

Curriculum Vitae

DR. DIBYENDU GIRI

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- Permanent Address: Vill- Aulia, P.O.- Ramgarh, Dist.- Jhargram, West Bengal, India, PIN CODE- 721141
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1. Present position:

Assistant Professor & Head
Department of Physiology
Ghatal R. S. Mahavidyalaya
Ghatal – 721212
West Bengal, India

❖ Date of Joining: 20.09.2016

2. Educational Qualifications:

Degree	Name of Institution	Passing Year
B.Sc. (Hons.)	Vidyasagar University	2007
M.Sc.	Vidyasagar University	2009
B.Ed.	N. S. O. U	2015
Ph.D.	Vidyasagar University	2025

Thesis Title: Cancer Therapeutic Efficacy of Hesperetin Nano-Formulation: A Mechanistic Study Through Apoptosis, Oxidative stress and Immunomodulation

3. Qualifying: WBSET in Life Sciences (2015)

4. Additional Qualification:

Computer Applications

Known Areas

- **Operating Systems:** MS-DOS and Windows
- **DTP and Presentation Packages:** MS-Office, Adobe Photoshop etc.

5. Teaching Experience:

10 Years

6. Research Publication:

- **Giri D.** Role of NSS Volunteers in the Coronavirus disease 2019 (Covid-19) pandemic situation. *Ajanta*. 2020; 9(4):53-58.
- Pakhira AA, Gantait A, **Giri D.** Comparision of Phytochemical Concentration between Orange and Musambi Juice and Their Residue. *Research & Reviews in Biotechnology & Biosciences*. 2020; 7(2):76-88.
- Das SR, Dey SK, Mahata R, Chaudhuri AD, **Giri D**, Manna S, Choudhury SM. An overview on the interior and exterior stimuli-responsive biomaterials designed for cancer therapy. *Indian Journal of Biological Sciences*. 2020; 26; 67-91.
- Pramanik A, Chaudhuri AD, Chakraborty 6-88. B, **Giri D**, Majumder A, Chatterjee D, Pradhan A, Maiti P, Choudhury SM. Immunotoxic Effects of Cypermethrin in Male Wistar Rats: Attenuation by Co-Administration of Zinc and Alpha-Lipoic Acid. *Toxicology and Forensic Medicine Open journal*. 2021; 6(1):1-8.
- **Giri D.** Counseling and Guiding young learners-role of teacher. *International Journal of Multidisciplinary Educational Research*. 2022; 11; 9(2):52-54.
- Dey SK, Roy T, Chatterjee D, Manna S, **Giri D**, Chaudhuri AD, Majumder A, Pradhan A, Choudhury SM. Diosgenin-encapsulated PLGA nanoparticles induce oxidative stress-mediated cell death in Ehrlich ascites carcinoma cells by inducing G2/M phase cell cycle arrest. *Eur. Chem. Bull*. 2023; 12 (S6), 749-760.
- **Giri D**, Chaudhuri AD, Majumder A, Sinha A, Das S, Maity T, Ghosh A, Karan G, Modak M, Choudhury SM. Hesperetin encapsulated PLGA nanoparticles: synthesis, characterization and evaluation of its in-vitro antioxidant potential as well as in vivo toxicity in Swiss albino mice. *European Journal of Pharmaceutical and Medical Research*. 2024, 11(6): 445-454.
- **Giri D**, Dey SK, Mahata R, Roy T, Das A. Hesperetin-loaded polymeric nanoparticles inhibit proliferation and oxidative stress in Ehrlich ascites carcinoma bearing Swiss albino mice: An in vivo study exploring anticancer potential. *African Journal of Biological Sciences*. 2024; 6(12): 324-333.
- Chaudhuri AD, Majumder A, Manna S, Mondal S, **Giri D**, Choudhury SM. Advances in Nanotechnology-Enhanced Delivery Systems of Geraniol: A Promising Future in Cancer Therapeutics. *International Journal of Innovative Science and Research Technology*. 2024 Aug 9(9):1877-89.
- Majumder A, Dey SK, Manna S, Chaudhuri AD, **Giri D**, Mahata R, Maiti P, Bepari M, Karan G, Pradhan A, Choudhury SM. Effective in Vitro Antioxidant and Anti-Inflammatory Strategy Displayed by Gold Nanoparticles Using Anacardium Occidentale Leaf Extract. *Nanotechnology Perceptions*. 2024, S14 (20): 2278-2293.

