

CURRICULUM VITAE

Dr. Sandeep Chandrashekarappa

Address;

Assistant Professor, [Department of Medicinal Chemistry](#) and [Pharmaceutical Analysis](#),
National Institute of Pharmaceutical Education and Research, Raebareli, (NIPER-R)
(An Institute of National importance) Department of Pharmaceuticals,
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Academic Qualification:

Qualification	University/Board	Year of Passing	Marks
Ph.D.,(Chemistry)*	Kuvempu University Shimoga	2014	-
M.Sc (Chemistry)	Kuvempu University Shimoga	Jun-2005	75 %
B.Sc (Phy, Chem., Math's.)	DVS Arts & Science College, Kuvempu University Shimoga	Jun-2003	60 %

***Doctor of Philosophy** (Ph.D. in Organic Chemistry) in 2014, qualified for Pre-PhD examination with 67% in Kuvempu University, Shimoga, Karnataka, India.

Advisor (Guide): Dr. Basavaraj Padmashali, Professor and Chairman Department of Chemistry, Rani Channamma University, Belagavi, Karnataka, INDIA. Email: basavarajpadmashali@yahoo.com, Tele: +91-9844218894.

Title of the Thesis: "Synthesis of Novel Indolizine Derivatives as Pharmaceutical Leads"

* Qualified Karnataka **State Eligibility Test (SET)** in Chemical Science conducted by the University of Mysore, Mysore in **2012**.

Professional Experience:

Assistant Professor (Academic Level 12) at [Department of Medicinal Chemistry](#) and [Pharmaceutical Analysis](#) National Institute of Pharmaceutical Education and Research (NIPER) Raebareli (An Institute of National Importance) Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Govt. of India. New Transit Campus of NIPER- Raebareli, Bijnor-Sisendi Road, Sarojini Nagar, Near CRPF Base Camp Lucknow (UP)-226002. Mail: c.sandeep@niperraebareli.edu.in, <http://niperraebareli.edu.in/faculty.html> **March 2021 to till date.**

- **Principal Investigator** at Institute for Stem Cell Biology and Regenerative Medicine (InStem), National Centre for Biological Science (NCBS), Tata Institute of Fundamental Research (TIFR), Bangalore **Sept-2017 to March 2021** under the scheme of **DST-Young Scientist and Technologist**.

- **Post-Doctoral Fellow** in Institute for Stem Cell Biology and Regenerative Medicine (InStem), National Centre for Biological Science (NCBS), Tata Institute of Fundamental Research (TIFR), Bangalore **Sept-2015 to Sept 2017**. Mentor: Dr. Praveen Kumar Vemula. Email: praveen.instem@gmail.com, Tele: +91- 9686011982.
- **Asst. professor and In-charge HOD** in Post Graduate Dept of Chemistry, Acharya institute of graduate studies (Affiliated with Bangalore University), Bangalore, Dec 2013 to Sept 2015.
- **Associate Scientist** in Synthetic Organic/Medicinal Chemistry at **BBRC-Syngene Intl. Ltd (Biocon Ltd.)** Bangalore, **Aug 2005 to Dec 2013 (8 years and 4 months)**.

Achievements in Nutshell

Sponsored Projects Ongoing = 05	Projects Completed = 04	Projects as Host Researcher = Nil
Total List of Publications in SCI journals = ~122 [h-index: 33 , i10 index: 68 , Citation: 3010	Invited Talks/ Plenary lecture/ Chaired Session = 07	Conferences/ Workshops/Invited lectures organized = 06
Patents filed= 49 ; Patent Granted: 40 , Book Chapter = 33	➤ International/ International Conferences = 59 ➤ National/ International Collaborations: 10	International/ National Conferences with proceedings = 03
Teaching Experience: 7 years 2 months Research and industrial Experience: 5 years 6 months as a Postdoc & 8 years 4 months as a Scientist. Total Working Experience = 21 years 0 months	Postdoc/RA Supervision: 04 JRA/JRF Supervision: 03 Ph.D. Supervision: 05 (00 completed & 05 ongoing) PG Project Supervision: (Completed 37 Students & ongoing 11)	

Teaching and Mentoring Experience:

