Bharathiar University

State University I "A++" Grade by NAAC I 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr T SURESH

Assistant Professor
Department of Chemistry

Bharathiar University

Tamil Nadu
E-mail: suresh@buc.edu.in
Phone: 7829886467
Office Number: 04222428314

Research Area

- Organic Synthesis and its real time applications
- Natural Products Chemistry

Courses Teaching

- Organic Chemistry
- Bio-Organic Chemistry
- Natural Products Chemistry

Research Experience: 20

Teaching Experience: 8

Research Credentials (as on August 2025 – Source: Google scholar)

H-index: 15 Citations: 897 i10-index: 23

Publications

International Journals: 63 Books/Chapters: 4

Career

Other Institutes

1. Designation : Post Doctoral Fellow
Institution Name : Korea University, South Korea
Period : June 2005 - May 2007

2. Designation : Post Doctoral Fellow
Institution Name : Hanyang University, South Korea
Period : July 2004 - March 2005

Education

Ph. D.
Subject : Chemistry
Institution : BHarathiar University
Affiliated University : Bharathiar University
Year of Award : May 2004

M. Sc.
Subject : Chemistry
Institution : Bharathiar University
Affiliated University : Bharathiar University
Year of Award : April 1999

B. Sc.
Subject : Chemistry
Institution : Srivasavi College, Erode
Affiliated University : Bharathiar University
Year of Award : April 1997

Dr T SURESH , Assistant Professor , Department of Chemistry

Projects
National Level
Ongoing - completed - 2

Research Guidance
Completed
Ph.D. - 1
On Going
Ph.D. - 3

Institutional Responsibilities

Faculty In-Charge for Nuclear Magnetic Resonance spectrometer (NMR) at Central Intrumentation Centre (CIC)
Period :Aug 2019 - Aug 2025
Nature of Responsibility :NMR opeartions

Visits

1. Post Doctoral Felow -)
2. Research Professor and Post Doctoral Fellow -)
3. Industrial visit -)

Publications

International Journals - 63

63. Design, Synthesis and Evaluation of Nitroquinoline fused Thiosemicarbazones for Anti-Cancer Activity on Human Cervical Cancer Cell Lines

Chemistry Select,2025,10, e202405057. (August 2025)
Vandana Nandakumar, Sentamil Selvi Ramasamy, Kaviyarasu Adhigaman, Amsaveni Sundarasamy, Deepak Arumugam, Shankar Ramasamy, Raju Vivek and Suresh Thangaraj

62. DESIGN AND SYNTHESIS OF 8-NITROQUINOLINE AZINE D-?-A MODULE CHEMOSENSORS: FLUOROGENIC DETECTION OF SARIN GAS MIMIC- DCP

Talanta Open, 100508. 2025, (July 2025)
Sentamil Selvi Ramasamy; Kaviyarasu Adhigaman; Vandana Nandakumar; Akilesh Muralidharan; Shankar Ramasamy; SURESH T

61. Investigation of 3-Arylidene-2,3-dihydro-8-nitro-4-quinolone Di-Spiro Analogs: Structural Elucidation, In-Silico Molecular Modeling and In-Vitro Cytotoxicity Against A549 Lung Cancer cells

Journal of Molecular Structure,1348, 1, 2025, 143451 (June 2025)
A. Kaviyarasu, Sentamil Selvi Ramasamy, Vandana Nandakumar, Gothandam Kodiveri Muthukaliannan, Vishnu Priya Rakkappan, Seenivasan Vellaisamy and Saravana Kumar M,Suresh Thangaraj,

60. In-silico exploration: unraveling the anti-cancer potential of 8-nitroquinoline hydrazides

Journal of Molecular Structure,1321,5,140218,2025 (February 2025)
Sentamil Selvi Ramasamy, Kaviyarasu Adhigaman Vandana Nandakumar, Amsaveni Sundarasamy, , Sundharrajan Jagadeesan, M. Saravanakumar, Jan Grzegorz Ma?ecki, Suresh Thangaraj*

59. Exploration of Thiosemicarbazone -Quinolone Hybrids over In-Silico, Antioxidant, and Zebrafish Embryo Toxicity Studies

