

PROF. PRIYASANKAR CHAUDHURI (RETD. ON 31.12.2021)



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Academic Qualification: M.Sc. (Zoology)/ Calcutta University, Ph.D. (Zoology)/ Calcutta University
Present Designation: Professor (Retd. on 31.12.2021)
Topics Taught: Endocrinology, Reproductive Physiology, Invertebrate Neuroendocrinology, Soil Zoology, Evolution, Animal Physiology, Functional anatomy of Chordates

PUBLICATIONS (YEAR-WISE)

1. **Chaudhuri P. S.** and B. Debbarma (2025) Earthworms in soil carbon conservation under forest, pasture and rubber plantations. *J. Environ. Biol.*, 46(6), 811 -819
2. **Chaudhuri P. S.**, Chattopadhyay G. N, and Kale R. D. (2025) Understanding Earthworm Biology for Better Recycling of Organic Wastes Through Vermicomposting. In: *Perspectives on Waste Recycling in Indian Agriculture* (Eds. Gunindra Nath Chattopadhyay and Gautam Kumar Ghosh), Cambridge Scholar Publishing, Lady Stephenson Library, Newcastle upon Tyne, NE6 2PA, UK, ISBN: 978-1-0364-1219-7 pp 303-325.
3. **Chaudhuri P. S.** and Animesh Dey (2025) Copulatory behavior, copulation process and cocoon biology in Earthworms –A review. *J. Environ. Biol.*, 46(2) ,153-166
4. **Chaudhuri P. S.** (2025) Stress effects and neurosecretion in Earthworms: A Review, *GSC Biological and Pharmaceutical Science*, 30(01),114 -123
5. **Chaudhuri P. S.** (2024) Millet: Nutritional Properties, Health Benefits, and its Organic Farming for sustainable Agriculture. In: *New Horizons in Higher Education and Research Multidisciplinary Interfaces*, Vol. 01 (Eds. Saptarshi Mitra, Ajay Krishna Saha & Swapan Majumder), Akansha Publishing House, New Delhi, India, ISBN: 978-93-48001-65-8 pp 397-409

6. Bhattachajee S. and **Chaudhuri P. S.** (2024): Ecological assessment of Earthworm communities in Heavia Plantations of Different Age Groups in West Tripura, India. *Innovative Farming* (1):10-20
7. Animesh Dey and **P. S. Chaudhuri** (2024) Impact of Rubber Leaf Litter Vermicompost on Earthworm Population and Pineapple (*Ananas comosus*) Productivity in West Tripura, India. In: *Research Advances and Challenges in Agricultural Sciences*, Volume: 09 (Ed. Muhammad Shehzad), BP International, London, UK, ISBN: 978-81-973514-5-7 pp 01-19.
8. Sourabh Chakraborty, Biplab Debbarma and **P. S. Chaudhuri** (2023) Ecology and Diversity of Earthworms in Different Land-Use Systems of North-East India; A Review. *Asian Journal of Conservation Biology* 12 (2): 268 – 287
9. **P. S. Chaudhuri** (2023) Basic Histological Techniques (Micro Techniques) for Staining of Animal Tissue. *Uttar Pradesh Journal of Zoology*, **44**, 225-230.
10. Subhalaxmi Bhattacharjee and **P. S. Chaudhuri** (2022) Cocoon Biology of Sixteen Different Species of Indian Earthworms. *Indian Journal of Biological Sciences* **26**, 48-66.
11. **P. S. Chaudhuri** (2022) Neurosecretion in oligochaetes - a less studied subject in invertebrate research. *Uttar Pradesh Journal of Zoology* **43**(6), 11-18.
12. **P. S. Chaudhuri** and Ruma Datta (2021) Neuroendocrine control of cocoon production in native earthworm *Perionyx ceylanensis*. *Journal of Environmental Biology* **42**: 930- 937.
13. **P. S. Chaudhuri** and S.K.S. Jamatia (2021) Impact of Rubber Leaf vermicompost on Tea (*Camellia sinensis*) yield and earthworm population in West Tripura (India): *Agricultural Science Digest* **41**(2), 274-281.
14. S. Debnath and **P. S. Chaudhuri** (2020) Growth and Reproduction of *Perionyx excavatus* (Perrier) during Vermicomposting of Different Plant Residues. *Nature Environment and Pollution Technology* **19** , 1937-1943.
15. Biplab Debbarma and **P. S. Chaudhuri** (2020) Earthworm casting activity and their nutrient contribution to the soils of pasture, natural forest and rubber plantation in Tripura, India, **41**(21)11-22.
16. **P. S. Chaudhuri** and Ruma Datta (2020) Studies on cocoons of Three Epigeic Earthworm Species *Perionyx excavatus* (Perrier), *Perionyx ceylanensis* (Michaelsen) and *Eudrilus eugeniae* (Kinberg) with SEM Observations. *Proc. Zool. Soc.* **73**(4) 430-440.
17. Sourabh Chakraborty, Niladri Paul, and **P. S. Chaudhuri** (2020) Earthworm casting activities under bamboo plantations of West Tripura, India and their impact on soil physicochemical properties. *Current Science* 119(7): 1169-1177.
18. Shilpa Dhar and **P. S. Chaudhuri** (2020) Earthworm community characteristics in the soils of two terrestrial land use systems (Banana and Flower Plantations) in West Tripura (India). *Uttar Pradesh Journal of Zoology*, 41(9): 40-54.
19. Dipanwita Banik, **P. S. Chaudhuri**, and Anurag Bhattacharjee (2020) Cytomorphological changes in the cerebral and ventral ganglionic neurosecretory cells during copulation in epigeic earthworms. *European Journal of Biological Research*, 10(3): 207-2016.