- Acharya Institute (Affiliated to Bangalore University) Bangalore: Dec 2013 to Sept 2015.
 - Asst. Professor (Organic Chemistry) and Department In-charge in Post graduate department of chemistry.
 - Mentored postgraduate students in the completion of their dissertations.
 - Setting up of Postgraduate New Organic Chemistry practical lab for MSc students.
- Institute for Stem Cell Biology and Regenerative Medicine (InStem) Bangalore; Sept 2015 to March 2021.
 - Conducted Practical Training program for Northeastern research students (14th to 19 Nov 2016).
 - Mentored postgraduate students in the completion of their dissertations.
- National Institute of Pharmaceutical Education and Research (NIPER) Raebareli March 2021 to Till Date.
 - Setting up of research laboratory for Ph.D. and Master students
 - Mentoring Ph.D. and Master students in the completion of their dissertations

Research Areas

- **Medicinal Chemistry, Drug Discovery & Process Development:** Design, Synthesis, and Characterization of new heterocycles/NCEs, for Tuberculosis and Inflammation
- Development of New Synthetic Methodologies.
- Development of novel synthetic methodologies for the medicinally important heterocycles.

Particulars of any prize, medal, scholarship, or research fellowships awarded to the applicant:

Sl No	Year	Name of the award	Distinction for which the award was made, place
1	2019	Gandian Young Technological innovation award from GOI	2019- GYTI 2019 Prestigious National Award received from Vice president Govt of India.

2	2025	Gyanoday Puraskar Appreciation	Academic and Research Excellence from NIPER Raebareli
3	2020	Best Researcher International Award	From VD Good
4	2018	Poster Award	InStem Annual Research Review Meeting Feb 26-28
5	2017	Young Scientist and Technologist (Sept 2017 to March 2021).	DST-Young Scientist and Technologist in InStem, NCBS, TIFR, Bangalore 560065 (Under the DST-SYST Scheme).
6	2015	Bridging Postdoctoral Fellowship (Sept 2015 to Sept 2017).	For Postdoctoral Work, InStem, NCBS, TIFR, Bangalore 560065.
7	2013	Poster Award	Biocon Bristol Myers Squibb Research Centre (BBRC), Bangalore.
8	2012	K-SET (Chemistry)	State Eligibility Test 2011, University of Mysore (among top 1 %)
9	2012	Star Award	For ECN Molecule Synthesis. Biocon Bristol Myers Squibb Research Centre (BBRC), Bangalore.
10	2011	Star Award	Good Productivity, Dedication to project, Problem solving and Great personality. Biocon Bristol Myers Squibb Research Centre (BBRC), Bangalore.

Patent: (Published and filed).