Journal of Molecular Structure,1319,1 139513,2025 (January 2025)
Kaviyarasu Adhiyaman,Vandana Nandakumar,Amsaveni Sundarasamy,Sentamil Selvi Ramasamy,Selvaraj Shyamsivappan, M. Saravanakumar, Srinivasan Palaniselvam, Saravanan Ramachandran, Suresh Thangaraj

58. Phytochemical investigations and ?-Glucosidase inhibitory activity of Adenanthera pavonina seeds

Journal of Herbs, Spices & Medicinal Plants, 31(2), 131–142. (January 2025)
Amsaveni Sundarasamy, Chandra Prakash Kumarasamy, Sentamil Selvi Ramasamy, Gothandam Kodiveri Muthukaliannan and Suresh Thangaraj

57. Investigating the Antiproliferative Activity of Novel 4-Chloro-8-Nitro-1,2-Dihydro-3-Quinoline Acylhydrazones on Human Cervical Cancer Cell Lines

Chem. Biodiversity 2025, 22, e202401636 (January 2025)
Vandana Nandakumar, Sentamil Selvi Ramasamy, Kaviyarasu Adhigaman, Deepak Arumugam, Shankar Ramasamy, Raju Vivek, Shunmuganarayanan Athimoolam and Suresh Thangaraj

Dr T SURESH , Assistant Professor , Department of Chemistry

56. Nitroquinolone Fused Salicyl and Naphthyl Hydrazone Fluorescent Probes for the Detection of Fe3+and Pb2+ Ions Pages 1-14 Publisher Springer US

Journal Journal of Fluorescence ,1-14, 2024 (July 2024)
Vandana Nandakumar, Sentamil Selvi Ramasamy, Kaviyarasu Adhigaman, Narmatha Ganesan, Divyakaaviri Subramani, Shankar Ramasamy, Raju Nandhakumar, Suresh Thangaraj ,

55. Anti-proliferative activity of nitroquinolone fused acylhydrazones as non-small cell human lung cancer agents

RSC Medicinal Chemistry, 2023, 14, 1331 - 1343 (August 2023)
Vandana Nandakumar, Amsaveni Sundarasamy, Kaviyarasu Adhigaman, Sentamil Selvi Ramasamy, Manickam Paulpandi, Gothandam Kodiveri Muthukaliannan, Arul Narayanasamy and Suresh Thangaraj

54. Indian Traditional Medicine for COVID-19

Current Traditional Medicine 9 (6), 94-118, 2023 (February 2023)
Amsaveni Sundarasamy, Suresh Thangaraj*, Thamarai Selvi Senniappan and Gothandam Kodiveri Muthukaliannan

53. An updated Review on Phytochemical and Pharmacological Studies of Adenanthera pavonina Linn

Current Trends in Biotechnology and Pharmacy, Vol. 16, 1,153-162, 2022 (September 2022)
Amsaveni Sundarasamy , Thamarai Selvi Senniappan and Suresh Thangaraj

52. Convenient Synthesis of Orixiarine: Pharmacological and Biological Perspectives

Current Topics on Chemistry and Biochemistry Vol. 4, 23 July 2022 , Page 68-73 (March 2022)
T. Suresh K. Velmurugan P. S. Mohan R. Nandhakumar

51. New N-(3'-acetyl-8-nitro-2,3-dihydro-1H,3'H-spiro[quinoline-4,2'-[1,3,4]thiadiazol]-5'-yl) acetamides Induced Cell death in MCF-7 cells via G2/M Phase Cell Cycle Arrest

New Journal of Chemistry, 2022, 46, 2817 - 2828 (September 2021)
Selvaraj Shyamsivappana, Raju Vivek , Thangaraj Suresh , Palanivel Naveen , Adhigaman Kaviyarasu , Sundarasamy Amsaveni , Shunmuganarayanan Athimoolam , Palathurai Subramaniam Mohan

50. New alkali tolerant ?-galactosidase from Paracoccus marcusii KGP - A promising biocatalyst for the synthesis of oligosaccharides derived from lactu lose (OsLu), the new generation prebiotics

Bioorganic Chemistry, 2021,115, 105207 (September 2021)
Kalathinathan K. Pooja, Pulicherla Krishnakanth, Sain Avtar, Sankaranarayanan Gomathinayagam, Rama Jayaraj, Suresh Thangaraj, Kodiveri M. Gothandam