20. Ruma Datta and **P. S. Chaudhuri** (2020) Vermiculture of Native Earthworm *Perionyx ceulanensis* in different experimental diets. Uttar Pradesh Journal of Zoology, 41(9)116-122.
21. **P. S. Chaudhuri** and Susmita Debnath (2020) Growth and reproductive biology of earthworms in Organic waste Breakdown Under the Indian Conditions. In: Sartaj Ahmad Bhat, Adarsh Pal Vig, Fusheng Li and Balasubramani Ravindran Editors: Earthworm Assisted Remediation of Effluents and Wastes, Springer Nature, ISBN: 978-981-15- 4522-1: pp 179-193.
22. Susmita Debnath and **P. S. Chaudhuri** (2020) Management of Invasive Weeds and leaf litter through Vermicomposting (*Perionyx excavatus*). Editors: Tilak Saha and Biprakash Kumar Tiwary; Recent trends in Biotechnology: Microbes, Environment and Human Welfare. NOVA Publishers, New York (ISBN: 978-1-53617-945- 3), pp 297-314.
23. Anurag Bhattacharjee and **P. S. Chaudhuri** (2020) Effects of posterior amputation on the cerebral neurosecretory cells of Indian earthworm, *Lampito mauritii* (Kinberg). Neurology and Neuroscience Reports Vol 3: 1-4
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25. Anurag Bhattacharjee and **P. S. Chaudhuri** (2020) Effects of dehydration and subsequent hydration stress on the cerebral neurosecretory cells of *Eudrilus eugeniae* (Kinberg, 1867). GSC Biological and Pharmacological Sciences: 11(2), 053-060.
26. Susmita Debnath and **P. S. Chaudhuri** (2020) Cocoon Biology of Earthworms of Waste Deposit Sites of Tripura (India). Uttar Pradesh Journal of Zoology 41(2): 32-46.
27. S.K.S. Jamatia and **P. S. Chaudhuri** (2019) Effects of Tea leaf-based diets on the growth and reproduction in two tropical earthworm species (*Pontoscolex corethrurus* and *Drawida assamensis*). Applied Biological Research 21(3): 211-220.
28. Shilpa Dhar and **P. S. Chaudhuri** (2020) Earthworm Communities in Paddy (*Oryza sativa*) Fields of West Tripura (India). Proc. Zool. Soc. (Springer) <https://doi.org/10.1007/s12595-019-00313-6>.
29. Dipanwita Banik and **P. S. Chaudhuri** (2019) Histogenesis of neurosecretory system in the nerve ring of *Eudrilus eugeniae* during anterior regeneration. Uttar Pradesh Journal of Zoology, 40(3), 96-104.
30. Shilpa Dhar and **P. S. Chaudhuri** (2019) Effect of Earthworm, *Glyphidrilus* sp. on soil Physico-Chemical Properties, Growth and Yield of Paddy - An "In-Situ" Pot Culture Experiment. World Journal of Agricultural Sciences 15(4): 235-243.
31. Biplob Debbarma and **P. S. Chaudhuri** (2019) Earthworm communities under Pasture Ecosystems in Tripura, India. International Journal of Ecology and Environmental Sciences 45(2): 179-190.