- Sandeep Chandrashekharappa**, Priya Tiwari; A one-pot process for preparation of 2-substituted-1H-benzo[d]imidazole derivatives; Indian Pat. Appl. **(2024)**, IN 202411049814 A 20240628 or 28062024. Or J. Ind. Pat. Office, Issue 28/2024, 12/07/2024, IN 202411049814 A. **Granted Patent No:557854, 13/01/2025.**
- Sandeep Chandrashekharappa**, Surbhi, Gopavaram Sumanth, Sunitaben Mangubhai Gayakvad, Lakshmikanth Kyatagani; Pyrrolo[1,2-a] imidazole, 1H-Pyrrole-3-carboxylate analogues and process for preparation thereof; Indian Pat. Appl. **(2024)**, IN 202411013397 A 20240224 or 24022024. Or J. Ind. Pat. Office, Issue 10/2024, 08/03/2024, IN 202411013397 A. **Granted Patent No:553787, 01/11/2024.**
- Sandeep Chandrashekharappa**, Surbhi, Raunak Katiyar, Harshada Singh, A Process for preparation of benzofuran and benzofuro[2,3-c]pyridine compounds; Indian Pat. Appl. **(2024)**, IN 202411017264 A 20240311 or 11032024. Or J. Ind. Pat. Office, Issue 15/2024, 12/04/2024, IN 202411017264 A. **Granted Patent No:552392, 15/10/2024.**
- Sandeep Chandrashekharappa**, Surbhi, Novel benzofuro[2,3-c]pyridinol compounds and process for preparation thereof; Indian Pat. Appl. **(2024)**, IN 202411017337 A 20250125 or 28012025. J. Ind. Pat. Office, Issue 07/2025, **Granted Patent No: 569870, 19/08/2025.**
- Sandeep Chandrashekharappa**, Surbhi; A Process for Synthesis of Chromone and Flavone and Their Use in Pharmaceutical Applications; Indian Pat. Appl. **(2024)**, IN 202411026580 A 20240330 or 30032024. Or J. Ind. Pat. Office, Issue 27/2024, 05/07/2024 IN 202411026580 A. Or J. Ind. Pat. Office, Issue 27/2024, 05/07/2024, IN 202411026580 A. **Granted Patent No:557480, 06/01/2025.**
- Sandeep Chandrashekharappa**, Surbhi, Method For Synthesis Of Chrysin, Tectochrysin And Their Derivatives Thereof For Use In Pharmaceutical Applications. Indian Pat. Appl. **(2022)**, IN 202211047585 A 20220822 or 22082022.
- Katharigatta N Venugopala, Mahesh Attimarad, Anroop B Nair, Nagaraja Sreeharsha, Mohamed A Morsy, **Sandeep Chandrashekharappa**, Melendhran Pillay, Pran Kishore Deb. Antitubercular Compounds, US Patent, USPTO Number: **US 11,530,217** (Filed date: 29-06-2022). Application number and publication number **Granted US Patent No. 17,853,618 dated 20-12-2022.**
- Ningegowda, Raghu; Savitha H S, Neethu Patil; **Chandrashekharappa, Sandeep**; ANTI-TB NAPHTHYRIDINE DERIVATIVES AND THEIR SYNTHESIS THEREOF; Indian Pat. Appl. **(2023)**, IN 202341021764 A 20230326 Or J. Ind. Pat. Office, Issue 13/2023, 31/03/2023, IN 202341021764 A. **Granted Patent No: 575814** Date of Grant: 15/12/2025
- Vemula PK, Thorat K, **Chandrashekharappa S**, Pandey S. "Compositions, materials, and methods for deactivating toxic agents" PCT Int. Appl. **(2019)**, **Granted WO 2019180653 A1** 20190926.
- Vemula PK, Thorat K, **Chandrashekharappa S**, Pandey S. "A conjugate, a composition, an article, processes of preparation and application thereof" Indian Pat. Appl. **(2019)**, IN 201841006678 A 20190927. Or J. Ind. Pat. Office, Issue 39/2019, 27/09/2019 IN 201841006678 A. **Granted Patent No: 382827** Date of Grant: 26/11/2021
- Sandeep C**, Basavaraj Padmashali and Rashmi S. Kulkarni. Greener synthesis of indolizine compounds. Indian Pat. Appl. **(2017)**, IN 2015CHE4816 A 20170317, or J. Ind. Pat. Office, Issue 11/2017, 17/03/2017, IN 2015CHE4816 A. **Granted Patent No: 359559** Date of Grant: 25/02/2021

12. Jala, Venkatakrishna Rao; Bodduluri, Haribabu; Singh, Rajbir; Vemula, Praveen Kumar; **Chandrashekhharappa, Sandeep**; Hiwale, Ankita Arun; Urolithin a and derivatives thereof for use in therapy; PCT Int. Appl. (2019), **Granted WO 2019222146 A1** 20191121.
13. Ningegowda, Raghu; Banuprakash, Govindappa; **Chandrashekhharappa, Sandeep**; N-(4-fluorophenyl)-5-phenyl-[1,2,4] triazolo [1,5-a] pyridine-2-carboxamide derivatives and their synthesis thereof. PCT Int. Appl. (2021), Aug 19, 2021, **Granted WO 2021161084 A1** 20210819.
14. Vijayakumar Uppar, Basavaraj Padmashali, Govindappa Banuprakash and **Sandeep Chandrashekhharappa**. Eco-friendly synthesis of pyrrolo [1,2-a] quinoline-3-carboxylate derivatives & their study of antibacterial and antioxidant properties. Indian Pat. Appl. (2020), IN 201941039384 A 20200313 or J. Ind. Pat. Office, Issue 11/2020, 13/03/2020, IN 201941039384 A. **Granted Patent No: 418528** Date of Grant: 18/01/2023
15. Ranjith Siddaraj, Raghu Ningegowda, Govindappa Banuprakash, **Sandeep Chandrashekhharappa**; Synthesis and characterization of (s)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives and their secretory phospholipase a₂ (spla₂) inhibitor activity; PCT Int. Appl.(2022), **Granted WO 2022069953 A1** 20220407.
16. Raghu Ningegowda, **Sandeep Chandrashekhharappa**, Govindappa Banuprakash; N-(4-fluorophenyl)-5-phenyl-[1,2,4] triazolo [1,5-a] pyridine-2-carboxamide derivatives and their synthesis thereof. Indian Pat. Appl. (2020), IN 202041006661 A 20200313 or J. Ind. Pat. Office, Issue 11/2020, 13/03/2020, IN 202041006661 A. **Granted Patent No: 399540** Date of Grant: 20/06/2022
17. **Sandeep Chandrashekhharappa**. Katharigatta N. Venugopala. Novel Substituted Indolizine Scaffolds For MDR Strains OF Mycobacterium Tuberculosis, Synthetic Methodology And Chemical Structures Thereof. Indian Pat. Appl. (2020), **IN 201941002546 A** 20200403. (Filed Date:21-01-2019) or J. Ind. Pat. Office, Issue 14/2020, 03/04/2020, IN 201941002546 A.
18. Basavaraj Padmashali, Vijayakumar Uppar, **Sandeep Chandrashekhharappa**, Kiran K. Mudnakudu Nagaraju, Ethyl and dimethyl 1-benzoylpyrrolo [1,2-a] quinoline-3-carboxylate analog derivatives as antifungal and antibacterial agents. Indian Pat. Appl. (2021) 202041034710 A 05022021. (Filed Date; 12-08-2020) or J. Ind. Pat. Office, Issue 06/2021, 05/02/2021, IN 202041034710 A. **Granted Patent No: 394853** Date of Grant: 18/04/2022
19. Jala VR, Bodduluri H, Singh R, Vemula PK, **Chandrashekhharappa S**, Hiwale AA. "Synthetic analogs of gut microbial metabolites for protection of endothelial and epithelial barriers and applications thereof" USPTO Number: 62/671,737 (Filed date: 15-05-2018). Application number and publication number 11202011261P and published on 30-12-2020.
20. Jala, Venkatakrishna Rao; Bodduluri, Haribabu; Singh, Rajbir; Vemula, Praveen Kumar; **Chandrashekhharappa, Sandeep**; Hiwale, Ankita Arun; Urolithin a and derivatives thereof for use in therapy; Indian Pat. Appl. (2021), IN 202017054042 A 20212602 or J. Ind. Pat. Office, Issue 09/2021, 26/02/2021, IN 202017054042 A.
21. Vemula, Praveen Kumar; Thorat, Ketan; **Chandrashekhharappa, Sandeep**; Pandey, Subhashini; Compositions, materials, and methods for deactivating toxic agents; Indian Pat. Appl. (2021), IN 202142053063 A 20211210.
22. Ranjith Siddaraj, Raghu Ningegowda, Govindappa Banuprakash, **Sandeep Chandrashekhharappa**; Synthesis and characterization of (s)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives and their secretory phospholipase a₂ (spla₂) inhibitor activity; Indian Pat. Appl. (2021); IN 202041042387 A 20212304 (Filed Date; 29-09-2020) or J. Ind. Pat. Office, Issue 17/2021, 23/04/2021, IN 202041042387 A. **Granted Patent No: 457614**, Date of Grant: 09/10/2023.
23. Jala VR, Bodduluri H, Singh R, Vemula PK, **Chandrashekhharappa S**, Hiwale AA. "Compounds, compositions, methods of using and methods for preparing compounds" **Granted US patent Pub No: US 2024/0173288 A1 Date: May. 30, 2024.**
24. Jala VR, Bodduluri H, Singh R, Vemula PK, **Chandrashekhharappa S**, Hiwale AA. "Compounds, compositions, methods of using and methods for preparing compounds" **Granted US patent Pub No: US 12,377,069 B2 Date: Aug. 05, 2025.**
25. Jala VR, Bodduluri H, Singh R, Vemula PK, **Chandrashekhharappa S**, Hiwale AA. "Compounds, compositions, methods of using and methods for preparing comopunds" International PCT Application: Application ref. number. 18034-03 (35783.04130) (Filed date: 14-05-2019): **Granted US patent Pub No: US 2021/0267932 A1 Date: Sep. 2, 2021.**
26. Vemula PK, Thorat K, **Chandrashekhharappa S**, Pandey S. "Compositions, materials, and methods for deactivating toxic agents" Sri Lankan Convectional Patent Application Number: 20419 (Filed date: 21-03-2019). **Granted Patent No: 20419** Date of Grant: 17/05/2023.
27. Katharigatta N. Venugopala, **Sandeep Chandrashekhharappa**, Pillay Melendhran, Bharti Odhav, Mohanlall Viresh, Kasumbwe kabange. Treatment of Tuberculosis: S. African (2021), **Granted ZA 2020003088 A** 20210630.

28. Raghu Ningegowda, **Sandeep Chandrashekhara**, Govindappa Banuprakash; N-(4-fluorophenyl)-5-phenyl-[1,2,4] triazolo [1,5-a] pyridine-2-carboxamide derivatives and their synthesis thereof; **Granted WO 2021/161084 A1**. International PCT Application no; PCT/IB2020/057045 (File date: 26-07-2020). (PCTIB2020057045).
29. Ranjith Siddaraj, Raghu Ningegowda, Govindappa Banuprakash, **Sandeep Chandrashekhara**; Synthesis and characterization of (s)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives and their secretory phospholipase a_2 (spla $_2$) inhibitor activity: PCT Application no; PCT/IB2021/052556 (File date: 27-03-2021). (PCTIB2021052556).
30. Katharigatta N. Venugopala, Mohamed A. Morsy, Keshab M. Bairagi, Susanta K. Nayak, Melendran Pillay, Pran Kishore Deb, **Sandeep Chandrashekhara**, Osama I. Alwassil. (6-Methyl-4-substitutedphenyl-2-oxo/thioxo-1,2,3,4-tetrahydropyrimidin-5-yl)(piperidin-1-yl)methanones as anti-tubercular agents. UNITED STATES Patent Application No. 18367645, September 13, 2023; Docket No. 33120.61U. **Granted US Patent 11,912,683, 2024, Date: Feb 27, 2024.**
31. Katharigatta N. Venugopala, Mohamed A. Morsy, Keshab M. Bairagi, Susanta K. Nayak, Melendran Pillay, Pran Kishore Deb, **Sandeep Chandrashekhara**, Osama I. Alwassil. (6-Methyl-4-substitutedphenyl-2-oxo/thioxo-1,2,3,4-tetrahydropyrimidin-5-yl)(piperidin-1-yl)methanones as anti-tubercular agents. **UNITED STATES Patent Application No. 18367635**, September 13, 2023; Docket No. 33125.74U. **Granted US Patent 11,986,476, 2024, Date: May 21, 2024.**
32. Katharigatta N. Venugopala, Pran Kishore Deb, Melendran Pillay, Vijaykumar Uppar, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, **Sandeep Chandrashekhara**, Basavaraj Padmashali. Substituted 7-methyl quinoline derivatives as anti-tubercular agents. **UNITED STATES Patent Application No. 18240256**, August 30, 2023; Docket No. 33125.66. **Granted US patent Pub No: US 11,926,627 B1, Date: Mar. 12, 2024.**
33. Katharigatta N. Venugopala, Pran Kishore Deb, Melendran Pillay, **Sandeep Chandrashekhara**, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Christophe Tratratt, Sheena Shashikanth, Vijaykumar Uppar, Basavaraj Padmashali. Ethyl 2-substitued-1-(substitutedbenzoyl)-7-methylpyrrolo[1,2-a]quinoline-3-carboxylates as anti-tubercular agents. **UNITED STATES Patent Application No. 18237273**, August 23, 2023; 33125.57U. **Granted US Patent 11,938,120, 2024, Date: Mar 26, 2024.**
34. Katharigatta N. Venugopala, Pran Kishore Deb, Melendran Pillay, **Sandeep Chandrashekhara**, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Christophe Tratratt, Sheena Shashikanth, Vijaykumar Uppar, Basavaraj Padmashali. Ethyl 2-substitued-1-(substitutedbenzoyl)-7-methylpyrrolo[1,2-a]quinoline-3-carboxylates as anti-tubercular agents. **UNITED STATES Patent Application No. 18237211**, August 23, 2023; 33120.2. **Granted US Patent 11,845,746, 2023, Date: Dec 19, 2023.**
35. Katharigatta N. Venugopala, Pran Kishore Deb, Melendran Pillay, **Sandeep Chandrashekhara**, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Vijaykumar Uppar, Raghu Prasad Mailavaram, Basavaraj Padmashali. 1-Substitutedbenzoyl-4-bromopyrrolo[1,2-a]quinoline-3-carboxylate derivatives as anti-tubercular agents. **UNITED STATES Patent Application No. 18236237**, August 21, 2023; Docket No. 33120.59. **Granted US patent Pub No: US 11,919,900 B1, Date: Mar. 05, 2024.**
36. **Katharigatta N. Venugopala**, Buccioni Michela, Gabriella Marucci, Pran Kishore Deb, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, **Sandeep Chandrashekhara**, Sheena Shashikanth. Adenosine receptor activity of methyl/ethyl 3-(substituted benzoyl)-6,8-dimethylindolizine-2-substituted-1-carboxylates. **UNITED STATES Patent Application No. 18230585**, dated August 8, 2023; Docket No. 33120.13S. **Granted US Patent 11,974,991, 2024, Date: May 07, 2024.**
37. Katharigatta N. Venugopala, Pran Kishore Deb, Melendran Pillay, **Sandeep Chandrashekhara**, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Christophe Tratratt, Sheena Shashikanth. Novel substituted phenyl quinolin-1-ium bromide derivative as antitubercular agents. **UNITED STATES Patent Application No. 18229825**, August 3, 2023; Docket No. 33120.3. **Granted US patent Pub No: US 11,884,631 B1, Date: Jan. 30, 2024.**
38. Katharigatta N. Venugopala, Bandar E. Aldhubiab, Mohamed A. Morsy, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Christophe Tratratt, **Sandeep Chandrashekhara**, Melendran Pillay, Pran Kishore Deb, Sheena Shashikanth. 7-18/ 1-ethyl/methyl 3-(substituted benzoyl)-2-substituted indolizine-1,7-dicarboxylates as anti-tubercular agents. **UNITED STATES Patent Application No. 18191407** dated March 30, 2023; Docket No. 33101.13U. **Granted US patent Pub No: US 11, 807, 640 B1 Date: Nov. 7, 2023.**
39. Katharigatta N. Venugopala, Pran Kishore Deb, Mohamed A. Morsy, Bandar E. Aldhubiab, **Sandeep Chandrashekhara**, Melendran Pillay. Production of 1-(2-(substituted phenyl)-2-oxoethyl)-4-(isopropoxycarbonyl)pyridin-1-ium bromides and their anti-tubercular activity. UNITED STATES Patent

