



Dr. M.R. Jayapal(Stephen Stanley Jayapal)

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Summary: Chemical research scientist with 13 years of experience in gamut of organic chemistry & analytical chemistry with special focus in the development of Research & Development for industrial chemicals, pesticides and Food & farm products. Genotoxic impurities profiling testing & method development,

Area of Interest: New product development for Pharma applications, synthesis, new process development & evaluation of materials for product applicability, suitability in niche areas of applications & uses.

Present Position

- Scientist, Group Head and Troubleshooter of Organic chemical reactions in Primodia chemical and pharmaceutical research development center Hyderabad 2021 to till now
- Talented Young scientist (TYPS) in Yancheng Institute of Technology (China) 01 May 2019 to 2021 and Visiting Scientist in Indian Institute of Chemical Technology, Hyderabad India
- Postdoctoral Research Scientist (Organic Chemistry) In National University of Cordoba Argentina (South America) (1 JULY 2015 to 30 March 2019)
- Visiting Scholar and Chemist in DrBio Macs Pharma and Research Professor in Chemistry and Head Narasaraopet Engineering College, Narasaraopet Guntur. (7.11.2013 to 30.04.2015)
- Visiting Scholar and Chemist in DrBio Macs Pharma Research Professor in Chemistry in Institute of Aeronautical Engineering, Affiliated to (JNTU-Hyderabad), A.P., India. (4.7.2011 to 6.11.2013)

Previous Position

- 17.07.2006 To 30.09.2010 Research scholar (Ph.D.) and Teaching Assistant in S.V. University, Tirupati, A.P., India
- 01.10.2010 To 30.06.2011 Research Assistant and Teaching Assistant in S.V. University, Tirupati, A.P., India

Educational Qualification Details:

- Ph.D. (Synthetic Organic Chemistry) Sri Venkateswara University, Tirupati, India (2010).
- M. Sc. (Organic Chemistry) Sri Venkateswara University, Tirupati, India (2005).
- B.Sc. (Chemistry, Zoology, Botany) Govt. College, Nandyal., Kurnool (Dist), India (2001)

Research Interes

- Synthesis, Characterization of Organic Materials Compounds, Biological and Industrial applications for API and Explosive Industries
- Synthesis, Characterization of materials Compounds in Pharma applications
- Synthesis of Material Compounds Biological and Applications.

- Synthesis of organic compounds and by using flow chemistry instrumentations
- Extraction of Nanoparticles from Plants
- Nano biomedicine, Nanotechnology, Analytical chemistry, Environ Analytical chemistry,
- Synthesis of Nanoparticles, Biological and Using Different Instrumentations Application.
- Drugs, Pesticides and Organic compounds Analysis by GC and HPLC Instrumental Techniques.
- Synthesis of Organometallic Compounds and Biological, Applications
- Studies of Reaction mechanisms and their applications

Key Responsibilities:

Synthesis, purification, and characterization of chemistry intermediates.

Ability to lead 15-30 researchers

Deliver small to large quantities of lead novel chemical entities for drug discovery.

Work collaboratively in a team to drive chemistry projects forward.

Responsible for safe laboratory practices.:

Excellent knowledge of basic and advance organic chemistry.

Very good knowledge of functional group conversion and multiple step synthesis.

Knowledge route-designing of project.

Excellent problem-solving ability.

Good expertise in handling various trouble-shooting.

Good Knowledge of Organic chemistry, Material chemistry.

Excellent trouble-shooting skills in purification and extraction.

Good Knowledge of (Prep)-HPLC and analysing NMR, IR, Mass Spectrometry and elemental analysis data.

Excellent knowledge of writing and reviewing electronic lab notebooks; and writing reports, patents and manuscripts.

Expertise in literature search using Reaxys/Scifinder et.

Always adhere to safe laboratory practices.

Multi-tasking i.e. good in chemical ordering and maintaining lab

inventory. Enthusiasm to create a dynamic research environment.

Always stretch when project challenge

Increases. Excellent communication and

presentation skill. Attention to the details.

Ability to motivate team to work.

Experienced in these Synthetic organic research areas and involved in Optimized Organic Chemical Reaction Procedures and Interested Research Areas

Synthetic Organic Chemistry

- Synthesis of Dimethyl hydantoin
- Synthesis of Pyrazoles and Isoxazoles
- Synthesis of Ethyl Cellulose
- Synthesis HBIW and HBIN
- Synthesis of Ferrocenes
- Synthesis of Nitro Carboxylic, Nitro ester, and Nitro propanol
- Synthesis of ADN and GUDN

PhD Experience

- Well experienced in interpretation of NMR Mass, IR, UV spectral studies. Since Seven years research experience I have learned and acquired expertise in the preparation and investigations made on synthesis of compounds (Chalcones, Chromones, 1,5, diketones, Isoxazolins, Pyrazolins, Thiazolidines) for Electroanalytical applications by using DC Polarography, Differential pulse polarography, Cyclic Voltammetry, Stripping voltammetry, Folliculometry. For analysis purpose I have used such as UV, IR, NMR, MASS, Elemental Analysis and CL 362 Polarographic Analyzer systematically. I have so far published 30 papers; Six more papers have been communicated and presented Eight Papers in National conferences.. The details are presented below. I submitted my PhD degree in Chemistry based on the thesis entitled: "Synthesis characterization Biological and Electrochemical behaviour of Chalcones" under the supervision of Prof. N.Y. Sreedhar, Dept. of Chemistry, S.V. University, Tirupati, and India.