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33. **P. S. Chaudhuri** and Saurabh Chakraborty (2019) Bamboo (*Bambusa polymorpha*) leaf litter as a vermiculture substrate for earthworms, *Pontoscolex corethrurus* (Muller) and *Drawida assamensis* Stephenson. *Science & Culture* 85(3-4): 105-112.
34. Susmita Debnath and **P. S. Chaudhuri** (2019) Earthworm communities in the waste deposit sites (cow dung heaps and municipal solid wastes) of West Tripura, India. *International Journal of Ecology and Environmental Sciences* 45(1): 1-14.
35. Shilpa Dhar and **P. S. Chaudhuri** (2018) Earthworm Communities in Banana (*Musa paradisiaca*) and Paddy (*Oryza sativa*) Plantations of West Tripura, India. In: *Biodiversity Conservation: Strategies and Applications* (Editor, Prof. G.S. Solanki), South Eastern Book Agencies, Guwahati, p 331-346.
36. **P. S. Chaudhuri** (2018) Earthworm Technology - A Promising Tool for Second Green Revolution. In: *Advances in Waste Management*. (Edn. A.S. Kalamdhad, J.Singh and K. Dhamodharan). Springer Nature, Singapore, ISBN 978-981-13-0214- 5, doi.org/10.1007/978-981-13-0215-2) pp 1-16.
37. **P. S. Chaudhuri** (2018) Kitchen Waste-Routine Home Waste: A good source of organic manure. In: *ORGANIC MANURE: Sources, Preparation and Usage in Farming Lands*. (Editor: Prof S. M. Singh), Siya Publishing House, N. Delhi, pp 47-51. (ISBN:987-93-87387-01-0)
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39. **P. S. Chaudhuri** (2017) Earthworm Technology- A tool for Sustainable Agriculture. The Third International Conference on Bioresource and Stress Management (November 8-11), Jaipur, Souvenir book, ISBN 978-93-84553-04-3, pp 94-99.
40. Debnath, **P. S. Chaudhuri**, P.P. Chakraborty and S.K. Sil (2017) Nutrient content of native earthworm, *Eutyphoeus gammiei* (Beddard) of Tripura (India). *International Journal of Pharmaceutical Sciences and Research*, Vol. 8(11), 4832-4838
41. Dipanwita Banik and **P. S. Chaudhuri** (2017) Regeneration ability in seventeen topsoil and subsoil earthworm species. *Journal of Environmental Biology* 28(3), 393-399.
42. S.K.S. Jamatia and **P. S. Chaudhuri** (2017) Earthworm community structure under tea plantation (*Camellia sinensis*) of Tripura (India). *Tropical Ecology* 58(1): 105-113.
43. Dipanwita Banik and **P. S. Chaudhuri** (2016) Neuroendocrine control of posterior regeneration in Tropical Earthworm, *Eudrilus eugeniae* (Kinberg). *Journal of Life Sciences* 10, 289-297.
44. S.K.S. Jamatia and **P. S. Chaudhuri** (2016) Earthworm Population of Tea Plantation (*Camellia sinensis*) in Tripura (India). *The Global Journal of Life Science and Research* 2(1),173-185

