



BIO-DATA

OF

Dr. T. R. SWAROOP

M.Sc., Ph.D.,

(TORESHETTAHALLY R SWAROOP)

Assistant Professor in Organic Chemistry

Department of Studies in Organic Chemistry

University of Mysore, Manasagangothri

Mysore – 570 006, Karnataka, India

PLACE OF BIRTH

Toreshettahally, Karnataka, India, Born on 16th June, 1987.

CONTACT INFORMATION

Phone : +91 99642 68677

E-mail : swarooptr@gmail.com; swarooptr@yahoo.com

Permanent Address : T. R. Swaroop
S/o T. K. Ramesh
#421, Vidhya Nagar
Maddur-Malavalli road
Maddur-571 428, Mandya District
Karnataka, India

PERSONAL INFORMATION

Father's Name : T. K. Ramesh
Spouse Name : A. S. Punyashree
Sex : Male
Nationality : Indian
Marital Status : Married
Languages known : English, Hindi and Kannada
Mother tongue : Kannada

EDUCATION DETAILS

Course/Exam/ Position	Institution/University	Year	Remarks
B.Sc. (P.C.M)	Bharathi College Bharathi nagara, Mandya, Karnataka	2007	Distinction 8 Gold Medals & 7 Cash Prizes
M.Sc. (Chemistry)	Department of Studies in Chemistry, University of Mysore, Mysore, Karnataka	2009	Distinction 3 Gold Medals & 1 Cash Prize
NET	Council of Scientific and Industrial Research (CSIR) New Delhi, India	2009	Qualified as CSIR- JRF
Ph.D	Department of Studies in Chemistry, University of Mysore, Mysore, Karnataka	2014	Awarded in March - 2014
Postdoctoral	Department of Chemistry, Memorial University of Newfoundland, St. John's, Canada	2017	Awarded by Shastri Indo-Canadian Institute
Postdoctoral	School of Chemistry and Pharmaceutical Sciences Guangxi Normal University Guilin, China	2018	Fellowship from Guangxi Normal University
Visiting Scientist	Yildiz Technical University, Istanbul, Turkey	2020	Funded by TUBITAK
Visiting Scientist	Utrecht University, Utrecht, The Netherlands	2020-21	Funded by NWO

RESEARCH AREA

Synthesis of heterocyclic compounds, organosulfur chemistry, functional group transformations, study of biological activities (anti-cancer, antibacterial, antioxidant, anti-inflammatory, and cholinesterase inhibition), materials chemistry, computational chemistry, green chemistry, chemical education and history of chemical science.

CITATION INDICES

Total citations : 616

h-index : 13

i10-index : 18

RESEARCH ACCOMPLISHMENTS

I am actively engaged in development of new synthetic methods for heterocyclic compounds. I have worked on exploring synthetic applications of β -thiooxoketones and β -methylthio- α,β -unsaturated ketones for the synthesis of thiophene, isoxazole, thiazole and quinoline derivatives. I have used cascade protocol for the synthesis of thiazolidinones, oxazoles and 2-arylquinolines from alcohols in T3P-DMSO media. I have used xanthate esters for the synthesis of 5-alkoxy-4-(tosyl/ethoxycarbonyl)-1,3-thiazoles by base-induced cyclization with active methylene isocyanides and carbamothioates by the reaction with arylmethyl isocyanides/arylmethylamines. Besides, I have reported cyclization of activated methylene isocyanides with methyl *N(N),N'*-di(tri)substituted carbamimidothioates for the synthesis of *N,1*-aryl-4-tosyl/ethoxycarbonyl-1*H*-imidazol-5-amines. Further, I have synthesized new oligothiophenes and polythiophenes, which may be potential candidates for application in solar cells and organic light emitting diodes. Also, I am using density functional theory for calculations in materials science. Recently, I have been exploring the synthetic applications of α -oxodithioesters for the synthesis of quinoxalines, benzoxazoles and thiazoles.

Besides, in the area of green chemistry, I have employed choline chloride–urea ionic liquid for the synthesis of 4*H*-chromenes and pyranopyrazoles. Solid phase regiospecific synthesis of 1,2-disubstituted 4-quinolones from enaminones. Electrochemical sulfonylation of thiols with sulfonyl hydrazides, which is a metal- and oxidant-free protocol for the synthesis of thiosulfonates, dehydrogenative coupling of alcohols with hydrogen phosphoryl compounds by employing electricity and reductive coupling of aromatic aldehydes and ketones under electrochemical conditions.

Furthermore, I have synthesized biologically important molecules and explored them for antimicrobial, anti-inflammatory, anti-oxidant, anticancer, cholinesterase inhibition and platelet aggregation inhibition activities.

Recently, I have been involved in research on chemical education and history of chemical sciences.