49. Novel phenyl and thiophene dispiro indenoquinoxaline pyrrolidine quinolones induced apoptosis via G1/S and G2/M phase cell cycle arrest in MCF-7 cells

New J. Chem., 2020, 44, 35, 15031-15045 (July 2021)
Selvaraj Shyamsivappan, Arjunan Saravanan, Nandakumar Vandana, Thangaraj Suresh, Shanmugam Suresh, Raju Nandhakumar, and Palathurai Subramaniam Mohan

48. Novel Quinoline-Based Thiazole Derivatives for Selective Detection of Fe3+, Fe2+, and Cu2+ Ions ,

ACS Omega 2020, 5, 42, 27245-27253 (September 2020)
Selvaraj Shyamsivappan, Arjunan Saravanan, Nandakumar Vandana, Thangaraj Suresh, Shanmugam Suresh, Raju Nandhakumar, and Palathurai Subramaniam Mohan

47. Application of real sample analysis and biosensing: Synthesis of new naphthyl derived chemosensor for detection of Al3+ ions

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 241,118684 (2020) (July 2020)
A Saravanan, S.Shyamsivappan, Naveen Kumar K, T Suresh , N.Maroli,N.Bhuvanesh, P. Kolandaivel , P S Mohan

46. A Novel 8-Nitro Quinoline-Thiosemicarbazone Analogues Induces G1/S & G2/M Phase Cell Cycle Arrest and Apoptosis through ROS Mediated Mitochondrial Pathway

Bioorganic Chemistry, 97,103709 (2020) (February 2020)
Selvaraj Shyamsivappan, Vivek Raju, Arjunan Saravanan, Thangaraj Arasakumar, Suresh Thangaraj, Athimoolam Shunmuganarayanan, Palathurai Subramaniam Mohan

Dr T SURESH , Assistant Professor , Department of Chemistry

45. Regio- and Stereoselective Synthesis of Dispiro 8-Nitroquinolone Analogues and Their Cytotoxic Properties Against Human Cervical Cancer Cells HeLa,

Journal of Indian Chemicals Science, 131, 81-94 (2019) (August 2019)
P Kalaivani, H Puschmann, M V Kaveri, T Suresh and R Prabhakaran,

44. A Yb(OTf)3 -catalyzed, convergent synthesis of new pyranyl and chromenyl substituted quinolines through eco-friendly approach.

Journal of Heterocyclic Chemistry, 56,11,2986-2992(2019) (June 2019)
K Chandraprakash, S Amsaveni, M Sankaran, C Uvarani , Athar ata, P S Mohan and T Suresh

43. An efficient new dual fluorescent pyrene based chemosensor for the detection of bismuth (III) and aluminium (III) ions and its applications in bio-imaging

Talanta, 198, 244-256 (2019) (January 2019)
A Saravanan, S Shyamsivappan,T Suresh, G Subashini, K Kadirvelu,N Bhuvanesh,R Nandhakumar, P S Mohan

42. Microwave- assisted synthesis of dihydrodibenzophenanthroline and its derivatives using a self-catalyzed Friedlander reaction,

Journal of Heterocyclic Chemistry, 55,12, 2766-2771 (2018) (October 2018)
K Chandraprakash, N Vandana, M Sankaran, C Uvarani , Athar ata, P S Mohan and T Suresh

41. Selective Fluorescence Chemosensor: Pyrene motif Schiff base derivative

Journal of Photochemistry & Photobiology A: Chemistry, 364, 424-432 (2018) (June 2018)
A Saravanan, G Subashini, S Shyamsivappan, T Suresh, K Kadirvelu, N Bhuvanesh, R Nandhakumar, P S Mohan

40. A Total and Convenient Synthesis of Orixiarine

International Journal of Organic Chemistry, 3, 48-50, (2013) (September 2013)
T.Suresh, K.Velmurugan, R. Nandha Kumar and P.S. Mohan

39. Novel silane-substituted benzimidazolium iodide as gel electrolyte for dye-sensitized solar cells,

Electrochimica Acta, 54, 18, 4365-4370 (2009) (May 2009)
Jae Pil Lee, Beomjin Yoo, T. Suresh, Moon Sung Kang, R. Vittal, and Kang-Jin Kim

