

Dr. M. ANUSHA RANI

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Educational Background:

B.Sc., CHEMISTRY – Scott Christian College, Nagercoil

M.Sc., CHEMISTRY – The American College, Madurai

M.Phil., CHEMISTRY – Madurai Kamaraj University, Madurai

Ph. D., CHEMISTRY – Madurai Kamaraj University, Madurai

Teaching experience: 7 years

Research Experience:

Title of Ph. D thesis : **Synthesis and studies of novel heterocycles**

Supervisors : **Dr. R. Ranjith Kumar & Prof. S.Sivakolunthu**

Institute/University : Madurai Kamaraj University, Madurai,

Year of Award : 2017.

Research Interests : Synthesis of Heterocyclic Compounds & Organic Sensor

List of Publications :

1. Selvaraj Kanchithalaivan, **Mani Anusha Rani**, and Raju Ranjith Kumar*, Stereoselective synthesis of novel dispiro oxindole-pyrrolothiazole-androsterone hybrids, *Synth. Commun.* **2014**, 44, 3122.
2. **Mani Anusha Rani**, Veerappan Jeya chandran, Muthumani Muthu, Subbiah Sivakolunthu and Raju Ranjith Kumar*, Microwave-assisted chemoselective synthesis of novel pyrazolo[4,3-*e*] thieno[3,2-*b*] pyridines: substitution induced axial chirality, *Tetrahedron Lett.*, **2014**, 55, 5805.
3. **Mani Anusha Rani**, Sundaravel Vivek Kumar, Somi Santhram Roja, Abdulrahman I. Almansour, Raju Suresh Kumar, Natarajan Arumugam, S. Athimoolam, Raju Ranjith Kumar*, Synthesis of highly functionalized 2-thiaspiro [4.5]deca-6,8-

dienes *via* atom efficient tandem Michael addition/Thorpe- Ziegler cyclization, *RSC Adv.* **2016**, 6, 40585.

4. **Mani Anusha Rani**, Sundaravel Vivek Kumar, Karuppiah Malathi, Muthumani Muthu, Abdulrahman I. Almansour, Raju Suresh Kumar and Raju Ranjith Kumar*, A one-pot multicomponent 1,3- dipolar cycloaddition strategy: combinatorial synthesis of dihydro thiophenone-engrafted dispiro hybrid heterocycles, *ACS Com. Sci.* **2017**, 19, 308.
5. Sundaravel Vivek Kumar, **Mani Anusha Rani**, Abdulrahman I. Almansour, Raju Suresh Kumar, S. Athimoolam and Raju Ranjith Kumar* A one-pot access to pyridine / benzo fused cyclododecanes *via* multi-component tandem reactions, *Tetrahedron*, **2018**, 74, 4569.

Paper Presentations

- **“An easy access to novel dispirothiazolo [3,2-*a*]pyridines *via* 1,3-dipolar cycloaddition”** Poster presented in the National Seminar on Current Trends in Organic Synthesis held on 19th June 2013 at Madurai Kamaraj University, Madurai-21.
- **“Synthesis of novel oxindole thiophene hybrids tethered with pyrrolidine, pyrrolothiazole or indolizine rings”** Poster presented in 2nd International Symposium on Emerging Trends in Chemical and Pharmaceutical Sciences and Pharma Chem Expo-2014 held on October 15th to 17th 2014 at ICT, Hyderabad.
- **“Synthesis, characterization, DNA cleavage and antimicrobial activity of water soluble mixed ligand copper (II) complexes”** Poster presented in the 13th Euraisa Conference on Chemical Sciences held on December 14-18, 2014 at Indian Institute of Science, Bangalore, India.

Awards and Fellowship

- UGC- BSR Meritorious Fellowship (26.12.2012 to 26.12.2016)
- State Level Eligibility Test- (SET-LS) (Oct 2012)

Workshop Organised

Three-Day National level workshop on ‘in-Silico Tools for Computer-Aided Drug Design (i- CADD)’, Department of Chemistry, from 29-11-2023 to 01-12-2023 at Lady Doak College, Madurai.

OTHER RESPONSIBILITIES HELD IN THE COLLEGE:

- Convenor of Red Ribbon Club from 2023 to till date
- Red Ribbon Club Member 2020 to 2023
- NSS faculty member 2019-2020
- Prizes committee member 2018-2019
- Member of Centre of Environmental Studies 2021 to till date
- Member of Instrumentation Centre 2021 - 2023
- Department Club Convenor 2018 to 2023
- Department Secretary from 2018 to 2021
- Alumnae Association Member from 2019 till date
- Department Alumnae in-charge for UG 2018 to till date