MEDALS, PRIZES AND AWARDS

1. Prof. D. S. Mahadevappa Gold Medal for **Chemistry** in **B.Sc.**
2. Prof. B. Syed Ali Gold Medal for **Chemistry** in **B.Sc.**
3. Sidlaghatta Rama Rao Gold Medal for **Physics** in **B.Sc.**
4. Sri. L. Prameshchandra Endowment Gold Medal for **Physics** in **B.Sc.**
5. Prof. M. V. Sridhar Gold Medal for **Mathematics** in **B.Sc.**
6. The Principal M Munigaviyappa Gold Medal for **Mathematics** in **B.Sc.**
7. Alamelammal H Ramanuja Iyengar Gold Medal for **B.Sc.**
8. The S. R. Dharma Pravarthan Anbil S Ramaswamy Iyengar Gold Medal for **B.Sc.**
9. M. Gopaldaswamy Memorial Prize for **B.Sc.**
10. Prof. K. Sheshadri Iyengar Endowment for **B.Sc.**
11. Prof. H. Sankegowda Cash Prize for **B.Sc.**
12. The Prof. B. S. Mahadeva Rao Prize for **B.Sc.**
13. The Graduate Co-operative Bank Golden Jubilee Memorial Cash Prize for **B.Sc.**
14. Prof. N. Ramaiah Cash Prize for **B.Sc.**
15. Prof. S. V. Keshava Hegde Memorial Prize for **B.Sc.**
16. Sathyabhama Devi Roy Gold Medal for **Organic Chemistry** in **M.Sc.**

17. Prof. C. Anjanamurthy Gold Medal for **Organic Chemistry** in **M.Sc.**
18. Prof. Vrushabendrappa Endowment Gold Medal for **Organic Chemistry** in **M.Sc.**
19. Prof. M. G. Sreenivasa Rao Memorial Cash Prize for **M.Sc.**
20. CSIR Junior Research Fellow Award – 2010
21. CSIR Senior Research Fellow – 2012
22. Shastri Research Student Fellowship – Postdoctoral - 2017
23. Guangxi Normal University Postdoctoral Fellowship – 2018
24. Visiting Scientist, Yildiz Technical University, Turkey – 2020
25. Visiting Scientist, Utrecht University, The Netherlands – 2020-21
26. Young Researcher Award – 2020 from Institute of Scholars, India
27. Best Researcher Award – 2021 from VDGGOOD Professional Association, India
28. Award for Excellence in Research - 2021 from Hypedge Media and I CAN Foundation, India

MEMBERSHIP IN PROFESSIONAL BODIES/ORGANIZATIONS

1. Life Member of Indian Science Congress Association
2. Life Member of Indian Society of Chemists and Biologists
3. Member of Materials Today-Connecting the Materials Community
4. Member to Electro Chemical Society of India
5. Life member of Institute of Scholars, India

REFRESHER COURSES TAKEN

1. Online Refresher Course in Chemistry for Higher Education Faculty – 2020

SOCIAL RECOGNITIONS

1. Pratibha Puraskara – 2007 from Bharathi College, Bharathi nagara, Mandya.
2. Pratibha Puraskara – 2007 from District Press Reporters Forum, Mandya.
3. Yugadi Puraskara – 2008 from Chaithanya Balaga, Mandya.
4. Attended **Republic Day Parade – 2008, New Delhi** as a guest of **Hon'ble Prime Minister of India** for excellent performance in academics (B.Sc.).
5. Republic Day Felicitations – 2012 from National Festival Celebration Committee - Maddur for accomplishments in the field of education.

RESEARCH EXPERIENCE

1. Worked as Research Associate in **Astra Zeneca India, Pvt. Ltd.** from August - 2009 to January - 2010.
2. Worked as a Council of Scientific and Industrial Research – Junior and Senior Research Fellow (CSIR - JRF & SRF) for **Ph. D.** degree in **Chemistry** entitled “**Regiospecific approach for the synthesis of thiophene, isoxazole, thiazole and quinoline derivatives**” under the guidance of **Prof. K. S. Rangappa**, Former Vice-Chancellor and Distinguished Professor, University of Mysore, Mysore from January - 2010 to July - 2013.
3. Worked as Shastri Postdoctoral Fellow at **Memorial University of Newfoundland, St. John's**, Canada under the guidance of **Prof. Paris Georghiou** from June to August - 2017.
4. Worked as Postdoctoral Fellow at **Guangxi Normal University**, Guilin, China under the guidance of **Prof. Heng-Shan Wang**, **Prof. Ying-Ming Pan** and **Dr. Hai-Tao Tang** from April to August – 2018.
5. Worked as a Visiting Scientist at **Yildiz Technical University**, Istanbul, Turkey in collaboration with **Prof. Dr. Lokman Torun** in February – 2020.
6. Worked as Visiting scientist at **Utrecht University**, Utrecht, the Netherlands in collaboration with **Prof. Roland J Pieters** from December – 2020 to January - 2021.

TEACHING EXPERIENCE

1. Worked as a guest lecturer for Integrated M.Sc. Chemistry and M.Sc. Organic Chemistry at DOS in Chemistry, University of Mysore, Mysore for the year 2010 -11 and 2011-12.
2. Worked as a guest lecturer for M.Sc. Chemistry at Department of Chemistry, Davangere University, Davangere for the year 2013-14.
3. Worked as Assistant Professor of Chemistry at Regional Institute of Education, Mysore for the years 2014-15, 2015-16 and 14-06-2016 to 03-10-2016.
4. Working as Assistant Professor of Organic Chemistry at Department of Studies in Organic Chemistry, University of Mysore, Manasagangothri, Mysore from 04-10-2016.

CO-CURRICULAR ACTIVITIES

1. Trained in National Cadet Corps (NCC) for two years in Junior Division (JD) and four years in Senior Division (SD) where obtained the cadet rank - **Junior Under Officer** (JUO).
2. Certificate 'A' passed with 'C' grade.
3. Certificate 'B' passed with 'B' grade.
4. Certificate 'C' passed with 'B' grade.
5. Attended many training camps such as Annual Training Camp (ATC) and Combined Annual Training Camp (CATC).
6. Attended State level **Thal Sainik Camp** (TSC) representing the Mysore group.