38. Antidiabetic effects of scoparic acid D isolated from Scoparia dulcis in rats with streptotocin-induced diabetes

Natural Product Research, 23,16,1528-1540 (2009) (March 2009)
M.Latha, L. Pari,K.M. Ramkumar, P.Rajaguru, T.Suresh, T.Dhanabal, S.Sitasawad and R. Bhonde

37. A Novel approach to 12-Chloro-3-thio-4(H)-Quino-diazozines via Vilsmeier Haack Reaction

Indian J Chem, 46B, 995-1000 (2007). (September 2007)
R. Nandha Kumar, T. Suresh, T. Dhanabal, and P. S. Mohan

36. Effects of pH of gel electrolytes incorporated with 3-aminopropyltrimethoxysilane on the performance of a quasi-solid state dye-sensitized solar cell

Solar Energy Materials and Solar Cells, 91, 1313-1318 (2007). (June 2007)
T. Suresh, James Joseph, Kyung Mo Son, R. Vittal, Jiwon Lee, and Kang Jin Kim

35. Synthesis, antimicrobial activities and cytogenetic studies of newer diazepino quinoline derivatives via Vilsmeier Haack reaction,

European Journal of Medicinal Chemistry, 42 1128-1136 (2007) (May 2007)
R. Nandhakumar, T. Suresh, A.L. Calistus Jude, V. Rajeshkannan, P.S. Mohan

34. Phytochemical and Antimicrobial Study of an Antidiabetic plant: Scoparia dulcis L.

Journal of Medicinal Food, 9(3), 391-394 (2006). (September 2006)
M.Latha, K.M. Ramkumar, L. Pari, P.N.Damodaran, V.Rajeshkannan and T.Suresh

33. Structural Elucidation Using 1H-NMR, 13C-NMR, and Mass Spectroscopic Study of 3-(Ethoxy-hydroxy-methyl)-quinolin-2(1H)-one and 2-Benzyloxy-3-formylquinoline

Spectroscopy Lett., 39(2), 117-126 (2006). (September 2006)
T. Dhanabal, T. Suresh, P.S. Mohan

Dr T SURESH , Assistant Professor , Department of Chemistry

32. Synthesis of new 1, 10-diethoxy-1H-pyrano[4,3-b]quinolines and their antibacterial studies

Indian J Chem, 45B, 523-525 (2006) (September 2006)
T. Dhanabal, T. Suresh, P.S. Mohan

31. Synthesis of Pyranoquinoline alkaloids via (4+2) cycloaddition reaction

Heterocyclic Commun, 11(1), 79-84 (2005) (September 2005)
T. Suresh, R. Nandha Kumar, T. Dhanabal, and P. S. Mohan

30. Synthesis, characterization and antimicrobial activities of fused 1,6-naphthyridines

Indian J Chem., 44B, 2375-2379 (2005) (September 2005)
T. Suresh, T. Dhanabal, R. Nandha Kumar and P. S. Mohan*

29. Synthesis of 6-methylbenzo(b)pyrido[3,2-f][1,6]naphthyridines from 4-chloro-2-methylquinoline

Chemistry of Heterocyclic Compounds, 41(6), 778-781(2005) (August 2005)
T. Suresh, R. Nandha Kumar and P. S. Mohan

28. A conveniet one-pot synthesis of benzopyrimido[1,8]naphthyridines by Knoeve-nagel condensation

Chemistry of Heterocyclic Compounds, 40(11),1490-1492 (2004). (November 2004)
R. Nandha Kumar, T. Suresh, P. S. Mohan

27. Structural elucidation, 1H-NMR and Mass spectroscopic study of novel 4-amino-6-oxo, 4a, 5, 12, 12a tetrahydro (7H), benzopyrano[3,2-c]quinoline-6-one

Spectroscopy Lett, 37(6), 581-585 (2004) (September 2004)
R. Nandha Kumar, T. Suresh and P. S. Mohan

26. Utility of Vilsmeier Haack reagent in the synthesis of 3-amino-12-chloroquino[3,2-e] [1,3] diazocines

Indian J Chem, 43B, 846-851(2004). (September 2004)
R. Nandha Kumar, T. Suresh, T. Dhanabal and P. S. Mohan

