# DR. PROSENJIT GHOSH, W.B.E.S.

M.SC. PH. D.

ASSISTANT PROFESSOR AND HEAD

DEPARTMENT OF ZOOLOGY

GOVERNMENT GENERAL DEGREE COLLEGE, KALIGANJ

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## A. ACADEMIC QUALIFICATIONS

- Madhyamik from WBBSE in 1999 with First Division (79.38%)
- Higher Secondary from WBCHSE in 2001 with First Division (67.40%)
- First Class First (64.55%) in B.SC (Zoology Honours) from Chakdaha College, University of Kalyani in 2005.
- First Class (65.83%) in M.SC in Zoology from University of Kalyani in 2007.
- Qualified GATE in 2007.
- Qualified NET (LS) in June, 2014.
- Qualified NET (JRF) in December, 2014.
- Qualified SET in 2014.
- Ph. D in Cancer from Chittaranjan National Cancer Institute in 2015.

## B. ACADEMIC DISTINCTIONS AND AWARDS

- Awarded Satish and Tulasi Manna Memorial Endowment Bronze Medal for obtaining highest marks in Zoology Honours at the Bachelor of Science (Honours) Examination for the year 2005 in University of Kalyani.

## C. PROFESSIONAL HIERARCHY

| NAME OF THE POST | INSTITUTION | NATURE OF POST |
|---|---|---|
| Junior Research Fellow | Chittaranjan National Cancer Institute, Kolkata | FULL TIME |
| Senior Research Fellow | Chittaranjan National Cancer Institute, Kolkata | FULL TIME |
| Guest Lecturer in Zoology | Chakdaha College | TEMPORARY |
| Head & Assistant Professor of Zoology (W.B.ES) | Government General Degree College, Kaliganj | PERMANENT |

## D. TEACHING EXPERIENCE

- Guest Lecturer in Chakdaha College 10.09.2014 to 17.11.2015
- Assistant Professor of Zoology in the W.B.E.S at Government General Degree College, Kaliganj from 18.11.2015 to till date.

## E. TOPIC IN PH.D

"Prevention of Toxicity and Enhancement of Chemotherapeutic Efficacy of Antineoplastic Drugs by Organoselenium Compound"

## I. RESEARCH & PUBLICATIONS

### PAPERS IN JOURNALS/PROCEEDINGS

- **Prosenjit Ghosh.** A short review on beneficial effects of selenium on human health; International Academic Publishing House (ISBN: 978-81-969828-6-7). 2024; 148-158.

- **Prosenjit Ghosh.** An overview of sustainable development in Indian perspective. Environment Development and Sustainability; Bhumi Publishing (ISBN: 978-93-95847-87-2). 2024; 114-119.
- **Prosenjit Ghosh.** Biodiversity and consequences of its depletion: An Indian perspective. Recent Trends in Environmental Science and Applied Ecology; Bhumi Publishing (ISBN: 978-93-91768-04-1). 2021; 82-88.
- **Prosenjit Ghosh,** Somnath Singha Roy, Pramita Chakraborty, Sulekha Ghosh, Sudin Bhattacharya. Effects of organoselenium compound 2-(5-selenocyanatopentyl)-benzo[de]isoquinoline 1,3-dione on cisplatin induced nephrotoxicity and genotoxicity: an investigation of the influence of the compound on oxidative stress and antioxidant enzyme system. **Biometals.** 2013; 26:61–73.

- **Prosenjit Ghosh**, Somnath Singha Roy, Abhishek Basu, Arin Bhattacharjee and Sudin Bhattacharya. Sensitization of cisplatin therapy by a naphthalimide based organoselenium compound through modulation of antioxidant enzymes and p53 mediated apoptosis. **Free Radical Research.** 2015; 49: 453–471.

- **Prosenjit Ghosh**, Arin Bhattacharjee, Abhishek Basu, Somnath Singha Roy, and Sudin Bhattacharya. Attenuation of cyclophosphamide-induced pulmonary toxicity in Swiss albino mice by naphthalimide-based organoselenium compound 2-(5-selenocyanatopentyl)-benzo[de]isoquinoline 1,3-dione. **Pharm Biol**. 2015. 53:524–532.

- Somnath Singha Roy, **Prosenjit Ghosh,** Ugir Hossain Sk, Pramita Chakraborty, Jaydip Biswas, Syamsundar Mandal, Arin Bhattacharjee, Sudin Bhattacharya. Naphthalimide based novel organoselenocyanates: Finding less toxic forms of selenium that would retain protective efficacy. **Bioorg Med Chem Lett.** 2010; 20:6951–6955.

- Somnath Singha Roy, Pramita Chakraborty, **Prosenjit Ghosh,** Sulekha Ghosh, Jaydip Biswas, Sudin Bhattacharya. Influence of novel naphthalimide-based organoselenium on genotoxicity induced by an alkylating agent: the role of reactive oxygen species and selenoenzymes. **Redox Rep.** 2012; 17:157–166.

