



Dr. M. AMUTHA

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PROFESSIONAL PROFILE

Associate Professor with 24 years of teaching and 15 years of research experience in Chemistry. Specializes in Phytochemistry and Nanochemistry with proven expertise in academic leadership, research supervision, institutional quality assurance, UGC-funded research, and mentoring. Currently serving as IQAC Coordinator and has actively contributed to NAAC, ISO, IIC, NSS, and various institutional initiatives.

ACADEMIC SNAPSHOT

Teaching Experience	24 Years
Research Experience	15 Years
Journal Publications	14
Conference Papers	25
UGC Projects	1
Ph.D. Guidance	1 Completed
Current Academic Role	IQAC Coordinator
Area of Specialization	Phytochemistry & Nanotechnology

EDUCATION

- ✚ B.Sc. Chemistry – APACollege for Women, Palani (1993)
 - ✚ M.Sc. Chemistry – APA College for Arts and Culture, Palani (1995)
 - ✚ B.Ed. Physical Science – Madurai Kamaraj University, Madurai (1996)
 - ✚ M.Phil. Chemistry – Bharathidasan University, Trichy (2006)
 - ✚ Ph.D. Chemistry – Avinashilingam University, Coimbatore (2017)
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ACADEMIC LEADERSHIP

- ✚ **IQAC Coordinator – Nallamuthu Gounder Mahalingam College, Pollachi (2025– Present)**
 - ✚ IIC Convener – Nallamuthu Gounder Mahalingam College, Pollachi (2022–2024)
 - ✚ IQAC Criterion Manager – Nallamuthu Gounder Mahalingam College, Pollachi (2024)
 - ✚ ISO Internal Auditor – Nallamuthu Gounder Mahalingam College, Pollachi (2018–2024)
 - ✚ Department ARIIA Coordinator – Nallamuthu Gounder Mahalingam College, Pollachi (2018–2019)
 - ✚ Diary of Events and Annual Report In-charge – APA College for Women, Palani (2017– 2018)
 - ✚ NAAC Criteria Development Committee – APA College for Women, Palani College (2017)
 - ✚ Youth Welfare Association Staff-in-charge – APA College for Women, Palani (2015–2017)
 - ✚ Women Cell Coordinator – APA College for Women, Palani (2013–2016)
 - ✚ IQAC Report Consolidation Committee – APA College for Women, Palani (2012–2013)
 - ✚ Consumer Club Coordinator – APA College for Women, Palani (2011–2012)
 - ✚ NSS Advisory Committee Member – APA College for Women, Palani (2011–2012)
 - ✚ NCC Caretaker – APA College for Women, Palani (2010)
 - ✚ NSS Officer – APA College for Women, Palani (2009–2010)
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RESEARCH CONTRIBUTIONS

- ✚ UGC Minor Research Project: **Completed UGC – Minor Research Project (UGC-XI plan), Amount: Rs 1,18,000, Entitled: “ISOLATION OF MEDICINALLY SIGNIFICANT COMPOUNDS FROM THE MEDICINAL PLANT OF CUCURBITACEAE FAMILY”**
 - ✚ External Ph.D. Examiner & Viva Examiner: Manonmaniam Sundaranar University, Tirunelveli.
 - ✚ 1 Ph.D. Successfully Guided
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ACADEMIC ENGAGEMENTS

<u>Activity</u>	<u>No</u>
Seminars, Workshops, Conferences, FDPs Attended	55
Papers Presented in Seminars, Workshops, Conferences	25
Seminars / Workshops / Special Lectures Organised	07
Industrial Visits Organised	05
Institutions as Board of Studies Member	02
Institutions as Question Paper Setter	04
Extension Activities Organised and Participated	12

AWARDS & RECOGNITION

- **IDMA ACG-SCITECH Best Research Paper Awards (2020 & 2021):** Received awards in the Discipline “Pharmacology,” comprising a citation and a cash award of Rs. 5,000/-, presented by **Hon'ble Piyush Goyal at the IDMA 60th Year Celebration.**
 - **IIC 3.5 Star Rating Recognition:** Awarded a 3.5 Star Rating by IIC during the 2022-2023 academic year under my convenorship.
 - **Life Saving Award:** Received the “Life Saving Award” from the 108 Ambulance Service, **Government of Tamil Nadu**, on 04.05.2010 for contributions to community life-saving.
 - **Community Outreach Recognitions:** Received appreciation for organizing a voluntary blood donation camp at APA College for Women (2010) and for conducting special NSS camps regarding Health & Hygiene and eye care in Korikkadavu, Kovil Ammapatti, and Nachiappagoundan Valasu (2009).
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PUBLICATIONS

JOURNAL PUBLICATIONS

- ✚ Thendral KT, **Amutha M**, Ragunathan R, Saranya K. Development of Manganese Cobalt Oxide (MnCo₂O₄) Nanoparticle as Multifunctional Agents for Antibacterial, Anticancer and Dye Degradation Applications. [Inorganic chemistry communications. Volume 168, October 2024, 112854,
https://doi.org/10.1016/j.inoche.2024.112854.](https://doi.org/10.1016/j.inoche.2024.112854)