45. **P. S. Chaudhuri**, T.K. Paul, Animesh Dey (2016) Effect of rubber leaf litter vermicompost on earthworm population and yield of Pineapple (*Ananas comosus*) in West Tripura, India. Int. J. Recycl. Org. Waste. Agricult (Springer). DOI 10.1007/s40093- 016-0120-z.
46. Animesh Dey and **P. S. Chaudhuri** (2016) Species richness. Community organization, and spatiotemporal distribution of Earthworm in the Pineapple Agroecosystem of Tripura, India. International Journal of Ecology Vol 2016, <http://dx.doi.org/10.1155/2016/3190182>, page 1-19.
47. Saurabh Chakraborty and **P. S. Chaudhuri** (2017) Earthworm communities in the bamboo plantations of West Tripura. Proceedings of Zoological Societies (Springer), vol 70(2) pp105-118.
48. **Chaudhuri P. S.** and Dipanwita Banik (2015) Cytology and histology of the cerebral neurosecretory systems in some tropical earthworm species. Cytology and Histology 6,1-7(doi:10.4172/2157-7099,1000367).
49. **P. S. Chaudhuri**, 2015. How an exotic earthworm appear in the rubber plantation of Tripura? Vermico 8(2): 3-4.
50. G. Bhattacharjee, **P. S. Chaudhuri** and S. Bhattacharjee (2014) Reproductive strategies of some tropical earthworm species. Science & Culture 80 (11-12):339-346.
51. S. Bhattacharjee, A. Dey and **P. S. Chaudhuri** (2014) Growth and reproduction of *Pontoscolex corethrurus* in the mineral soils of different age groups of rubber (*Hevea brasiliensis*) under laboratory conditions. Annals of Biological Research 5(7): 1-9.
52. R. Ghosh, M. Sarkar, A. Datta, G. Bhattacharjee and **P. S. Chaudhuri** (2014) Preliminary studies on analysis of coelomic fluid of giant octochaetid earthworm, *Eutyphoeus gammiei*. International Journal of Biological & Pharmaceutical Research 5(12): 983-987.
53. S. Nath and **P. S. Chaudhuri** (2014) Growth and reproduction of *Pontoscolex corethrurus* (Muller) with different experimental diets. Tropical Ecology 55(3).
54. A. Dey and **P. S. Chaudhuri** (2014) Earthworm community structure of pineapple (*Ananas comosus*) plantations under monoculture and mixed culture in West Tripura, India. Tropical Ecology 55(1) 1-17.
55. Dey and **P. S. Chaudhuri** (2014) Application of species accumulation curve, non-parametric richness estimators and rarefaction curves for sampling optimization, quantification and comparison of earthworm species richness in the pineapple and mixed fruit plantations of west Tripura. In: Biology and Ecology of Tropical Earthworms (PS Chaudhuri and SM Singh), Discovery Publishing House Pvt. Ltd, New Delhi. pp. 108- 124.
56. S. Nath and **P. S. Chaudhuri** (2014) Biological activities of earthworm species of rubber plantation under laboratory conditions. In: Biology and Ecology of Tropical Earthworms (PS Chaudhuri and SM Singh), Discovery Publishing House Pvt. Ltd, New Delhi. pp. 162-171.
57. A. Dey and **P. S. Chaudhuri** (2013) Density, diversity and distribution of earthworms in pineapple plantation (*Ananas comosus*) plots of different ages in West Tripura, India. In:

Climate Change and Biodiversity (Eds. PK Bharti, A Chauhan), Discovery Publishing House Pvt. Ltd, New Delhi, pp 61-80

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111. **P. S. Chaudhuri** and D.K. Nanda (1990) Cytochemical studies on the ventral nerve cord neurosecretory cells earthworm, *Metaphire peguana* (Rosa, 1890). Acta Biologica Cracoveinsia 321, 61-72.

