

Dr. Tancia Rosalin

Designation: Assistant Professor, Department of Biotechnology

Qualification: MPhil., Ph.D.

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EDUCATIONAL QUALIFICATION

BSc. Microbiology : Amrita School of Biotechnology, Amritapuri (2005-2008)
Amrita Vishwa Vidyapeetham University

MSc. Biotechnology : Amrita School of Biotechnology, Amritapuri (2008-2010)
Amrita Vishwa Vidyapeetham University

MPhil Biotechnology : Department of Biotechnology, University of Calicut (2013)

CSIR-UGC NET : 2015

UGC JRF : 2015

Ph.D. Biotechnology : Department of Biotechnology, University of Calicut (2023)

AREA OF INTERESTS: Phytochemistry, Cancer, Apoptosis, Nanoparticles

PUBLICATIONS

- Rosalin T and Elyas KK: Pharmacognostical and physico-chemical evaluation of an Indo-Sri Lankan ethnomedicinal plant species *Polyalthia korinti* (dunal) benth. & hook. f. *Int J Pharm Sci & Res* 2018; 9(10): 4355-60.
- K.K. Thasneema, M.S. Thayyil, T. Rosalin, et al.,(2020). Thermal and spectroscopic investigations on three phosphonium based ionic liquids for industrial and biological applications. *Journal of Molecular Liquids*, 307, 112960.
- Thasneema, K. K., Dipin, T., Thayyil, M. S., Sahu, P. K., Messali, M., Rosalin, T., ... & Hadda, T. B. (2021). Removal of toxic heavy metals, phenolic compounds and textile dyes from industrial waste water using phosphonium based ionic liquids. *Journal of Molecular Liquids*, 323, 114645.
- Thomas, R., Megha, K. B., Surya, P. H., Rosalin, T., Varghese, S., & Elyas, K. K. (2021). Investigation on the biological attributes of *Tragia involucrata* Linn. using in vitro methods. *Journal of Pharmacognosy and Phytochemistry*, 10(1), 398-404.

PRESENTATIONS

- *Polyalthia korintii* leaf extract-mediated green synthesised iron oxide nanoparticles for biological and environmental applications Tancia Rosalin, Hana Mol K.E and K.K.Elyas. 35th Kerala Science Congress - Abstracts, 10- 14 February 2023, ISBN: 978-81-953863-7-6.
- Antiproliferative, antibacterial and antioxidant potential of an ionic liquid - trihexyltetradecylphosphonium chloride. **Tancia Rosalin**, K.K. Thasneema, K.K. Elyas, M.S. Thayyil. KSCSTE Sponsored National Seminar 'BIO-CONFERENCE 2022' on 'Advances in Bioscience Research' organised by the Department of Biotechnology, EMEA College of Arts and Science, Kondotti on 29-30, November 2022.
- Non Polar Extract from *Polyalthia korintii* Leaves Inhibits Proliferation, Migration, Invasion and Induces Apoptosis in Human Colorectal Carcinoma Cells. **Tancia Rosalin** and K.K.Elyas 34th Kerala Science Congress - Abstracts, 10- 12 February 2022, ISBN: 978-81-953863-1-4.
- Efficient removal of methyl orange and methylene blue using iron oxide nanoparticles synthesized from aqueous leaf extract of *Clerodendrum paniculatum* L. and *Polyalthia korintii*. Hana Mol K E, **Tancia Rosalin**, K.K. Elyas. International conference on advances and Innovations in Recycling Engineering (AIR-2021), October 21-22, 2021.
- Comparative study between catalytic and larvicidal activity of aqueous leaf extract of *Clerodendrum paniculatum* L. and its biosynthesised iron nanoparticles. Hana Mol K E, **Tancia Rosalin**, K.K. Elyas. Proceedings Of The International Conference On Advances in Biochemistry, Agriculture and Biological Sciences- 2021, September 24-25,2021, ISBN: 978-93-90146-29-1.
- Synthesis, Characterization and Bioactivity Studies of *Clerodendrum paniculatum* L. Leaf Extract Derived Iron Oxide Nanoparticles. Hana Mol K E, **Tancia Rosalin**, K.K. Elyas. Proceedings Of The International Conference On Agriculture, Climate Change & Life Sciences 2021 Mar 05-06, 2021, ISBN 978-93-90146-15-4
- Antioxidant and anti-proliferative potential of an unexplored endemic species – *Polyalthia Korintii* (Dunal) Benth. & Hook. F. **Tancia Rosalin** and K.K. Elyas, UGC Sponsored Two day International Seminar on Molecular Biology an Underpinning to the Life Sciences organized by the Post Graduate & Research Department of Zoology, Farook College, Kozhikode, 8-9 January 2018.
- Antioxidant and Antiproliferative Potential of an Unexplored Endemic Species – *Polyalthia Korintii* (Dunal) Benth. & Hook. F. **Tancia Rosalin** and K.K. Elyas

Second International Conference on “Nutraceuticals and Chronic Diseases “(INCD-2017) organized by Society for Nutraceuticals and Chronic Diseases and IIT Guwahati in Goa, 1-3 September 2017.

- Antioxidant activity, total phenolic and flavonoid content evaluation of an endemic species - *Polyalthia korintii* (Dunal) Benth. & Hook. F. **Tancia Rosalin** and K.K. Elyas. Proceedings of Extended Abstracts, 29th Kerala Science Congress, 28-30 January 2017.

WORKSHOPS/ TRAINING ATTENDED

- Three day workshop on “Basic techniques in molecular techniques” jointly organised by Centre for Advances in Molecular Biology (CAMB) and Department of Zoology, University of Calicut on 2nd to 4th, August 2018.
- National workshop in Cheminformatics conducted by Department of Biotechnology, University of Calicut under the Bioinformatics Infrastructure Facility sponsored by DBT, Govt. of India, from 6th – 8th of December 2016.
- Three day workshop on cell culture and gene expression studies using Real time PCR jointly organised by Centre for Advances in Molecular Biology (CAMB) and Department of Zoology, University of Calicut from 17th to 19th October 2019.
- One day workshop hosted by Interuniversity Centre for Plant Biotechnology, Calicut University on Facilitating Innovation and Patent Filing organised by Inter University Centre for Intellectual Property Rights Studies (IUCIPRS), CUSAT on February 3, 2016.
- FDP on How to publish high impact research articles? Organized by the Research Consultancy and Extension Cell (RCEC) in association with Internal Quality Assurance Cell (IQAC), Sullamussalam Science College, Areekode, Malappuram on 15th January 2022.
- FDP on Research Methodology organised by the Research Consultancy and Extension Cell (RCEC) in association with Internal Quality Assurance Cell (IQAC), Sullamussalam Science College, Areekode, Malappuram on 22nd November 2021.

- Three day workshop on ‘Biotechnology & Bioinformatics’ organized by the Department of Biotechnology, University of Calicut from 23rd- 25th February, 2022 (Resource Person)
- Seven Days International Faculty Development Online Certificate Course on “MICROSCOPY – AN OVERVIEW (Phase I)”organized by the Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Microbiologists Society, India; Biotechnology Society of Nepal and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil from 03rd February 2023- 09th February 2023.
- Seven Day National Level Online Faculty Development Program on Outcome Based Education (OBE) organised by S.E.S College, Sreekandapuram in association with The Kerala State Higher Education Council (KSHEC) from 18 January to 25 January 2023
- International Conference and Workshop on **“Recent Advances In Biotechnology”** organized by the Department of Biotechnology, University of Calicut, Malappuram, Kerala from March 7th – 9th, 2023 (Resource Person).