25. Synthesis and Characterization of 12-ethoxy-3-oxo-4-phenyl-quino[3,2-c] [1,3]diazocines via Vilsmeier Haack Reaction

J Ind Chem Soc, 81(7), 598-601 (2004). (May 2004)
R. Nandha Kumar, T. Suresh, T. Dhanabal and P. S. Mohan

24. Synthesis and antibacterial activity of 8-methylbenzo[b]naphtho[f][1,6] naphthyridines

Asian J Chem, 15(2), 855-859 (2003). (December 2003)
T.Suresh, R. Nandha Kumar and P.S. Mohan

23. Isolation of 4-chloro-3-formyl-2-(2-hydroxy-ethene-1-yl)quinolines by Vilsmeier Haack reaction on quinaldines: Construction of diazepino quinoline heterocycles and their antimicrobial and cytogenetic studies

Acta Pharma, 53(1), 1-13 (2003). (October 2003)
R. Nandha Kumar, T. Suresh and P. S. Mohan

22. An oxaza cyclohexane moiety with antimicrobial and antifeedant activity from nutrient stress callus of Salacia beddomei

Research Journal of Chemistry and Environment,8(1),74-75(2004) (September 2003)
M. A. Deepa, V. Narmatha Bai, T. Suresh, T. Dhanapal and P. S. Mohan

21. Synthesis and antibacterial activities of 1,2,3,4,6,7,8,9-octahydro-1,3,7,9-tetraphenyl 5-pyrrolo-2,4,6,8-tetraoxo-10H, 5H pyrido[2,3-d; 6,5-d'] dipyrimidine

Heterocyclic Commun, 9, 2, 203-208 (2003). (September 2003)
T. Suresh, R. Nandha Kumar and P. S. Mohan

20. Synthesis, characterization and antimicrobial activity of 4-phenyl-3-thiopyrimido[4,5-b] quinolines

Indian J Chem, 42B, 2133-2135 (2003). (September 2003)
T. Suresh, R. Nandha Kumar, S. Magesh and P. S. Mohan

19. Reactions of heterocyclic quinone methides: A facile entry to synthesize the alkaloid, flindersine and its analogues

Indian J Chem, 42B, 187-188 (2003). (September 2003)
R. Nandha Kumar, S. Thamarai selvi, T. Suresh and P. S. Mohan

Dr T SURESH , Assistant Professor , Department of Chemistry

18. Synthesize of novel benzopyrano pyrano pyrimidines and benzopyrano pyrano thio pyrimidines

Indian J Chem, 42B, 184-186 (2003). (September 2003)
R. Nandha Kumar, T. Suresh, S. Magesh and P. S. Mohan*

17. Synthesis and antibacterial activity of pyrimido[4,5-b]quinolines

Indian J Chem, 42B, 688-689 (2003). (September 2003)
R. Nandha Kumar, T. Suresh and P. S. Mohan

16. Synthesis and antibacterial activities of newer derivatives of pyrido[2,3- d;6,5-d']dithiopyrimidines

Indian J Chem, 42B, 1734-1737 (2003). (September 2003)
R. Nandha Kumar, T. Suresh and P. S. Mohan

15. Synthesis and antibacterial activities of newer pyrido[2,3-d;6,5-d'']dipyrimidine

Asian J Chem, 15(3&4), 1447-1451(2003). (June 2003)
R. Nandha Kumar, T. Suresh and P. S. Mohan

14. A facile approach to dibenzo[b,f][1,6]naphthyridines using Vilsmeier's Conditions

Heterocyclic Commun, 9, 1, 83-88 (2003). (May 2003)
T. Suresh, R. Nandha Kumar and P. S. Mohan

13. A new benzoid system with antifeedant and antimicrobial properties from the elaves of Salacia beddomei Gamble

Biosciences, Biotech Research Asia 1(2), 121-122 (2003). (May 2003)
M.A. Deepa, T. Suresh, T.Dhanabal,P.S.Mohan and V. Narmatha Bai

12. Vilsmeier Haack reaction on quinaldines

Indian J Chem, 42B, 2069-2073 (2003). (May 2003)
R. Nandha Kumar, T. Suresh and P. S. Mohan

11. Synthesis, characterization and antibacterial activities of pyridodipyrimidines

Asian J Chem, 15(1), 160-164 (2003). (March 2003)
R. Nandha Kumar, T. Suresh and P. S. Mohan