- Sinha A, Karan G, Modak M, Bar P, Tripathy K, **Giri D**, Chatterjee D, Majumder A, Chaudhuri AD, Ghosh A, Malakar R. Benzyl Isothiocyanate Loaded Gelatin Nanoparticles Display Unique In vitro Antioxidant Prospects. *International Journal of Innovative Science and Research Technology*. 2024; 9(9): 2843-2851.
- **Giri D**, Dey SK, Manna S, Chaudhuri AD, Mahata R, Pradhan A, Roy T, Jana K, Das S, Roy S, Choudhury SM. Nanoconjugate Carrying pH-Responsive Transferrin Receptor-Targeted Hesperetin Triggers Triple-Negative Breast Cancer Cell Death through Oxidative Attack and Assemblage of Pro-Apoptotic Proteins. *ACS Applied Bio Materials*. 2024 Nov 6;7(11):7556-73.
- Chaudhuri AD, Mondal S, Mahata R, Manna S, Majumder A, Dey SK, **Giri D**, Roy T, Baral RN, Roy S, Saha B. Folate receptor-targeted and pH-tunable dextran modified geraniol-protein nano-scaffolds stir up oxidative assault and apoptotic killing of HCT-116 colorectal cancer cells. *International Journal of Biological Macromolecules*. 2025 May 1; 306:141741.
- Karan G, Pradhan A, Dey SK, Manna S, Mahata R, Choudhuri AD, **Giri D**, Maity P, Bepari M, Das AK, Choudhury SM. Comprehensive and comparative analysis of sorbitan ester (Span) niosomes as emerging vesicular drug delivery platform: fabrication, characterization, release dynamics, biocompatibility profiling and toxicological implications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 2025 Oct 17:138731.
- Manna S, Mondal S, Chaudhuri AD, Karan G, Dey SK, **Giri D**, Dolai M, Das AK, Choudhury SM. Rationally engineered PEGylated l-citrulline functionalized baicalein encapsulated HSA nanopolymer guided by molecular docking for tumor microenvironment responsive and redox modulated colon cancer therapy. *RSC advances*. 2026;16(1):667-86.
- Mahata R, Manna S, **Giri D**, Pradhan A, Baral R, Saha B, Choudhury SM. Targeted Delivery of Carvacrol via TPGS-Tf-Polydopamine Nanoconjugate Scaffold on TNBC Tumor Xenograft for Understanding In Vivo Tumor Dynamics and 3D Cancer Spheroid Model, Mimicking a Tumor Environment. *Molecular Pharmaceutics*. 2026; 23 (9): 4510–4523.

Book Article

- ✓ Majumder A, Chaudhuri AD, **Giri D**, Malakar R, Dey SK, Roy T, Pradhan A, Choudhury SM. Environmental Degradation: Basis, Impacts and Possible Alleviation. *Environment in 21st Century* (ISBN: 978-93-90847-57-0), 2021. Kripa Drishti Publications.

- ✓ Das SR, **Giri D**, Roy T, Dey SK, Mahata R, Chaudhuri AD, Mondal S, Choudhury SM. Immunotoxin: A New Generation Agent for Cancer Treatment. Promising Cancer Therapeutic Drug Targets: Recent Advancements. 2025 Jun 19:156. Bentham Science Publishers Pte. Ltd., Singapore.
- ✓ Dey SK, Jana A, **Giri D**. Urban Farming, and Ecological Restoration. Environment in 21st Century. (ISBN: 978-93-48091-41-3). Kripa Drishti Publications.
- ✓ Dey SK, **Giri D**, Jana A. Inequities in Public Health: An Analysis of Global and Indian Healthcare Disparities and the Challenges. Social Development Challenges and Solutions (ISBN: 978-93-48059-39-0), 2025. Bharti Publications.
- ✓ Dey SK, **Giri D**, Jana A. Technology for Conserving and Saving Water. A Symphony of Nature and Innovation. (ISBN: 978-93-48091-20-8), 2025. Kripa Drishti Publications.
- ✓ **Giri D**, Choudhuri AD, Majumder A, Dey SK. Traditional Therapeutic Dietary Approaches in the Prevention and Management of Cardiovascular Diseases. Traditional Indian Dietary Systems: An Indian Knowledge System (IKS) Perspective. (ISBN: 978-93-47336-71-3), 2026. Kripa Drishti Publications.

