CURRICULUM VITAE

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Personal Details

Sex: Male
Nationality: Indian
Marital Status: Married

Linguistic Skills

- English, Tamil (Native)

Objective

Looking forward to work in a progressive organization in the challenging position for the advancement of self and institution by exerting full strength of knowledge, logic and hard work.

Research Skills

- Synthetic Route Scouting and Retrosynthesis
- Multistep synthesis
- Cross-Coupling Reactions

Academic Qualification

Course	Institution	Year of Passing
Ph. D. Organic Chemistry	Department of Chemistry VIT University, India.	2022
M.Sc Chemistry	Jamal Mohamed College Bharathidasan University	2002
B.Sc Chemistry	Periyar E.V.R College, Bharathidasan University.	2000

Professional Experiences

***Organization*-I**

Name : TCG Life Science
Designation : Research Scientist
Duration : Aug 2021 to till date

***Organization*-III**

Name : VIT University
Course : Ph.D organic chemistry
Duration : 2014 - 2022

***Organization*-II**

Name: M/S Syngene International limited (SIL)
A Biocon Company, Bangalore
Webpage: www.syngeneintl.com
Designation: Senior Scientist
Duration: May 2007 to Aug 2012 (5 years 4 months)

Professional Experiences

***Organization*-IV**

Name: Leonid Chemicals, Banglore

Designation: Synthetic Chemist

Duration:Oct 2006 to May 2007 (0 year 9 months)

***Organization*-V**

Name: Enviro Control Associates India Pvt. Ltd

Designation: Senior Chemist

Duration: Apr 2005 to Sep 2006

***Organization*-VI**

Name: Aarthi Package Drinking Water

Designation: Quality Control

Duration: Dec 2003 to Dec 2004

***Organization*-VII**

Name : TNPL Trichy

Designation : Chemist

Duration : Apr 2002 to Dec 2003

Reactions Handled

- Expertise in the synthesis of various heterocyclic compounds viz., derivatives of pyridine, morpholine, piperidine, pyrimidine, quinoline, pyrrole, and isatine.

  Acid-amine coupling, Suzuki coupling reactions of various boronic acids with aryl halides, aryl phenols, and aryl triflates using various palladium catalysts, Suzuki - Miyaura coupling. Negishi coupling reactions of alkyl and aryl halides with aryl triflates using palladium catalysts. Heck Coupling, Stille Coupling, Simmons–Smith reaction, Buckwald coupling, bromo to ester using carbon monoxide and Pd catalyst bromo to aldehyde.

- Oxidation (Jones oxidation and Swern oxidation) and cyclization, condensation, sulphonation & halogenations reactions, protection and deprotection of amines, alcohols, phenols, etc. Friedel-crafts acylation and alkylations, catalytic hydrogenation reactions, etc. Mitsunobu reaction

- Sand Meyer Reaction, Knovenegal Condensation, Metal hydride reductions, Reductive amination, Ozonolysis, Microwave reactions, Cyanation using NaCN, KCN, $Zn(CN)_2$

  Catalytic hydrogenation, Michel Addition, Pyrophoric substances like Palladium on carbon, $LiAlH_4$, NaH, BuLi, Sodium metal, LHMDS, LDA, DIBALH, Diazomethane preparation.

Professional Responsibilities-Industry

- 13+ years of academia and industrial experience in the field of organic chemistry and medicinal chemistry.
- Involved in various research projects which are related to organic and pharmaceuticals.
- Experienced as medicinal chemist synthesizing of small biologically active heterocyclic compounds such as Pyrimidine, Pyrazole, benzimidazole, Thiazole, Pyridine, Pyrrole, Oxazole, Pyrazine, Isoimidazole, Quinoline, Phenothiazine derivatives.
- Isolation and purification of organic compounds by column chromatography, thin layer chromatography, Vaccum distillation, Preparative HPLC etc.
- Experience in handling air-sensitive reagents, isolation and structural elucidation or organic compounds.
- Experience in handling hazardous chemicals, cryogenic and pyrophoric reactions
- Application of various naming reactions for multi-step synthesis.
- Experience in characterization and analysis of the target molecule with the aid of the analytical techniques like HPLC, GC, NMR, GC-MS, LC-MS etc.
- Experiences in handling High-Pressure reactions
- Literature survey of pharmaceutical interested compounds, synthesis, and isolation.
- Literature search and knowledge of chemdraw, Reaxys and SciFinder. Proper documentation of laboratory experiments, results and supporting data
- Thorough knowledge in proper handling of laboratory equipments, storage of sensitive chemicals/reagents and laboratory waste disposal.
- Published four articles in SCI journals.