- ✚ Thendral KT, **Amutha M**, Ragunathan R. Versatile biopolymer–functionalized copper cobalt oxide nanocomposite (Ch/CuCo₂O₄): Synthesis and applications in antibacterial, anticancer, and photocatalysis. *Ceramics International*. 2024 Feb 14. Volume 6, Issue 8, 1306.-1316. <http://dx.doi.org/10.1016/j.ceramint.2024.02.168>

- ✚ Thendral KT, **Amutha M**, Ragunathan R. Design and development of copper cobaltite (CuCo₂O₄) nanoparticle for antibacterial anticancer and photocatalytic activity. *Materials Letters*. 2023 Oct 15; 349:134720. <https://doi.org/10.1016/j.matlet.2023.134720>

- ✚ **Amutha Muthusamy** and Lalitha Pottail. Rapid Green Synthesis of Gold and Silver Nanoparticles Using Ethanol Extract of *Kedrostis Foetidissima* (Jacq.) Cogn. and its Anticancer Efficacy Against A549 Human Lung Cancer Cell Lines. *Indian Drugs*. 2021 | Volume No. 58 | Issue No.3 | Page No. 30-40. [https://doi.org/10.53879/id.58.03.11834.](https://doi.org/10.53879/id.58.03.11834)

- ✚ Ganesan Venkatachalam and **Amutha Muthusamy**. Phytochemical evaluation and anticancer activity of *Ocimum sanctum L.* - A review. *Journal of Pharmacy Research*. 2018, 12(7): 917-923. ISSN 0974 - 6943.

- ✚ **Amutha M**, Lalitha P, Jannathul Firdhouse M. In silico Structure Based Drug Designing of Lead Compounds for Lung Cancer. *World Journal of Pharmacy and Pharmaceutical Sciences*. Volume 6, Issue 8, 1306-1316; ISSN 2278-4357.

- ✚ **Amutha M**, Lalitha P. Phytochemical Screening and In vitro Evaluation of Antimicrobial Activity of *Kedrostis foetidissima* extract impregnated Face Mask. *International Journal of Pharma and Chemical Research*. ,Volume 1, Issue 4, Oct – Dec , 2015, 165 . ISSN 2395- 3411..

- ✚ **Amutha Muthusamy**, Lalitha Pottail. Screening of *Kedrostis Foetidissima* (Jacq.) Cogn. extracts for A-Amylase Inhibition. *International Journal of Interdisciplinary Research and Innovations*. ISSN 2348-1218 (print) ISSN 2348-1226 (online) Vol. 3, Issue 4, pp: (106-110), Month: October - December 2015, Page | 106.

- ✚ **Amutha M**, Lalitha P. Cytotoxicity effect of Ethanol extract of *Kedrostis Foetidissim (Jacq.) Cogn.* in Human Osteosarcoma Cell Lines (MG-63). International Journal of Pharmaceutical Chemistry & Toxicology. Vol. 1 Issue 1, 2015; 42 – 45.

- ✚ **Amutha M**, Lalitha P. Proximate Analysis of leaf and Stem of *Kedrostis Foetidissima (Jacq.) Cogn.* International Journal of Natural Products and Marine Biology. Vol. 1 Issue 1, 2015; 7 – 10; www.ijpct.sbtjournals.com.

- ✚ **Amutha M**, Lalitha P. Biological Effect of *Kedrostis foetidissima* On A-549 Lung Cancer Cell Lines. International Journal of Extensive Research.2015, 5:10-13 e-Print ISSN: 2394-0301.

- ✚ **Amutha M**, Lalitha P. Evaluation of anti oxidant activities of stem and leaf extracts of *Kedrostis foetidissima (Jacq) Cogn.* International Journal of Research in Pharmaceutical Sciences. 2015, 5(1) ; 28 – 34. ISSN 2249-3522.

- ✚ **Amutha M**, Lalitha P, Jannathul Firdhouse M. Biosynthesis of Silver Nanoparticles *Using Kedrostis foetidissima (Jacq.) Cogn.* Journal of Nanotechnology. Volume 2014, Article ID 860875, 5 pages. <http://dx.doi.org/10.1155/2014/860875>

- ✚ **Amutha M**, Lalitha P. Evaluation of Wound Healing Activity of Leaf and Stem Extract of *Kedrostis Foetidissima (Jacq.) Cogn.* RJPBCS. Volume 4 Issue 2 Page No.445., ISSN:0975-8585 April – June 2013.

- ✚ **Amutha M**, Lalitha P. A Review on *Kedrostis foetidissima (Jacq.) Cogn.* Journal of Pharmacy Research 2012,5(5),2644-2647; ISSN: 0974-6943.

BOOK CHAPTERS

- **Amutha M.** (2016). Nanomedicines of Natural Product Origin-Recent Advancements. Proceedings of UGC sponsored One Day National Level Seminar on Eco-Waste Management & Nanobiology [EWMN-2016].

 - **Amutha M**, Lalitha P. (2015/2016). Cytotoxicity effect of Ethanol extract of *Kedrostis Foetidissima(Jacq.)Cogn.* in Human Osteosarcoma Cell Lines (MG-63). Proceedings of ICMR sponsored National Conference on Challenging Issues and Technological Approaches in Medicine.
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