10. A photochemical route to synthesize cryptosanguinolentine

Tetrahedron Lett, 43 (18), 3327-3328 (2002). (November 2002)
R. Nandha Kumar, T. Suresh and P. S. Mohan

9. Synthesis and antibacterial activities of pyridodithiopyrimidines

Orient J Chem, 18(1), 93-96 (2002). (September 2002)
R. Nandha Kumar, T. Suresh and P. S. Mohan

8. A concise synthesis of orixiarine

Heterocycles, 57(2), 357-360 (2002). (September 2002)
R. Nandha Kumar, S.Thamarai Selvi, T. Suresh and P.S.Mohan

7. Antibacterial activity of Mappia foetida leaves and stem

Fitoterapia, 73(7-8), 734-736(2002). (September 2002)
R. Nandha Kumar, H. Vishwanathan, T. Suresh, P.S. Mohan

6. An approach to the synthesize pyrimido pyrano quinolines

Orient J Chem, 18(2), 239-242 (2002). (June 2002)
R. Nandha Kumar, T. Suresh and P. S. Mohan

5. Structural elucidation and 1H-NMR, 13C-NMR and mass spectroscopic study of novel 4-chloro-3-formyl-2(vinyl-1-ol)-quinolines and 3-formyl-4-hydroxy-2-methylquinolines

Spectroscopy Lett, 35(5), 741-750 (2002). (June 2002)
R. Nandha Kumar, T. Suresh and P. S. Mohan

4. Synthesis of quino[3,2-f][1,5]benzoxazepines

J Ind Chem Soc, 79(9), 774-775 (2002). (May 2002)
R. Nandha Kumar, T. Suresh and P. S. Mohan

Dr T SURESH , Assistant Professor , Department of Chemistry

3. A simple one-pot synthesis of 4-phenyl-3-oxo pyrimido[4,5-b]quinolines and their biocidal studies

Asian J Chem, 14(3&4), 1405-1408 (2002). (March 2002)
R. Nandha Kumar, T. Suresh and P. S. Mohan

2. An elegant synthesis of pyrano-bisquinaldines

Asian J Chem, 14(2), 903-906 (2002). (February 2002)
T. Suresh, R. Nandha Kumar and P. S. Mohan*

1. A facile entry to pyrimido[4,5-b]quinolines and its thio analogues

Heterocyclic Commun, 7(2), 193-198 (2001). (September 2001)
R. Nandha Kumar, T. Suresh, A. Mythili and P. S. Mohan

Books/Chapters - 4

4. Convenient Synthesis of Orixiarine: Pharmacological and Biological Perspectives

Current Topics on Chemistry and Biochemistry Vol. 4, 68-73,2023 (August 2023)
T Suresh, K Velmurugan, PS Mohan, R Nandhakumar

3. Chemical Characterization and Pharmacology of Magnolia champaca (L.) Baill. ex Pierre

(Family:Magnoliaceae)

Bioactives and Pharmacology, Volume 1, 2023, 259 (June 2023)
AMSAVENI SUNDARASAMY, SHYAMSIVAPPAN SELVARAJ, SENTAMIL SELVI RAMASAMY, KAVIYARASU ADHIGAMAN AND SURESH THANGARAJ

2. Biomolecules and Therapeutics of Spathodea campanulata P. Beauv. (Family:Bignoniaceae)

Bioactives and Pharmacology, Volume 1, 2023,333 (June 2023)
AMSAVENI SUNDARASAMY, SHYAMSIVAPPAN SELVARAJ, SENTAMIL SELVI RAMASAMY, KAVIYARASU ADHIGAMAN AND SURESH THANGARAJ

1. Anticancer studies of Quinolones

Scholars Press, 03, 2021 (July 2021)
Shyam Sivappan, Suresh T and P.S.Mohan

Projects

Completed - 2

1. A Novel N-Aryl Substituted-2,7-Carbazole-3,4-Ethylendioxythiophene's (NAC-EDOT's) molecule as a Counter Electrode for efficient Solar Cells UGC-MRP 8,00,000 (December 2017 - November 2019)

2. Synthesis and application anticancer compounds RUSA 2.0 - BCTRC 7,43,000 (December 2020 - December 2022)