COUNTRIES VISITED

Canada, China, Turkey, the Netherlands, Japan (to be visited).

RESEARCH COLLABORATIONS

1. **Prof. K. S. Rangappa**, Distinguished Professor, University of Mysore, Mysuru, India.
2. **Dr. Basappa**, Chairman, DOS in Organic Chemistry, University of Mysore, Mysuru, India.
3. **Dr. M. P. Sadahiva**, DOS in Chemistry, University of Mysore, Mysuru, India.
4. **Prof. Paris Georghiou**, Memorial University of Newfoundland, St. Johns, Canada.
5. **Prof. Lokman Torun**, Yildiz Technical University, Istanbul, Turkey.

SEMINARS, WORKSHOPS, CONFERENCES, SYMPOSIA ATTENDED

1. State level seminar on **Einsteinian Physics – A Retrospect** held on 16th & 17th December 2005 organized by Department of Physics, JSS College for women, Saraswathipuram, Mysore (Participation).
2. National seminar-cum-workshop on **Knowledge Construction in Physics** held on 17th – 19th February, 2006 at JSS College for women, Saraswathipuram, Mysore (Participation).
3. **International Symposium on Challenges in Drug Discovery Programme (ISCDDP-2011)** held on 16th – 17th February, 2011 at Karnataka State Open University, Manasagangotri, Mysore (Poster presentation and member of organizing committee).
4. National conference on **Recent Trends in Chemistry (RTC-2011)** held on 16th & 17th September, 2011 at Department of Chemistry, PES college of Science, Arts and Commerce, Mandya (Participation).

5. **International Conference on Synthetic and Structural Chemistry (ICSSC-2011)** held on 8th – 10th December, 2011 at DOS in Chemistry, Mangalore University, Mangalagangothri, Mangalore (Participation).
6. National lecture series on **Bio-Prospecting for sustainable development** held on 29th & 30th November, 2012 at University of Mysore, Manasagangothri, Mysore (Participation).
7. National conference on **Recent Trends in Bioorganic Chemistry and its Application to Society** held on 26 & 27th September, 2014 at Sarada Vilas College, Krishnamurthypuram, Mysore (Participation).
8. Workshop on **Computational Methods in Small Molecule and Bio-Pharmaceutical Drug Discovery** held on 7 – 9th May 2015 at University of Mysore, Mysore (Participation).
9. One-day National Seminar on **Chemistry and Chemical Biology** held on 26th May, 2015 on the occasion of Prof. K. S. Rangappa's 60th birth day at University of Mysore, Manasagangothri, Mysore (Participation).
10. Plenary talks and Panel discussion on **Genetics Today** held on 10th October, 2015 at University of Mysore, Mysore (Participation).
11. **The 103rd Indian Science Congress** held on 3 - 7th January, 2016 at University of Mysore, Manasagangothri, Mysore (Participation).
12. **International Conference on Science and Technology: Future Challenges and Solutions** held on 8- 9th August, 2016 at University of Mysore, Mysore (Participation).
13. **Summer Organic Chemistry Conference on Everybody's Research (SOCCER)** held on 14th and 15th August 2017 at Department of Chemistry, Memorial University of Newfoundland, St. John's, NL, Canada (Oral presentation).
14. International Symposium on **Developing Drugs for Tomorrow (Challenges and opportunities)** on 1st and 2nd January, 2018 at Adichunchanagiri Institute for Molecular Medicine, B G Nagara, Karnataka (Poster presentation).
15. **Biodiversity and Bio-prospecting for Sustainable Development – 2018 (BBSD-2018)** held on 23rd and 24th February, 2018 at Institution of Excellence, University of Mysore, Mysore (Oral Presentation).
16. **International Conference on Nanomaterials and their applications** held on 1st and 2nd March, 2018 at University of Mysore, Mysuru (Poster presentation).

17. **Recent Innovations in Medicinal and Material Chemistry (RIMMC - 2019)** held on 8th and 9th March 2019 at University of Mysore, Mysore (Organizing committee member).
18. **Advanced Materials for Health, Energy and Environment (AMHEE - 2019)** held on 6th and 7th September, 2019 at JSS Science and Technology University, Mysore (Oral presentation).
19. National conference on **“Science and Technology: Rural Development”** held on 17th and 18th October, 2019 at University of Mysore, Mysore (Oral presentation).
20. National conference on **“Innovations in Chemical Sciences (NCICS - 2020)”** held on 30th and 31st January, 2020 at University of Mysore, Mysore (Organizing committee member).
21. Inauguration of **Organic Chemical Society** held on 30th March, 2021 at DOS in Organic Chemistry, University of Mysore, Mysore (Invited talk).

WEBINARS ATTENDED

1. A webinar on “Opportunities & Challenges in Drug Discovery & Development!” organized by Elsevier and Dr. Reddy’s Institute of Life Sciences on 16th July, 2020.
2. A webinar on “Understanding Research Ethics and Integrity and Integrity in Academia” organized by Wiley on 21st July, 2020.
3. A webinar on “Materials Innovation for Energy and Water” organized by Materials Today on 22nd July, 2020.
4. A webinar on “Peer Review: The Backbone of the Publishing Process” organized by Wiley on 30th July, 2020.
5. A webinar on “ACS Science Talks: Molecular Engineering: Small Peptides Mimicking Proteins” organized by ACS India on 26th August, 2020.
6. A webinar on “Computer Assisted New Chemical Structure Elucidation – from ACD Labs” organized by DOS in Organic Chemistry, University of Mysore, Mysuru on 21st September, 2020.
7. A webinar on “Anton Paar Solutions for Microwave Synthesis” organized by DOS in Organic Chemistry, University of Mysore, Mysuru on 29th September, 2020.
8. An international webinar on “Trends in Chemical Science: Challenges and Opportunities” organized by St. Philomena’s college, Mysore from 4th to 6th November, 2020.