References:

Books

1. Text Book of Heterocyclic compounds and biological applications (2018) Science Publishers
ISBN 9781940366760 (USA)
 2. Advanced Applications of Material science and Engineering (ISBN 9789355060723
) HSR Publications
 3. Advanced Synthetic Organic Material Applications in (ISBN -9789390847907KD) Publications
 4. Synthesis of Advanced Materials and Biological Applications (ISBN 9789394570009) KDP Publications
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1. A Text book of Heterocyclic compounds and Biological applications (2018) Science publishers (USA) ISBN 9781940366760 USA Edited By M.R. Jayapal
 2. Two Step Electrochemical Deposition Of Palladium And Polyaniline On Graphene Dispersed Glassy Carbon Electrode For Electrochemical Analysis Of Pesticide M. Sivaprasad, N.Y. Sreedhar, M.R. Jayapal, Li Yang, Hongwei Advanced Material letters, Volume 8, Issue 1, Page 30-36, Year 2017 DOI: 10.5185/amlett.2016.6912
 3. Synthesis And Characterization Of Novel Phosphorylated Derivatives Of Zidovudine: Anticancer Activity Against Human Breast Cancer Cell Lines (Mcf7) Prasanth Manda and M.R. Jayapal* heterocyclic letters Vol.

4. Simultaneous Determination of V (V) and Co (II) as (S)-5-Methoxy-2-[[[4-Methoxy- 3, 5- Dimethyl-2-Pyridinyl-Methyl]Sulfinyl]-1H-Benzimidazole Using Derivative Spectrophotometry photometry Ranganath, P Venkataramana, M.R. Jayapal pages 1-6 International Journal of Pharmacy and Chemistry
5. Synthesis and biological evaluation of Novel 1, 3-diphenyl-2-propen-1-ones having Anti-microbial and Anti-inflammatory Activity Shyam Sunder K, Spandana C, Jayapal Maleraju *, Srinivas, Heterocyclic letters Vol. 4, Issue. 2, 2014
6. Shyamsunder.Kand, Jayapal.Maleraju, A Synthesis of Novel N-(3-Chloro-4- Fluorophenyl)- 2- (5-((3-(4-Hydroxy-2, 2-Dimethyl-2, 3-dihydrobenzofuran-5-yl)-1- Phenyl-1H- Pyrazole- 4-yl) Methylene)-4-Oxo-2-Thioxothiazolidin-3-yl) acetamides having Anti-inflammatory Activity (Drug Invention Today 2013 Dec 288- 295)
7. Shyam sunder.K, Sowjanya.S, Jayapal., Sandeep Reddy.CH, Spandana.C, Srinivas.A : Synthesis and biological evaluation Of novel 5- benzylidene-[3 (diethyl amino) methyl]- thiazolidine-2, 4-dione derivatives having antidiabetic activity, International Journal of Pharmaceutical Sciences Review and Research.(Impact 1.7) 2013 September- October 5, Page No, 23-29
8. M.Sivaprasad, M.Dhananjayulu, Ch.Swarupa and M.Seenu naik, M.R.Jayapal and N.Y.Sreedhar: Electrochemical behavior of lenalidomide and its determination using glassy carbon electrode modified with polyaniline and multi-walled carbon nanotubes in pharmaceutical, human urine and serum samples. International Journal of Pharmaceutical Sciences Review and Research. (Impact 1.7) 2013 November - Decemember. Vo.1 Pages 1-7
9. Santosh Kumar Srivastava, Ch.Ramesh, N.Shiva Prasad, Jayapal.Maleraju, K.Shyam Sunder, RP HPLC method development and validation of Chloramphenicol Eye and Ear Drop International Journal of Biopharmaceutics 2013 4(1166-174)
10. Jayapal .Maleraju, and N.Y. Sreedhar :. Synthesis of chalcones by a claisen – schmidt reaction using magnesium hydrogen sulphate as a catalyst under solvent – free condition, Hetero Cyclic Letters Vol.2: (3), 2012.
11. M.R.Jayapal and N.Y Sreedhar:.. Synthesis 2,4-dihydroxy substituted chalcones using silica sulfuric acid reagent under solvent free condition. Asian journal of pharmaceutical and clinical research; JAN 2011). Impact (0.8)
12. M.R.Jayapal, and N.Y.Sreedhar:.. Synthesis and Characterization of 2,4-dihydroxy substituted Chalcones Using SOCI₂/EtOH, International Journal pharmacy and Pharmaceutical Sciences (Issue 3 Volume 1 2011) (impact 1.1)
13. M.R.Jayapal and N.Y Sreedhar: Anhydrous K₂CO₃ as catalyst for the synthesis of chalcones under microwave irradiation. Journal of Pharmaceutical Sciences and Research. Vol.2 (10), 2010, 644-647
14. N.Y.Sreedhar, K.Sreenivasa Prasad, M.Sankarnayak, M.R.Jayapal and K. Chandra Mohan.: Determination of Sorafenib in spiked Human Urine by Differential Pulse Polarography at Dropping Mercury Electrode. (GJSFR volume 12 Issue 6 version 1 October 2010)
15. M.R.Jayapal, K.Sreenivasa Prasad and N.Y.Sreedhar: Synthesis and Characterization of 2,6-dihydroxy substituted Chalcones Using PEG-400 as a Recyclable Solvent. (Journal of Pharmaceutical Sciences

Name: Jayapal Maleraju (Fullname)

Gender: Male

Father'sName: Yesuratnam

Nationality: Indian

Date of Birth: June 3, 1981

Qualification: M.Sc.,

PhDLanguages Known: English,

Spanish

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Declaration:

I hereby declare that the above particulars furnished are correct and true to the best of my knowledge.

M.R.Jayapal (Stephen .S.Jayapal)