- Arin Bhattacharjee, Abhishek Basu, **Prosenjit Ghosh**, Jaydip Biswas and Sudin Bhattacharya. Protective effect of Selenium nanoparticle against cyclophosphamide induced hepatotoxicity and genotoxicity in Swiss albino mice. **J Biomater Appl.** 2014; 29:303–317.

- Abhishek Basu, **Prosenjit Ghosh**, Arin Bhattacharjee, Arup Ranjan Patra and Sudin Bhattacharya. Prevention of myelosuppression and genotoxicity induced by cisplatin in murine bone marrow cells: Effect of an organovanadium compound vanadium(III)-L-cysteine. **Mutagenesis**. 2015; 30:509-17.

- Abhishek Basu, Arin Bhattacharjeea, Prosenjit Ghosh, Amalesh Samanta, Sudin Bhattacharya. Sensitizing effects of an organovanadium compound during adjuvant therapy with cyclophosphamide in a murine tumor model. **Biomedicine & Pharmacotherapy.** 2017; 93:816–829.

- Abhishek Basu, Arin Bhattacharjee, Somnath Singha Roy, **Prosenjit Ghosh**, Pramita Chakraborty, Ila das and Sudin Bhattacharya. Vanadium as a chemoprotectant: effect of vanadium(III)-L-cysteine complex against cyclophosphamide-induced hepatotoxicity and genotoxicity in Swiss albino mice. **J Biol Inorg Chem**. 2014; 19:981–996.

- Somnath Singha Roy, Pramita Chakraborty, **Prosenjit Ghosh** and Sudin Bhattacharya. Micronutrient for Prevention of Cancer Chemotherapeutic Drugs Induced Damage and Cellular Toxicities, With Special Reference to Selenium. **Perspectives in Cytology and genetics.** 2011. 15 (123-138).

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- **PAPERS PRESENTED IN ACADEMIC SEMINARS/CONFERENCE/WORKSHOP**
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| Srl. No. | TOPIC OF THE SEMINAR | ORGANIZED AND SPONSORED BY | DATE | TITLE OF THE PAPER PRESENTED |
|---|---|---|---|---|
| 1. | "Signaling Network and Cancer". | Indian Association for Cancer Research sponsored International Symposium organized by Indian Institute of Chemical Biology, | 6-9 February, 2011 | Prevention of Cisplatin Induced Toxicity by Novel Naphthalimide Based Organoselenium |

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| | | Kolkata. | | Compound 2-(5-selenocyanatopentyl)-benzo[de]isoquinoline 1,3-dione *in vivo* |
| 2. | "Cancer Awareness." | Indian Association for Cancer Research, West Bengal Chapter sponsored national Symposium organized by Chittaranjan National Cancer Institute, Kolkata. | November 07, 2014 | Study of the Effect of a Naphthalimide Based Organoselenium Compound During Chemotherapy: Role of the Compound in Chemoprotection and Chemoenhancement of Cisplatin therapy in Mice Bearing Ehrlich Ascites Carcinoma Cells |
| 3. | Recent Development in Zoological Sciences | Barrackpore Rastraguru Surendranath College | 27th February, 2017 | Prevention of cisplatin induced renal and geno-toxicity by an organoselenium compound Swiss albino mice |
| 4. | Biological Sciences in the New Era: Current Progresses and Challenges Ahead | Government General Degree College at Kaliganj | 30th January, 2018 | Attenuation of cyclophosphamide induced pulmonary toxicity in Swiss albino mice by naphthalimide based organoselenium compound 2-(5-selenocyanatopentyl)-benzo[de]isoquinoline 1,3-dione |
| 5. | Contemporary Issues on Natural and Anthropogenic Effect in Environmental Crisis | Government General Degree College, Tehatta | 15-16 March, 2019 | Prevention of cyclophosphamide induced hemato-toxicity in mice by naphthalimide based organoselenium compound 2-(5-selenocyanatopentyl)-benzo[de]isoquinoline 1,3-dione |
| 6. | National level Seminar on "Sanskrit and Human value" | University of North Bengal Jalpaiguri Campus | 24th March, 2023 | Role of *Ocimum sanctum* (Tulsi), a sacred Ayurvedic herb in human welfare: The |

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| | | | | best boon for devotees by God Shri Vishnu |
| 7. | International Seminar on "Recent Developmental Trends in Biological Research" | Acharya Prafulla Chandra College, New Barrackpore | 15th July, 2023 | Amelioration of Cyclophosphamide induced hepatic toxicity in Swiss albino mice by Naphthalimide based organoselenium compound 2-(5-selenocyanatopentyl)-benzo[de]isoquinoline 1,3-dione |
| 8. | One Day Multidisciplinary International Seminar on "Education in India: Vedic To Modern Era" | Government General Degree College, Kaliganj | 5th September, 2023 | History of Zoology Research in 20th Century British India |