9. “One Day National Workshop: ICT Tools for Chemistry Teachers” held on 22nd February, 2021.

TEXT BOOKS WRITTEN

1. A textbook on ‘Chemistry of Heterocyclic Compounds’. **T. R. Swaroop**, K. M. Mahadevan, K. S. Rangappa, Notion Press, **2020** (ISBN: 9781636064550).
2. A book on ‘History of Chemical Science – Biographies of Chemists Volume I’. **T. R. Swaroop**, K. S. Rangappa, Notion Press, **2020** (ISBN: 9781637149676).
3. A textbook on ‘Reduction and Oxidation’. **T. R. Swaroop**, K. M. Mahadevan, K. S. Rangappa, Notion Press, **2021** (ISBN: 9781638507734).

PATENTS

1. S. M. Anil, T. R. Swaroop, A. C. Vinayaka, K. R. Kiran, K. S. Rangappa, M. P. Sadashiva, “Anti-cancer activity of (4-(methylthio)thiazol-5-yl)(aryl/heteroaryl)methanones”. Indian Patent 2021 (Patent filing is in progress).

RESEARCH PUBLICATIONS

1. G. S. Lingaraju, **T. R. Swaroop**, A. C. Vinayaka, K. S. Sharath Kumar, M. P. Sadashiva, K. S. Rangappa. “An easy access to 4,5-disubstituted thiazoles via base-induced click reaction of active methylene isocyanides with methyl dithiocarboxylates”. **Synthesis** **2012**, 9, 1373-1379. (ISSN: 0039-7881; Impact Factor: 2.7).
2. K. S. Sharath Kumar, **T. R. Swaroop**, K. B. Harsha, K. H. Narasimhamurthy, K. S. Rangappa. “T3P[®] - DMSO mediated one pot cascade protocol for the synthesis of 4-thizolidinones from alcohols”. **Tetrahedron Lett.** **2012**, 53, 5619-5623. (ISSN: 0040-4039; Impact Factor: 2.4).
3. C. N. Revanna, **T. R. Swaroop**, G. M. Raghavendra, D. G. Bhadregowda, K. Mantelingu, K. S. Rangappa. “Practical and green protocol for the synthesis of substituted 4*H*-chromenes using room temperature ionic liquid choline-chloride – urea”. **J. Heterocycl. Chem.** **2012**, 4, 851-855. (ISSN: 1943-5193; Impact Factor: 0.7).
4. M. Prabhuswamy, **T. R. Swaroop**, S. Madan Kumar, K. S. Rangappa, N. K. Lokanath. “2-(4-Chlorophenyl)-6-methyl-4-(3-methylphenyl)quinoline”. **Acta Cryst.** **2012**. E68, o3250. (ISSN: 2056-9890; Impact Factor: 0.4).

5. **T. R. Swaroop**, R. Roopashree, H. Ila, K. S. Rangappa. "Attempted Simmon-Smith reaction on β -alkylthio- α,β -unsaturated ketones: a regiospecific synthesis of 2,4-disubstituted thiophenes". **Tetrahedron Lett.** **2013**, 54, 147-150. (ISSN: 0040-4039; Impact Factor: 2.4).
6. **T. R. Swaroop**, H. Ila, K. S. Rangappa. "Cyclocondensation of β -(aryl/heteroaryl)methylaminoenones with thionyl chloride: a facile general approach for the synthesis of 2,4-bis(het)aryl-5-(het)aroylthiazoles". **Tetrahedron Lett.** **2013**, 54, 5288-5292. (ISSN: 0040-4039; Impact Factor: 2.4).
7. K. H. Narasimhamurthy, S. Chandrappa, K. S. Sharath Kumar, **T. R. Swaroop**, K. S. Rangappa. "Synthetic utility of propylphosphonic anhydride – DMSO media: an efficient one-pot three component synthesis of 2-aryl quinolines". **Chem. Lett.** **2013**, 42, 1073-1075. (ISSN: 0366-7022; Impact Factor: 1.6).
8. K. J. Pampa, M. M. M. Abdoh, **T. R. Swaroop**, K. S. Rangappa, N. K. Lokanath. "[4-(4-Methoxyphenyl)-2-(pyridin-3-yl)-1,3-thiazol-5-yl][4-(trifluoromethyl)-phenyl] methanone". **Acta Cryst.** **2013**, E69, o1434. (ISSN: 2056-9890; Impact Factor: 0.4).
9. C. M. Shivaprasad, S. Jagadish, **T. R. Swaroop**, C. D. Mohan, R. Roopashree, K. S. Sharath Kumar, K. S. Rangappa. "New synthetic benzisoxazole derivatives as antimicrobial, antioxidant and anti-inflammatory agents". **Eur. J. Chem.** **2013**, 4, 402-407. (ISSN: 2153-2257; Impact Factor: 0.8).
10. C. M. Shivaprasad, S. Madan Kumar, **T. R. Swaroop**, K. S. Rangappa, N. K. Lokanath. "1-(4-Methylphenylsulfonyl)-2-[[3-methyl-4-(2,2,2-trifluoroethoxy)pyridin-2-yl] methylsulfanyl]-1H-1,3-benzimidazole". **Acta Cryst.** **2013**, E69, o1846. (ISSN: 2056-9890; Impact Factor: 0.4).
11. C. M. Shivaprasad, S. Madan Kumar, B. C. Manjunath, **T. R. Swaroop**, K. S. Rangappa, N. K. Lokanath. "Synthesis and structural studies of 2-((3-methyl-4-(2,2,2-trifluoromethoxy)pyridin-2-yl)methylthio)-1-(methylsulfonyl)-1Hbenzo[d]imidazole". **X-ray Structure Analysis Online.** **2013**, 29, 47-48. (ISSN: 1883-3578; Impact Factor:--)
12. C. M. Shivaprasad, S. Jagadish, **T. R. Swaroop**, C. D. Mohan, R. Roopashree, K. S. Sharath Kumar, K. S. Rangappa. "Synthesis of new benzisoxazole derivatives and their antimicrobial, antioxidant and anti-inflammatory activities". **Eur. J. Chem.** **2014**, 5, 91-95. (ISSN: 2153-2257; Impact Factor: 0.8).
13. M. Prabhuswamy, S. Madan Kumar, **T. R. Swaroop**, K. S. Rangappa, N. K. Lokanath. "6,7-Dimethoxy-2,4-diphenylquinoline". **Acta Cryst.** **2014**, E70, o165. (ISSN: 2056-9890; Impact Factor: 0.4).
14. B. Raghava, G. Parameshwarappa, A. Acharya, **T. R. Swaroop**, K. S. Rangappa, H. Ila. "Cyclocondensation of hydroxylamine with 1,3-bis(het)arylmonothio-1,3-diketones and 1,3-bis(het)aryl-3-(methylthio)-2-propenones: Synthesis of 3,5-bis(het)arylisoxazoles with

- complementary regioselectivity”. **Eur. J. Org. Chem.** **2014**, 2014, 1882-1892. (ISSN: 1099-0690; Impact Factor: 3.1).
15. **T. R. Swaroop**, K. S. Sharath Kumar, M. Palanivelu, S. Chaitanya, K. S. Rangappa. “A catalyst free green protocol for the synthesis of pyranopyrazoles using room temperature ionic liquid choline chloride-urea”. **J. Heterocycl. Chem.** **2014**, 6, 1866-1870. (ISSN: 1943-5193; Impact Factor: 0.7).
 16. R. Roopashree, **T. R. Swaroop**, S. Jagadish, C. D. Mohan, K. S. Rangappa. “Synthesis and cholinesterase inhibition activity of new pyrrolopyrimidine derivatives”. **Lett. Drug. Des. Discov.** **2014**, 11, 1143-1148. (ISSN: 1875-628X; Impact Factor: 1.0).
 17. R. Roopashree, C. D. Mohan, **T. R. Swaroop**, S. Jagadish, K. S. Rangappa. “Synthesis, characterization and in vivo biological evaluation of novel benzimidazoles as potential anticancer agents”. **Asian J. Pharm. Clin. Res.** **2014**, 5, 309-313. (ISSN: 2455-3891; Impact Factor: 0.5).
 18. K. S. Rakesh, S. Jagadish, A. C. Vinayaka, M. Hemshekar, M. Paul, R. M. Thushara, M. Shanmuga Sundaram, **T. R. Swaroop**, C. D. Mohan, S. Basappa, M. P. Sadashiva, K. Kemparaju, K. S. Girish, K. S. Rangappa. “A new ibuprofen derivative inhibits platelet aggregation and ROS mediated platelet apoptosis”. **Plos one.** **2014**, 9, e107182. (ISSN: 1932-6203; Impact Factor: 3.2).
 19. K. S. Rakesh, S. Jagadish, **T. R. Swaroop**, N. Ashwini, K. B. Harsha, K. S. Rangappa. “Antioxidant and anti-inflammatory activities of synthetic 2,4-bis(aryl/heteroaryl)-5-acylthiazole derivatives”. **Asian J. Biochem. Pharm. Res.** **2014**, 4, 316-327. (ISSN: 2231-2560; Impact Factor: 0.5).
 20. R. Roopashree, C. D. Mohan, **T. R. Swaroop**, S. Jagadish, Basappa, J. Shankar, K. S. Balaji, K. S. Rangappa. “Novel synthetic bisbenzimidazole that targets angiogenesis in Ehrlich ascites carcinoma bearing mice” **Bioorg. Med. Chem. Lett.** **2015**, 12, 2589-2593. (ISSN: 0960-894X; Impact Factor: 2.4).
 21. K. S. Rakesh, S. Jagadish, **T. R. Swaroop**, C. D. Mohan, N. Ashwini, K. B. Harsha, Z. Farhan, K. S. Girish, K. S. Rangappa. “Anticancer activity of 2,4-disubstituted thiophene derivatives: Dual inhibitors of Lipoxygenase and Cyclooxygenase”. **Med. Chem.** **2015**, 11, 462-472. (ISSN: 1875-6638; Impact Factor: 2.3).
 22. N. Ashwini, Manoj Garg, C. D. Mohan, J. E. Fuchs, R. Shobith, S. Anusha, **T. R. Swaroop**, K. S. Rakesh, K. Deepika, Vikas Madan, Andreas Bender, H. Phillip Koeffler, Basappa, K. S. Rangappa. “Synthesis of 1,2-benzisoxazole tethered 1,2,3-triazoles that exhibit anticancer activity in acute myeloid leukemia cell lines by inhibiting histone deacetylases and inducing p21 and tubulin acetylation”. **Bioorg. Med. Chem.** **2015**, 18, 6157-6165. (ISSN: 0968-0896; Impact Factor: 2.8).

23. C. M. Shivaprasad, S. Jagadish, **T. R. Swaroop**, R. Roopashree, C. D. Mohan, K. S. Rakesh, B. Raghava, K. S. Rangappa. "Synthesis, antibacterial, antioxidant and anti-inflammatory activities of new benzimidazole derivatives". **Asian J. Biochem. Pharm. Res.** **2015**, *5*, 71-81. (ISSN: 2231-2560; Impact Factor: 0.5).
24. K. S. Rakesh, S. Jagadish, K. S. Balaji, F. Zameer, **T. R. Swaroop**, C. D. Mohan, S. Jayarama, K. S. Rangappa. "3,5-Disubstituted isoxazole derivatives: Potential inhibitors of inflammation and cancer". **Inflammation** **2016**, *39*, 269-280. (ISSN: 1573-2576; Impact Factor: 2.6).
25. A. C. Vinayaka, **T. R. Swaroop**, C. Prasanna Kumara, K. S. Rangappa, M. P. Sadashiva. "Transition-metal-free solid phase synthesis of 1,2-disubstituted 4-quinolones via regiospecific synthesis of enamines". **RSC Adv.** **2016**, *6*, 11528-11535. (ISSN: 2046-2069; Impact Factor: 3.3).
26. C. M. Shivaprasad, S. Jagadish, **T. R. Swaroop**, R. Roopashree, C. D. Mohan, K. S. Rakesh, B. Raghava, K. S. Rangappa. "Synthesis, antibacterial, antioxidant and anti-inflammatory studies of benzimidazoles". **Eur. J. Biomed. Pharm. Sci.** **2016**, *3*, 190-197. (ISSN: 2349-8870; Impact Factor: 3.9).
27. K. S. Vinay Kumar, **T. R. Swaroop**, N. Rajeev, A. C. Vinayaka, G. S. Lingaraju, K. S. Rangappa, M. P. Sadashiva. "An one pot tandem approach for the synthesis of 5-(het)aryl oxazoles from substituted (het)aryl methyl alcohols and benzyl bromides". **Synlett** **2016**, *27*, 1363-1366. (ISSN:1437-2096; Impact Factor: 2.3).
28. S. D. Preethi, K. S. Balaji, D. S. Prasanna, **T. R. Swaroop**, J. Shankar, S. Lokesh, K. S. Rangappa. "Pro-apoptotic activity of novel 4-anilinoquinazoline derivatives mediated by up-regulation of bax and activation of poly(ADP)ribose phosphatase in ehrlich ascites carcinoma cells". **Asian J. Chem.** **2017**, *29*, 896-904. (ISSN: 0975-427X; Impact Factor: 0.35).
29. S. D. Preethi, H. K. Vivek, K. S. Balaji, D. S. Prasanna, **T. R. Swaroop**, J. Shankar, S. Lokesh, K. S. Rangappa. "Synthesis, characterization and molecular docking studies of anilinoquinazoline derivatives". **Int. J. Curr. Res.** **2017**, *9*, 46509-46517. (ISSN: 0975-833X; Impact factor: --).
30. N. Rajeev, **T. R. Swaroop**, S. M. Anil, Y. K. Bommegowda, K. S. Rangappa, M. P. Sadashiva. "Base induced cyclization of active methylene isocyanides with xanthate esters: an efficient method for the synthesis of 4-tosyl/ethylcarboxy-5-alkoxythiazoles". **Synlett** **2017**, *28*, 2281-2284. (ISSN:1437-2096; Impact Factor: 2.3).
31. S. D. Preethi, K. S. Balaji, D. S. Prasanna, **T. R. Swaroop**, J. Shankar, K. S. Rangappa, S. Lokesh. "Synthesis, characterization of 4-anilino-6,7-dimethoxyquinazoline derivatives as potential anti-angiogenic agents". **Anti-cancer Agents in Med. Chem.** **2017**, *17*, 1931-1941. (ISSN: 1875-5992; Impact factor: 2.6).

32. S. M. Anil, A. C. Vinayaka, N. Rajeev, **T. R. Swaroop**, N. Mallesha, K. S. Rangappa, M. P. Sadashiva. "Aqueous chloroplatinic acid: A green, chemoselective and reusable catalyst for the deprotection of acetals, ketals, dioxolanes and oxathiolanes". **ChemistrySelect** **2018**, 7, 1999-2003. (ISSN: 2365-6549; Impact factor: 2.1).
33. H. B. Harsha, R. Shobith, H. D. Preetham, **T. R. Swaroop**, M. Gilandoust, K. S. Rakesh, K. S. Rangappa. "An easy and efficient method for the synthesis of quinoxalines using recyclable and heterogeneous nanomagnetic-supported acid catalyst under solvent-free condition". **ChemistrySelect** **2018**, 18, 5228-5232. (ISSN: 2365-6549; Impact factor: 1.7).
34. H. B. Harsha, **T. R. Swaroop**, R. Roopashree, S. Jagadish, K. S. Rangappa. "Synthesis and *in vitro* anti-proliferative studies of new 2-(arylmethylthio)-6-ethyl-7*H*-pyrrolo[2,3-*d*]pyrimidin-4-ols". **Chemical Data Collections** **2018**, 15-16, 223-228. (ISSN: 2405-8300; Impact factor: 0.5).
35. S. M. Abdel-Wahab, Z. K. Abdelsamii, H. A. Abdel-Fattah, A. S. El-Etrawy, L. N. Dawe, **T. R. Swaroop**, P. E. Georghiou. "Synthesis of 2-aryl- and 2-haloarylbenzimidazole-N1-acetamido conjugates and a preliminary evaluation of their antifungal properties". **ChemistrySelect** **2018**, 28, 8106-8110. (ISSN: 2365-6549; Impact factor: 2.1).
36. **T. R. Swaroop**, Z. A. Tabasi, Y. Zhao, P. E. Georghiou. "New aryl-substituted 2,2'-bithiophenes: Synthesis, optoelectronic properties and DFT studies". **ChemistrySelect** **2018**, 33, 9700-9707. (ISSN: 2365-6549; Impact factor: 1.7).
37. Z-Y. Mo, **T. R. Swaroop**, W. Tong, Y-Z. Zhang, H-T. Tang, Y-M. Pan, H-B. Sun, Z-F. Chen. "Electrochemical sulfonylation of thiols with sulfonyl hydrazides: a metal- and oxidant-free protocol for the synthesis of thiosulfonates". **Green Chem.** **2018**, 20, 4428-4432. (ISSN: 1463-9270; Impact factor: 8.6).
38. N. Rajeev, **T. R. Swaroop**, S. M. Anil, K. R. Kiran, K. S. Rangappa, M. P. Sadashiva. "A sequential one-pot tandem approach for the synthesis of 4-tosyl-5-aryloxazoles from carboxylic acids". **J. Chem. Sci.** **2018**, 130, 150 (1-5). (ISSN: 0973-7103; Impact factor: 1.3).
39. S. M. Anil, R. Shobith, K. R. Kiran, **T. R. Swaroop**, N. Mallesha, M. P. Sadashiva. "A facile synthesis of 1,4-benzodiazepine-2,5-diones and quinazolinones from aminoacids as anti-tubercular agents". **New J. Chem.** **2019**, 43,182-187. (ISSN: 1144-0546; Impact factor: 3.3).
40. Q-Y. Li, **T. R. Swaroop**, C. Hou, Z-Q. Wang, Y. M. Pan, H-T. Tang. "Electrochemical dehydrogenative coupling of alcohols with hydrogen phosphoryl compounds: A green protocol for P-O bond Formation". **Adv. Synth. Catal.** **2019**, 8, 1761-1765. (ISSN: 1615-4169; Impact factor: 5.1).
41. Dukanya, **T. R. Swaroop**,* R. Shobith, K. S. Rangappa, Basappa. "Cyclization of activated methylene isocyanides with methyl *N(N),N'*-di(tri)substituted carbamimidothioate: a novel

- entry for the synthesis of *N*,1-aryl-4-tosyl/ethoxycarbonyl-1*H*-imidazol-5-amines”. **Synopen** **2019**, 3, 71-76. (ISSN: 2509-9396; Impact factor: --).
42. K. R. Kiran, **T. R. Swaroop**,* K. P. Sukrutha, J. B. Shruthi, S. M. Anil, K. S. Rangappa, M. P. Sadashiva. “Acid catalyzed condensation of *o*-phenylenediamine and *o*-aminophenol with α -oxodithioesters: a divergent and regioselective synthesis of quinoxalines and benzoxazoles”. **Synthesis** **2019**, 51, 4205-4214. (ISSN: 0039-7881; Impact Factor: 2.7).
43. S. M. Anil, N. Rajeev, K. R. Kiran, **T. R. Swaroop**, N. Mallesha, M. P. Sadashiva. “Multi-pharmacophore approach to bio-therapeutics: piperazine derived pseudo-peptidic urea/thiourea derivatives as anti-oxidant agents”. **Int. J. Pept. Res. Ther.** **2020**, 26, 151–158. (ISSN: 1573-3904; Impact factor: 1.1).
44. K. H. Narasimhamurthy, Chandra, **T. R. Swaroop**, S. Jagadish, K. S. Rangappa. “Synthesis of piperidine conjugated dihydroquinazolin-4(1*H*)-ones and their antiproliferative activity, molecular docking studies and DFT calculations”. **Lett. Drug. Des. Discov.** **2020**, 17, 85-93. (ISSN: 1875-628X; Impact Factor: 1.0).
45. N. Rajeev, **T. R. Swaroop**,* S. M. Anil, K. R. Kiran, Chandra, P. E. Georghiou, K. S. Rangappa, M. P. Sadashiva. “Reaction of arylmethyl isocyanides/arylmethylamines with xanthate esters: a facile synthesis of carbamothioates”. **Beilstein J. Org. Chem.** **2020**, 16, 159–167. (ISSN: 1860-5397; Impact Factor: 2.6).
46. K. R. Kiran, **T. R. Swaroop**,* N. Rajeev, S. M. Anil, K. S. Rangappa, M. P. Sadashiva. “Cyclization of active methylene isocyanides with α -oxodithioesters induced by base: An expedient synthesis of 4-methylthio/ethoxycarbonyl-5-acylthiazoles”. **Synthesis** **2020**, 52, 1444-1450. (ISSN: 0039-7881; Impact Factor: 2.7).
47. **T. R. Swaroop**,* Z.-Q. Wang, Q. Y. Lee, H-S. Wang. “Reductive coupling of aromatic aldehydes and ketones under electrochemical conditions”. **J. Electrochem.** **2020**, 167, 046504. (ISSN: 1945-7111; Impact Factor: 3.7).
48. N. Ashwini, G. M. Raghavendra, **T. R. Swaroop**,* M. Hiremath, M. Mahadeva, K. Mantelingu, K. S. Rangappa. “Highly enantioselective synthetic routes for glucose conjugated 1,2,3-triazoles.” **Intl. J. Curr. Adv. Res.** **2020**, 9, 21566-21571. (ISSN: 2319-6475; Impact Factor: 6.0).
49. S. M. Anil, M. S. Sudhanva, **T. R. Swaroop**,* A. C. Vinayaka, N. Rajeeva, K. R. Kiran, R. Shobith, M. P. Sadashiva. “Base induced condensation of malanonitrile with Erlenmeyer Azlactones: An unexpected synthesis of multi-substituted Δ^2 -pyrrolines and their cytotoxicity assay.” **Chem. BioDiver.** **2020**, 17, e2000014. (ISSN: 1612-1880; Impact Factor: 1.5).
50. H. Swetha, **T. R. Swaroop**, H. D. Preetham, C. D. Mohan, M. Umashakara, Basappa, I. Vlodayvsky, G. Sethi, K. S. Rangappa. “Synthesis, cytotoxic and heparanase inhibition studies of 5-oxo-1-arylpyrrolidine-3-carboxamides of hydrazides and 4-amino-5-aryl-4*H*-1,2,4-

- triazole-3-thiol.” **Curr. Org. Synth.** **2020**, 17, 243-250. (ISSN: 1875-6271; Impact Factor: 1.8).
51. K. N. Thanuja, **T. R. Swaroop**, N. Rani, K. S. Rangappa, Basappa, D. Rangappa. “Synthesis, characterization and cytotoxic studies of benzamide derivatives of anacardic acid using human liver cancer cells”. **Clin. Oncol. Res.** **2020**, 3, 1-8. (ISSN: 2613-4942; Impact Factor: 1.9).
 52. K. S. Vinay Kumar, **T. R. Swaroop**,* K. Ravi Singh, K. S. Rangappa, M. P. Sadashiva. “Sugar-urea-salt eutectic mixture as an efficient green solvent for *N*-alkylation of heterocyclic secondary amines”. **Chemical Data Collections** **2020**, 29, 100536. (ISSN: 2405-8300; Impact Factor: --).
 53. **T. R. Swaroop**,*[#] Dukanya,[#] K. S. Rangappa, Basappa. “Cyclocondensation of sodium azide with methyl *N(N),N'*-di(tri)substituted carbamimidothioate : A new dimension for the synthesis of 1,5-disubstituted tetrazoles and their cytotoxicity on human breast cancer cells”. **Curr. Org. Chem.** **2020**, 24, 2792-2799. (ISSN: 1875-5348; Impact factor: 2.2). ([#] Both authors contributed equally).
 54. **T. R. Swaroop**,* K. S. Rangappa, L. Torun. “Claisen type condensation of methyl ketones with carbimidothioates: a new gateway for the synthesis of β -enaminones”. **ChemistrySelect.** **2021**, 6, 177-180. (ISSN: 2365-6549; Impact factor: 2.1).
 55. K. B. Harsha, C. V. Kavitha, **T. R. Swaroop**,* R. Shobith, K. S. Rangappa. “A green synthesis of 1,4-benzodiazepines using reusable-heterogeneous silica sulfuric acid catalyst under solvent-free conditions and their antileukemic activity”. **Asian J. Chem.** **2021**, 33, 1006-1012. (ISSN: 0970-7077; Impact factor: 0.35).
 56. **T. R. Swaroop**,* C. M. Shivaprasad, K. S. Rangappa. “An inquiry-based teaching method for post graduate students induces cognitive thinking among student community”. **International J Chem. Education.** **2021**, 5, 62-65. (ISSN: 2169-3342; Impact factor: --).
 57. K. P. Sukrutha, **T. R. Swaroop**,* R. Preetham, N. K. Lokanath, K. S. Rangappa, M. P. Sadashiva. “A convenient way for alkylation of amines using xanthate esters”. **Synth. Commun.** **2021**, 51, 2316-2323. (ISSN: 1532-2432; Impact factor: 1.8).
 58. R. Roopashree, **T. R. Swaroop**,* C. M. Shivaprasad, S. Jagadish, K. S. Rangappa. “Synthesis and cytotoxic studies of pyrrolopyrimidine derivatives”. **Asian J. Chem.** **2021**, 33, 1855-1860. (ISSN: 0970-7077; Impact factor: 0.35).
 59. **T. R. Swaroop**,[#] * K. R. Kiran,[#] C. Santhosh, K. S. Rangappa, M. P. Sadashiva, “Cyclocondensation of *o*-Phenylenediamines with 2-Oxo-ethanimidothioates: A Novel Synthesis of 2-Amino-3-(het)aryl-quinoxalines”. **ChemistrySelect.** **2021**, **Accepted**. (ISSN: 2365-6549; Impact factor: 2.1) ([#] Both authors contributed equally).

DECLARATION

The information furnished above is correct to the best of my knowledge and belief.

T. R. Swaroop