Medinipur, held on 16th March, 2019. (Poster presentation)
- 3 Dey, A., Mallick, M., Manna, L., Bhattacharya, P., Mahapatra, E., Naskar, P., Bhuiya, M., Mitra, S., Sarkar, S., Manna, S. and **Chakraborty, S.** (2016). A comparative study of host-parasite symphony in a granivore and a scavenger bird from India. In UGC sponsored National Level Seminar on "From Molecules to Ecosystem- A Zoological Perspective" organized by Department of Zoology, Ramkrishna Missan Vivekananda Centenary College, Rahara, Kolkata 700118 in collaboration with Department of Zoology, West Bengal State University, Barasat, Kolkata 700126, held on September 22, 2016. (Poster presentation as corresponding author)
- 4 Mahapatra, E., Dasgupta, D., Bhattacharya, N., Mitra, S., Banerjee, D., Goswami, S. and **Chakraborty, S.** (2015). Impact of starvation on cellular immunity and tissue structure: prospecting a molluscan biomarker. In One Day International Seminar on "Current Thoughts in Cell Sciences" held on 8th November, 2015 in the CRNN, University of Calcutta, funded by Department of Science and Technology, Govt. of India, pp.38-39. (Poster presentation). (As corresponding author)
- 5 **Chakraborty, S.** and Ray, S. (2013). Quantitation of immunotoxicity in invertebrates and search for cellular biomarkers of environmental toxicity. In Spring Talk @ CU Zoology, organized by Department of Zoology, University of Calcutta, held on March 23, 2013, pg. 20. (Oral presentation)
- 6 **Chakraborty, S.**, Mukherjee, S., Bhunia, N.S., Banerjee, P., Chattopadhyay, S., Gupta, S.D., Barua, I., Dube, S.N. and Ray, S. Analyses of the immunomodulatory and therapeutic efficacy of an Indian antimalarial herbal in murine model. In EMBO Global Exchange Lecture Course on "Molecular and Evolutionary Genetics of Malaria" held at the National Institute of Malaria Research (NIMR), New Delhi. pg.71, 2010.

#### 19. List of Seminar/Workshop/Conference/Symposium attended (selected few):

- 1 Participated in National Level Seminar on "Frontiers in Biological Sciences: Chapter III" organized by St. Xavier's College (Autonomous), Kolkata 700016 in collaboration with IICB, Kolkata and Presidency University, Kolkata, held on September 21-22, 2019.
- 2 Participated in the UGC sponsored Refresher Course entitled "Recent Trends in Life Science" organized by the Jadavpur University, Kolkata, from January 2-21, 2017.
- 3 Participated in UGC sponsored National Level Seminar on "From Molecules to Ecosystem- A Zoological Perspective" organized by Department of Zoology, Ramkrishna Missan Vivekananda Centenary College, Rahara, Kolkata 700118 in collaboration with Department of Zoology, West Bengal State University, Barasat, Kolkata 700126, held on September 22, 2016.
- 4 Participated in One Day International Seminar on "Current Thoughts in Cell Sciences" in the CRNN, University of Calcutta, funded by Department of Science and Technology, Govt. of India, held on 8th November, 2015.
- 5 Participated in Spring Talk @ CU Zoology, organized by Department of Zoology, University of Calcutta, held on March 23, 2013.
- 6 Participated in a UGC sponsored National Workshop on "Understanding Biodiversity: Assessment, Analysis and Conservation" organized by the Department of Zoology, Maulana Azad College, Kolkata 700013, held on February 25-26, 2011.
- 7 Participated in the 1st National Workshop for College Teachers on Application of Flow cytometry, Cell Sorting & Imaging in Biological Research, organized by Centre for Modern Biology & Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, held from December 18-24, 2011.

#### 20. Special mention (if any):

- 1 Acting as the Officer-in-Charge, Government General Degree College at Keshiary since September 20, 2017.
- 2 Teaching experience: 10 years at PG level; 17.5 years at UG level.
- 3 Member of the PGEC, Post Graduate Department of Zoology, Maulana Azad College, Kolkata-13 (2010-2016)
- 4 Convener, PGEC, Post Graduate Department of Zoology, Maulana Azad College, Kolkata -13 (2015-2016).
- 5 Invited talk: In Proceedings of UGC Sponsored National Seminar "Prospects of Biotechnology in Rural Bengal" organized by School of Life Sciences, Uluberia College held on January 17-18, 2014.
- 6 Resource person in the DBT funded workshop on "Assay on Exfoliated Cell Micronucleus and other Nuclear Anomalies as Biomarker for Chromosome Breakage and Nitotic Interference", organized by the Department of Zoology, Maulana Azad College, Kolkata -13 under DBT -Star College Programme, held on Nov-8-10, 2013.
- 7 Resource person in the DBT funded workshop on "Technique to Explore the Frontier of Modern Biological Sciences", organized by the Department of Zoology, Maulana Azad College, Kolkata -13 under DBT -Star College Programme, held on Nov-8-10, 2011.