112. **P. S. Chaudhuri**, D.K. Nanda and R. Debnath (1990) Cytomorphic studies on the neurosecretory cells in the central nervous system of the Indian Horseshoe crab *Carcinoscorpius rotundicauda* (Latriella). Functional and Development Morphology (Academia publication) I, 13-17.
113. **P. S. Chaudhuri** and D.K. Nanda (1989) Effects of whole-body X-irradiation on the neurosecretory system of ventral nerve chain of the earthworm, *Metaphire peguana* (Rosa 1890) J. Curr. Biosci. B 6, 20-25.
114. D.K. Nanda and **P. S. Chaudhuri** (1988) Effects of thermal stress on the ventral nerve cord neurosecretory system of tropical earthworm, *Metaphire peguana*. J. Curr. Biosci. 5, 67-71.
115. **P. S. Chaudhuri** and D.K. Nanda (1985) Effects of salt water submergence on the ventral nerve cord-neurosecretory system of earthworm, *Metaphire peguana*. Proc. 1st Nat. Symp. Comp. End. Inver. pp. 1-4.
116. D.K. Nanda, **P. S. Chaudhuri** and A.K. Bej (1984) Effects of desiccation on the ventral nerve cord-neurosecretory system of tropical earthworm, *Metaphire peguana*. Proc. Indian Acad. Sci. (Anim. Sci.) 93, 43-47.
117. D.K. Nanda and **P. S. Chaudhuri** (1983) Regeneration of the neurosecretory system of the nerve ring earthworm *Metaphire peguana*. Acta Biologica Cracoviensia 25, 63-67.
118. D.K. Nanda, L.K. Bhaumik and **P. S. Chaudhuri** (1984) Histological study of neurosecretion in the larval brain of *Anomis sabulifera*. J. Zool. Soc. India 36, 107-116.
119. **S. Chaudhuri** and D.K. Nanda (1982) The effects of starvation on the ventral nerve cord neurosecretory system of earthworm. *Metaphire peguana*. Acta Biologica Cracoviensia 26, 51-55.
120. D. K. Nanda and **P. S. Chaudhuri** (1982) The effect of cephalic trans-section on the micromorphological changes in the ventral nerve cord-neurosecretory system of earthworm, *Metaphire peguana* during anterior regeneration. Proc. Indian Acad Sci. (Anim Sci.) 91,381-389.
121. D. K. Nanda and **P. S. Chaudhuri** (1982) Studies on the cytomorphology of the ventral nerve cord of the earthworm, *Pheretima posthuma* with special reference of neurosecretion. J. Zool. Soc. India, 34, 36-45.

SEMINAR/ CONFERENCE/ WORKSHOP/ REFRESER/ ORIENTATION

A. PAPERS PRESENTED ABROAD:

- Participated and acted as the moderator and Keynote speaker at the 10th International Conference on Agriculture & Horticulture during 2-4 October 2017 in London, UK.
- Participated as Invited Speaker in the Organic Farming Congress on 3rd October 2017 in London, UK.

- Presented paper (Invited talk) at the second International Symposium on Biological and Agricultural Sciences, Shanghai, China, 22nd -26th July 2016
- Presented paper at the 7th International Symposium on Earthworm Ecology, Cardiff, Wales, 2002
- Presented paper at the 6th International Symposium on Earthworm Ecology, Vigo, Spain, 1998
- Presented paper in the 4th International Symposium on Earthworm Ecology, Avignon, France, 1990

B. PAPERS PRESENTED IN INDIA:

- Presented Keynote speech at the International Conference on Water, Energy, and Biodiversity for Sustainable Development (December 12-14, 2020) organized by the Institution of Engineers (India), Agartala, Tripura.
- Participated in the INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN ANIMAL SCIENCES (ICRAAS-2019, 6th-8th November) and delivered a plenary lecture and also served as Chairperson in the conference held at PACHUNGA UNIVERSITY COLLEGE, AIZAWL.
- Participated as a speaker in the International Conference (INTZOOCONF 2018) in Zoology, Calcutta University during 1st - 3rd February 2018.
- Delivered Lead Lecture at the 3rd International Conference on Bioresource and Stress Management (8-11th November 2017), at Jaipur, Rajasthan
- Participated (as Chairperson in a session, oral presentation) in the International Conference on Waste Management (Recycle, April 1 & 2, 2016) by the Department of Civil Engineering, IIT (Guwahati), Assam.
- Symposium on Integrative Physiology & Comparative Endocrinology along with Brain- Storming session on Geno-Eco-Neuro-endocrinology (Invited Lecture), Department of Zoology, BHU, Varanasi (12th -14th February) 2016.
- National Seminar on Natural Resources, Diversity and Sustainable Development, North Bengal University (11-12 December, 2015) (Lead Lecture).
- Tropical Ecology Congress 10-12 December, 2014, School of Environmental Science, JNU, New Delhi.
- National Seminar on “Water & Biodiversity”, (2013), Department of Botany, Tripura University.
- International Conference on Global Ecosystem, Biodiversity & Environmental Sustainability in the 21st Century, 2012.
- National Seminar on Fauna Diversity and Ecophysiology, (2012), Department of Zoology, North Eastern Hill University, Shillong, Meghalaya.