Abstract Publication/Seminar presentation

- I. *In vitro* and *in vivo* toxicity study of silver nano particles using *Anacardium occidentale* leaf extract in Swiss albino mice. Dibyendu Giri, Madhubanti Bepari and Sujata Maiti Choudhury. FIPSPHYSIICON 2017. 5-7th November, 2017. Defence Institute of Physiology & Allied Science, Delhi, India.
- II. *Calotropis gigantea* latex extracts display antiproliferative, antioxidant and apoptotic potential against Ehrlich Ascites Carcinoma (EAC) cells. Dibyendu Giri and Sujata Maiti Choudhury. 105th Indian science Congress, 16-20th March, 2018. Manipur University, Imphal, Manipur, India.
- III. Phytochemical based Nanotechnology for effective treatment of Cancer. Dibyendu Giri. International Seminar on Global Challenges on Food and Environment. 9th April, 2019. Belda College, Belda, Paschim Medinipur, West Bengal, India.
- IV. Role of NSS Volunteers in the Coronavirus disease 2019 (Covid-19) pandemic situation. Dibyendu Giri. International Webinar on Role of Social Services in Covid-19 Situation. 3rd September, 2020. Murud Janjira, Raigad, Maharashtra, India.
- V. Evaluation of cytotoxic efficiency and nontoxic properties of Transferrin modified Hesperetin loaded PLGA nanoparticles against breast cancer. Dibyendu Giri and Sujata Maiti Choudhury. International Conference on ICCIIFCPAS 2020. 21-22th January, 2020. Department of Human Physiology, Vidyasagar University, Midnapore, Paschim Medinipur, West Bengal, India.

- VI. Therapeutic Efficacy of Photochemicals for Cancer Treatment. Dibyendu Giri. Indian Academic Researchers' Association (IARA). 19-25th July, 2020. Kolkata, West Bengal, India.
- VII. Evaluation of *in vitro* antioxidant and anti-inflammatory potentials of transferrin modified Hesperetin loaded PLGA nanoparticles. Dibyendu Giri and Sujata Maiti Choudhury. Reconnecting Physiology and Nature for Health Life. 25th-27th March 2022. FIPS and NIPER, Hyderabad, India.
- VIII. Therapeutic efficacy of Transferrin-modified Hesperetin loaded PLGA nanoparticles against breast cancer. Dibyendu Giri and Sujata Maiti Choudhury. 108th Indian science Congress, 03-07th January, 2023. Rashtrasant Tukadoji Nagpur University, Nagpur, Maharashtra, India.
- IX. Evaluation of *in vivo* anticancer activity of Transferrin modified Hesperetin loaded PLGA nanoparticles against Ehrlich Ascites Carcinoma. Dibyendu Giri and Sujata Maiti Choudhury. Three Day International Conference on Research and Technological Advancement in Health Sciences and Sustainable Development. 03-05th March, 2023. Department of Human Physiology, Vidyasagar University, Midnapore, Paschim Medinipur, West Bengal, India.
- X. Evaluation of anticancer properties of Transferrin modified Hesperetin loaded PLGA nanoparticles against Breast Cancer. Dibyendu Giri. One Day International Seminar on Revitalizing Ancient Indian Knowledge System. 6th May, 2025. IKS Cell, Ghatal Rabindra Satabarsiki Mahavidyalaya in collaboration with Chandrakona Vidyasagar Mahavidyalaya, Paschim Medinipur, West Bengal, India.

7. Professional Membership:

- ❖ Life member-Indian Science Congress Association (ISCA)

Midnapore
Date: 10.09.26


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