

FACULTY MEMBERS' ACADEMIC PROFILE

- 1. Name of the Faculty member:** Dr. Anirban Chouni
- 2. Designation:** Assistant Professor
- 3. Qualification:** M.Sc, Ph.D.
- 4. Specialization:** Plant Physiology, Biochemistry and Cell Biology
- 5. E-mail address:** anirbachouni@yahoo.com
- 6. Date of Joining in W.B.E.S.:** 02.01.2025
- 7. Date of Joining in this College:** 02.01.2025
- 8. Total Teaching experience at the college level:** Approximately 1 year
- 9. Research interests:** Cancer Biology, Phyto chemistry, Drug discovery, Bio prospecting
- 10. Title of thesis (Ph.D.) with year:** Assessment of anticancer potential and metabolomic profiling of the medicinal plant *Garcinia cowa* Roxb. ex DC. 2024
- 11. Research guidance:**
- 12. Research Projects (Completed and ongoing):**
- 13. List of publications:**
 - A) Published papers in Journals:**
 1. **A. Chouni**, D. Hajra, R. Ray, S. Paul, Bioactivity-guided isolation followed by network pharmacology and molecular docking reveals a novel polyphenolic xanthone, β -mangostin from *Garcinia cowa* leaves as a potent compound against non-small cell lung cancer, *Pharmacological Research - Modern Chinese Medicine* 10 (2024) 100367. <https://doi.org/10.1016/j.prmcm.2024.100367>
 2. **A. Chouni**, A. Pal, P.K. Gopal, S. Paul, GC-MS analysis and screening of anti-proliferative potential of methanolic extract of *Garcinia cowa* on different cancer cell lines, *Pharmacognosy Journal* 13 (2021) 347–361. <https://doi.org/10.5530/pj.2021.13.45>.
 3. **A. Chouni**, S. Paul, A Comprehensive Review of the Phytochemical and Pharmacological Potential of an Evergreen Plant *Garcinia cowa*., *Chem Biodivers* (2023) e202200910. <https://doi.org/10.1002/cbdv.202200910>.
 4. **A. Chouni**, S. Paul, A Review on Phytochemical and Pharmacological Potential of *Alpinia galanga*, *Pharmacognosy Journal* 10 (2018) 9–15. <https://doi.org/10.5530/pj.2018.1.2>.
 5. A. Pal, R. Ray, **A. Chouni**, S. Hajra, S. Paul, Novel wild edible mushroom *Astraeus*



hygrometricus induces robust apoptosis on human acute lymphoblastic leukemia cells through a RONS-subsisted mitochondria-dependent pathway, *Journal of Traditional Chinese Medical Sciences* (2023). <https://doi.org/10.1016/j.jtcms.2023.12.008>.

6. D. Hajra, **A. Chouni**, S. Paul, Neohesperidin, a flavanone glycoside resourced from *Curcuma amada* rhizome, holds the key to the remediation of diabetes mellitus: An integrated experimental and computational study, *Pharmacological Research - Modern Chinese Medicine* 11 (2024) 100430. <https://doi.org/10.1016/j.prmcm.2024.100430>.

7. D. Hajra, **A. Chouni**, S. Paul, Phytochemistry, antioxidant and anti-diabetic activities of *Sterculia villosa* in-vitro, *Pharmacological Research - Modern Chinese Medicine* 13 (2024) 100530. <https://doi.org/10.1016/j.prmcm.2024.100530>.

8. S Jha, D Hajra, **A Chouni**, S Paul, Novel triterpenoid, Schidigeragenin B resourced from the mother tincture of *Conium maculatum*: A promising future Antidiabetic drug, *Pharmacological Research-Natural Products* 4, 100077. <https://doi.org/10.1016/j.prenap.2024.100077>.

9. S. Sarkar, A. Pal, **A. Chouni**, S. Paul, A novel compound β -sitosterol-3-o- β -d-glucoside isolated from *Azadirachta indica* effectively induces apoptosis in leukemic cells by targeting g0/g1 populations, *Indian J Biochem Biophys* 57 (2020) 27–32.

10. A. Pal, **A. Chouni**, A. Das, R. Ray, S. Paul, Evaluation of Anti-proliferative Potential and Antioxidant Activity of a Wild Edible Mushroom *Macrocybe crassa* (Sacc.) Pegler and Lodge, *Pharmacognosy Journal* 11 (2019).

11. S. Karmakar, **A. Chouni**, A. Pal and S. Paul. Assessment of the antioxidant and inhibitory property of leaf extract of *Ricinus communis* Linn. on proliferation against different human cancer cells, *Research Journal of Biotechnology* 19(10):85-93 (2024). DOI:10.25303/1910rjbt085093

B) Conference Proceedings:

1. National Conference PHYSICON 2021 on Women's Health in India: Issues and concerns and XXXIInd Annual Conference of The Physiological Society of India organized by Department of Physiology, Berhampore Girls College, India entitled "GC-MS Analysis and screening of antiproliferative potential of the methanolic extract of an evergreen plant *Garcinia cowa* on different cancer cell lines", 14-16th March 2022. (Abstracts): p. 74.

2. 44th All India Cell Biology Conference and International Symposium on Molecular & Cellular Insights of Human Diseases organized by the Department of Biochemistry, University of Kashmir, India and Indian Society of Cell Biology entitled "Bioactivity-Guided isolation, Identification and In-Depth Evaluation of the Anticancer Properties of the compounds isolated from *Garcinia cowa* Leaf Extract," 2-3 September 2022. (Abstracts): BCH-67.

3. International Conference PHYSICON 2022 on Research and Technological Advancement in Health Sciences and Sustainable Development and XXXIIInd Annual Conference of The Physiological Society of India organized by Department of Human Physiology, Vidyasagar University, India entitled “Network Pharmacology and Molecular Docking reveal a novel compound from *Garcinia cowa* leaves as the potent small molecule against non-small cell lung cancer,” 3-5th March 2023. (Abstracts): p.137.

4. 1st Botanical Congress, an International Meet organized by Botanical Society of Bengal in collaboration with Department of Botany, University of Calcutta, India entitled, “Identification of β -mangostin, a xanthone from *Garcinia cowa* leaf extract exhibiting potent anti-cancer properties against lung cancer”, 23-25th March 2023. (Abstracts): p. 44.

14. Membership of Learned Societies/ Editorial Boards, etc.:

Botanical Society of Bengal

15. Patents:

16. Awards:

1. Awarded with **Young Scientist Award** in Medicinal Plants section at 1st Botanical Congress, an International Meet organized by Botanical Society of Bengal in collaboration with Department of Botany, University of Calcutta, entitled, “Identification of β -mangostin, a xanthone from *Garcinia cowa* leaf extract exhibiting potent anti-cancer properties against lung cancer”, 23-25th March 2023.

2. Awarded with one of the **Best Paper Presentation** at National Conference PHYSICON 2021 on Women’s Health in India: Issues and concerns and XXXIInd Annual Conference of The Physiological Society of India organized by Department of Physiology, Berhampore Girls College, entitled “GC-MS Analysis and screening of antiproliferative potential of the methanolic extract of an evergreen plant *Garcinia cowa* on different cancer cell lines” 14-16th March 2022.

17. Other notable activities:

A Workshop conducted as Research and Technical Support on the Application of Flow Cytometry in Animal and Plant Science Research was held on 16th – 18th November 2023 organized by the Department of Botany, University of Calcutta, India.

18. Participation in

A) Seminars/Symposia/Conferences/Workshops:

B) OP/RC: