Dr. M. MUTHU M. Sc., M. Phil., Ph. D.

Permanent Address

6/573/5A, Thiru Vi Ka Street,
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Virudhunagar – 626 001.
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Tamilnadu.

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I would like to pursue my career in more challenging and creative environment wherein I could keep upgrading and deliver my complete knowledge with extreme dedication for the growth and welfare of the concerned organization.

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CORE COMPETENCIES

- Perseverance and motivation
- Initiative and Team Work
- Negotiation and persuasion
- Decision Making
- Educational technology expertise
- Diverse teaching modalities
- Curriculum development
- Online course instructor

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PROFESSIONAL EXPERIENCE

I Am Working as an Assistant Professor from 27 May 2019 To at Present….

Head & Assistant Professor in Chemistry, Department of Chemistry.

SRI VIDHYA COLLEGE OF ARTS AND SCIENCE, VIRUDHUNAGAR.

TEACHING EXPERIENCE

MADURAI KAMARAJAR UNIVERSITY

- Handled the NMR -300MHz Instrument during the year ***2014*** to ***2019***

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EDUCATIONAL QUALIFICATIONS

- **C.M.S HIGHER SEC. SCHOOL. SRIVILLIPUTTUR.**

  (SSLC, May 2005. & HSC, May 2007.)

- **SRI KALISWARI COLLEGE, SIVAKASI. (MADURAI KAMARAJ UNIVERSITY)**

  (B. Sc., May 2010. & M.Sc., May 2013.)

- **MADURAI KAMARAJ UNIVERSITY, MADURAI.**

  (M.Phil. May 2014. & Ph. D., Jan. 2020.)

ADDITIONAL QUALIFICATION

- **Safety Matches & Fire Works. (Madurai Kamaraj University)**

(Diploma in Safety Matches & Fireworks, May 2008)

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ADDITIONAL SKILLS

- ✓ Familiar with Microwave Synthesizers.
- ✓ Experience in Column chromatography, flash column chromatography and preparative thin layer chromatography.
- ✓ Computer-based literature research technique (SciFinder & other online search).
- ✓ Chemistry related Software's thoroughly managed (Chembiodraw, Origin, NMR Software's, etc.)
- ✓ MS Office.

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DIRECTED INSTRUMENT

- ✓ NMR Spectrometer
- ✓ Mass Spectrometer
- ✓ UV Spectrometer
- ✓ Emission Spectrometer

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AREA OF INTEREST

Teaching

I have greatly enjoyed the teaching opportunities. I have had and look forward to teaching as part of my academic career. I want to teach because I like the opportunity to share my knowledge with my students and love the satisfaction that results from making them understand a difficult but interesting concept. Discussions with students have also enhanced my understanding of chemistry.

Research

Interested in developing novel synthetic methodologies for the synthesis of heterocyclic compounds of biological importance. Synthesis of newer compounds employing multicomponent domino reactions, total synthesis and catalysis.

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PRESENTATION IN CONFERENCE

Oral Presentations

- A Facile three-component tandem protocol for the synthesis of novel dihydro 1*H*-pyrazolo[3,4-*b*]pyridines.

  Muthumani Muthu and Raju Ranjith Kumar.

  International Conference on Chemical and Environmental Research, held on 07 January 2017, Jamal Mohamed College, Thiruchirappalli.

Poster Presentations

- A facile one-pot four-component domino protocol for the synthesis of novel cycloocta/cyclododeca-pyridine-3-carbonitrile-indole hybrids.

  Muthumani Muthu and Raju Ranjith Kumar

  The International Conference on "Frontier Areas in Chemical Technologies – 2017", 06–08 July, 2017, Alagappa University, Karaikudi.

- One-pot multi-component 1,3-cycloaddition strategy: synthesis of novel spiro indenoquinoxaline – pyrrolothiazole – indole hybrids.

  Muthumani Muthu and Raju Ranjith Kumar

  International Conference on Advancements and Challenges in Chemical Sciences, 2 & 3 February, 2018, Pachaiyappa's College, Chennai.

Participations

1. The National Workshop on "***CATALYSIS IN ORGANIC TRANSFORMATIONS***" Organized by School of **Chemistry**, Bharathidhasan University, Thiruchirappalli in association with Royal Society of Chemistry, South India section, Participated on ***20-21 October 2016***.
2. The National Two days' Workshop on "Nanomaterials Characterization by Electron Microscopy" Organized by Madurai Kamaraj University, Madurai 625 021, Participated on ***21-22 February 2018***.

3. The National Seminar on "***CATALYSIS & CATALYZED REACTIONS***" Sponsored by **UGC & Madurai Kamaraj University**, Organized by **the Department of Natural Products Chemistry**, Madurai Kamaraj University, Madurai – 625 021. Participated on *28th March 2014*.
4. The National Level Lecture workshop programme on "***PHARMACEUTICAL CHEMISTRY & DRUG DESIGN***" Sponsored by *Indian Academy of Science (IAS)-Bangalore, Indian National Science Academy (INSA)-New Delhi & National Academy of Science-Allahabad*, Organized by Post Graduate Department of Pharmaceutical Chemistry & Department of Chemistry, Sri Kaliswari College, Sivakasi, Participated on *11th & 12th February 2008*.
5. The International Webinar on ***"RECENT TRENDS IN CHEMISTRY"*** organized by The PG & Research center of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Participated on *18th September 2021*.

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PAPER PUBLICATIONS

1. Synthesis of indole–cycloalkyl[*b*]pyridine hybrids *via* a four-component six-step tandem process. *Beilstein J. Org. Chem.* **2018,** *14*, 2907–2915.

2. A One-Pot Multicomponent 1,3-Dipolar Cycloaddition Strategy: Combinatorial Synthesis of Dihydrothiophenone-Engrafted Dispiro Hybrid Heterocycles. *ACS Comb. Sci*. **2017**, *19*, 308−314.

3. Multicomponent Dipolar Cycloaddition Strategy: Combinatorial Synthesis of Novel Spiro-Tethered Pyrazolo[3,4-*b*]quinoline Hybrid Heterocycles. *ACS Comb. Sci*. **2016**, *18*, 262−270.

4. Efficient Green Protocol for the Synthesis of Novel Dihydroindeno[1,2-*b*]pyrroles. *Synth. Commun.* **2015**, *45*, 1137-1144.

5. Microwave-assisted chemoselective synthesis of novel pyrazolo[3,4-b]thieno[3,4-e]pyridines: substitution induced axial chirality. *Tetrahedron Lett*. **2014,** *55*, 5805–5807.

6. Ethyl 6’-cyano-7’-(*p*-tolyl)-1’,6’,7’,7a’-tetrahydro3’*H*-spiro[indeno[1,2-*b*] quinoxaline-11,5’-pyrrolo[1,2-*c*]thiazole]-6’-carboxylate. *https://doi.org/10.1107/S2414314619000105*. *IUCrData,* 2019, *4(1),* 190010.

7. 6′-(3-Bromophenyl)-7′-nitro-1′,6′,7′,7a'-tetrahydro-3′*H*-spiro[indeno[1,2-*b*] quinoxaline-11,5′-pyrrolo[1,2-*c*]thiazole]. *https://doi.org/10.1107/S2414314618002389*. *IUCrData,* 2018, *3(2),* 180238.

8. 7′-Nitro-6′-phenyl-1′,6′,7′,7a′-tetrahydro-spiro[indeno[1,2-*b*]quinoxaline-11,5′-pyrrolo[1,2-*c*][1,3]thiazole]. *https://doi.org/10.1107/S2414314617013050. IUCrData,* 2017, *2(9),* 171305.

9. Crystal structure, Hirshfeld surface analysis, DFT calculations and molecular docking studies on pyridine derivatives as potential inhibitors of NAMPT. *https://doi.org/10.1016/j.cdc.2019.100262. Chemical Data Collections,* 2019, *23,* 100262.

10. Azafluorene derivatives as inhibitors of SARS CoV-2 RdRp: Synthesis, physicochemical, quantum chemical, modeling and molecular docking analysis. Volume 1220, 15 November 2020, 128741. *https://doi.org/10.1016/j.molstruc.2020.128741*.

11. Azaphenantherene derivatives as inhibitor of SARS CoV-2 M^{pro}: Synthesis, physicochemical, quantum chemical and molecular docking analysis. Volume 28, August 2020, 100470. https://doi.org/10.1016/j.cdc.2020.100470
12. Azaphenantherene derivatives as inhibitor of SARS CoV-2 M^{pro}: Synthesis, physicochemical, quantum chemical and molecular docking analysis. Volume 28, August 2020, 100470. *https://doi.org/10.1016/j.cdc.2020.100470.*

PERSONAL INFORMATION

Father's Name	: V. Muthumani
Mother's Name	: M. Murugeswari
Age	: 35 (10.03.1990)
Gender	: Male
Nationality	: Indian
Religion	: Hindu
Marital Status	: Married
Languages known	: Tamil, English

DECLARATION

Hereby I declare that the above provided information is correct and true to my knowledge. And the certificates enclosed will evict the declared data.

Thank you

Yours sincerely

(Dr. M. Muthu)