- The Third National Symposium on Earthworm Ecology and Environment (2012), Department of Zoology, Tripura University.
- Tripura Science Congress (2011), Tripura State Council for Science & Technology, Govt. of Tripura.
- UGC sponsored National Level Seminar on “Recent Trends in Zoology”. Netaji Nagar College for Women & Surendranath College, Kolkata, 2011.
- National Seminar on Scope & Recent Development of Natural Product (2010), Iswar Chandra Vidyasagar College, Belonia, South Tripura.
- National Seminar IGNOU, 2009.
- XX Annual conference, the Physiological Society of India, 2008.
- 1st National Symposium on Earthworm Ecology, Bareilly, 2007.
- 18th All India Congress of Zoology, Lucknow, 2007.
- National symposium in the Department of Chemistry, Tripura University, 2004.
- Indian Society of Soil Biology & Ecology, Bangalore, 2001.
- 3rd IFOAM - ASIA conference, Bangalore, 1997.

MEMBERSHIP/ POSITIONS IN LEARNED ACADEMIC BODIES

- National Symposium on Zoological Research in Relation to Man and Environment, Zoological Society, Calcutta University.
- Life member, Zoological Society, Kolkata.
- Life Member, Indian Society of Soil Biology & Ecology, Bangalore.
- Member, International Society for Tropical Ecology, BHU, Varanasi.
- Life Member, National Environmentalists Association.
- Member, Tripura Biodiversity Board.
- Executive member, Tripura Biotechnology Council.
- Life Member, Society of Applied Sciences, India.
- Life member, Society for Earthworm Ecology and Environmental Research (SEEER).

RESEARCH SUPERVISIONS

- 12 students awarded Ph.D.

SCHOLARSHIPS/ AWARDS/ RECOGNITIONS:

- Received Faculty Research Awards with medals for contribution in earthworm research and recipient of various awards during 2015 to 2020.
- Fellow of the National Institute of Ecology 2021, India.
- Lifetime Achievement Award (International Scientist Award on Engineering, Science and Medicine, 14-15 Sept 2019. VD Good Professional Association, Chennai, India).

- Editorial Board Member of UGC recommended Journal" Journal of Environmental Biology"(IF o.67).
- Received National Award " ENVIRONMENTAL BIOLOGIST OF THE YEAR 2017" on 5th June,17 The World Environment Day at World Clean Environment Congress (5th-6th June, 2017, Venue: India International Center, Lodhi Rd., N. Delhi) organized by Confederation of Indian Universities, Indian Institute of Ecology & Environment, N. Delhi & Scientific and Environmental Research Institute, Kolkata.
- Received BHARAT SIKSHA RATAN AWARD 2016 on the 5th of October 2016, World Teachers Day in the Science City auditorium, Kolkata, in the presence of national and international dignitaries.
- Fellow of the Zoological Society, (FZS) Kolkata.
- Subject of Biographical record in Marque's who's who in Science & Engineering (2006- 2007).
- Fellow, Society of Applied Sciences, India.
- Received SEEER award "Certificate of appreciation" in recognition of an Earthworm Biologist from The Society of Earthworm Ecology and Environmental Research, India, 2012.
- "SCIENCE EXCELLENCE AWARD 2015" in the field of Zoology, Foundation for Science and Environment, Kolkata & North Bengal University, WB. Selected as the "INSPIRED TEACHER OF TRIPURA UNIVERSITY".
- Selected as the" Inspiring Teacher of Tripura University" (2013).

OTHER INFORMATION (IF ANY):

- Convener and Organizer, The Third National Symposium on Earthworm Ecology and Environment, 9-11 Nov, 2012.