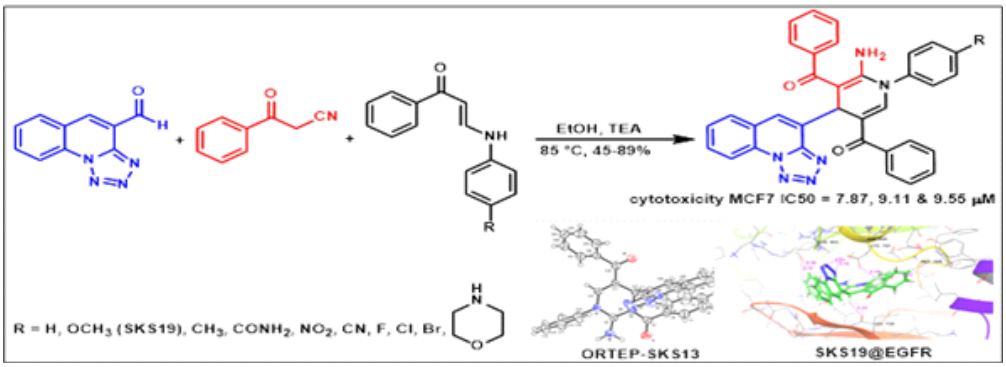
Conferences and Poster Presentation

- International Conference on Chemical Sciences and Nano-materials (ICCSN 2019), VIT Vellore Campus, 7-9th March 2019.
- National Symposium in Chemistry for ECRSI-NSC-26, VIT Vellore Campus, 7-9th Feb 2020.
- Computational Approach for experimental chemist webinar held in VIT Chennai, June 2020.
- The International Virtual Conference held in VIT Chennai, July 2020. The title of the conference is Recent Advance in Organic Medicinal and Biological Chemistry RAOMBC-2020.
- The International Virtual Conference held in VIT Chennai, August 2020. The title of the conference is Innovations in Chemical Sciences-2020. An International Meet for Quality and Quantity.

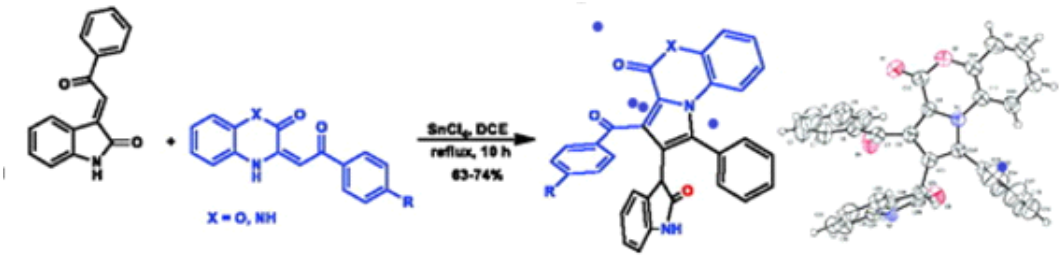
Publications

1. **Suresh Selvendran**, Brindha J, Vasavi CS, PunnagaiMunussami, NithyaPattusamy, Kaushik Chanda Balamurali MM, and Saravanakumar Rajendran, "Biological Evaluation of Synthesized *N*-CinnamoylPhenothiazine Derivatives"*Chemistry Select*, **2018**, *3*, 13063-13069.

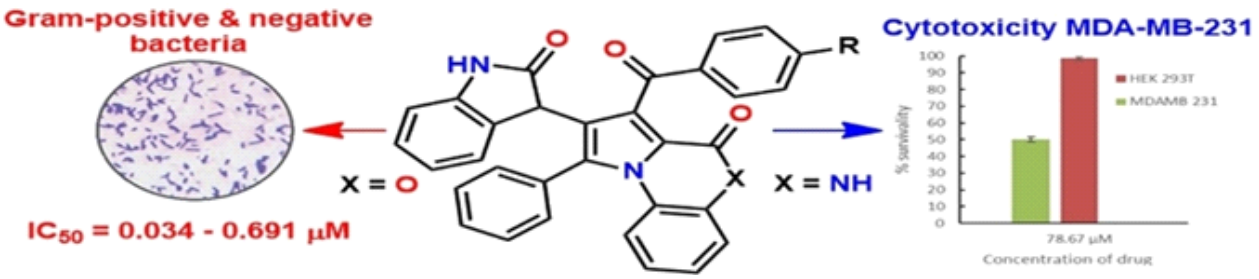
2. **Suresh Selvendran**, Souvik Das, Kamaran Waidha, Ritwik Maity, Biswarup Basu, Saravanakumar Rajendran "Multi-Component approach for synthesis of quinolinyl-1,4-dihydropyridines, evaluation of cytotoxicity against MCF7 and molecular docking studies" *Chemistry Select*, **2020**, *5*, 10501-10510.



3. **Suresh Selvendran**, SaravanaKumar Rajendran "Lewis Acid-promoted Synthesis of Highly Substituted Pyrrole-Fused Benzoxazinones and Quinoxalinones". *Synthetic Communications*, **2021**, *51*, 437-445.



4. **Suresh S**, Souvik Das, Kamran Waidh, Swati V, Balamurali Biswarup Basu, Saravanakumar Rajendran. Pyrrole-Fused Benzoxazinones and Quinoxalinones: In-vitro Cytotoxic Effect and Molecular Dynamic Simulation against MDA-MB-231 and Antibacterial activity. *ChemistrySelect*, **2021** Accepted



References

References-Academics

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References-Industry

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Syngene International Limited,
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Dr. Saravanakumar
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