- Application No. 18377542, 10-Oct-23; Docket No. 33130.32. **Granted US patent Pub No: US 11, 919, 860 B1 Date: Mar. 5, 2024.**
40. Katharigatta N. Venugopala, Pran Kishore Deb Mohamed A. Morsy, Bandar E. Aldhubiab, **Sandeep Chandrashekhharappa**, Melendran Pillay. 1-(2-(Substituted phenyl)-2-oxoethyl)-4-methylpyridin-1-ium bromide as anti-tubercular agents. UNITED STATES Patent Application No. 18377407, 6-Oct-23; Docket No. 33130.12. **Granted US patent Pub No: US 12, 227, 480 B1 Date: Feb. 18, 2025.**
 41. Katharigatta N. Venugopala, Mohamed A. Morsy, **Sandeep Chandrashekhharappa**, Melendran Pillay. 4-Cyano-1-(2-oxo-2-(substituted phenyl)ethyl)pyridin-1-ium bromides as anti-tubercular agents. UNITED STATES Patent Application No. 18384003, 26-Oct-23; 33135. **Granted US patent Pub No: US 12, 202, 801 B1 Date: Jan. 21, 2025.**
 42. Katharigatta N. Venugopala, Rahul D. Nagdeve, Pran Kishore Deb, Buccioni Michela, Gabriella Marucci, Susanta K. Nayak, **Sandeep Chandrashekhharappa**, Osama I. Alwassil, Rashmi Venugopala. Adenosine receptor activity of substituted benzoyl-7-methoxyindolizine-1-carboxylate analogues. UNITED STATES Patent Application No. 18386397, 2-Nov-23; 33135.9.
 43. Katharigatta N. Venugopala, **Sandeep Chandrashekhharappa**, Melendran Pillay, Pran Kishore Deb, Rashmi Venugopala. (E)-1-(2-(4-substitutedphenyl)-2-oxoethyl)-4-((hydroxyimino)methyl)pyridinium bromides as anti-tubercular agents. UNITED STATES Patent Application No. 18386017, 1-Nov-23; 33135.91. **Granted US patent Pub No: US 12, 215, 082 B1 Date: Feb. 04, 2025.**
 44. Katharigatta N. Venugopala, **Sandeep Chandrashekhharappa**, Melendran Pillay, Pran Kishore Deb, Rashmi Venugopala, Viresh Mohanlall. Development of (E)-3-(substitutedbenzoyl)-7-((hydroxyimino)methyl)-2-substitutedindolizine-1-carboxylate derivatives as anti-tubercular agents. UNITED STATES Patent Application No. 18/531,129, 6-Dec-23; 33135.92.
 45. Katharigatta N. Venugopala, **Sandeep Chandrashekhharappa**, Pran Kishore Deb, Osama I. Alwassil, Rashmi Venugopala. 7-Isopropyl 1-ethyl/methyl 3-(substituted benzoyl)-2-substituted indolizine-1,7-dicarboxylates as larvicidal agents. UNITED STATES Patent Application No. 18/500,084, 1-Nov-23; 33135.93. **Granted US Patent 11,981,674, 14052024, Date: May 14, 2024.**
 46. Katharigatta N. Venugopala, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahmoud Kandeel, Pran Kishore Deb, Rashmi Venugopala, Melendran Pillay, **Sandeep Chandrashekhharappa**, Osama I. Alwassil. 1-(2-(Substitutedphenyl)-2-oxoethyl)-3,5-dimethylpyridin-1-ium bromides as anti-tubercular agents. UNITED STATES Patent Application No. 18/492,723, 24-Oct-23; Docket No. 33130.96. **Granted US Patent 11,939,294, 2024, Date: Mar 26, 2024.**
 47. Katharigatta N. Venugopala, Melendran Pillay, Vijaykumar Uppar, Pran Kishore Deb, Rashmi Venugopala, **Sandeep Chandrashekhharappa**, Basavaraj Padmashali. Substituted 7-amino-3-(substituted benzoyl)indolizine-1-carboxylates as anti-tubercular agents. UNITED STATES Patent Application No. 18382829, 23-Oct-23; Docket No. 33135.14. **Granted US Patent 11,976,066, 2024, Date: May 07, 2024.**
 48. Katharigatta N. Venugopala, Vijaykumar Uppar, Rashmi Venugopala, **Sandeep Chandrashekhharappa**, Basavaraj Padmashali, Viresh Mohanlall. Ethyl-1-(substitutedbenzoyl)-5-methylpyrrolo[1,2-a]quinoline-3-carboxylates as anticancer agents. UNITED STATES Patent Application No. 18383407, 24-Oct-23; Docket No. 33135.56. **Granted US Patent 12,194,029, 14012025, Date: Jan 14, 2025.**
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121. Rajbir Singh, Bindu Hegde, Becca Von Baby, **C Sandeep**, Niranjan Kotla, Bhargavi Chandrasekar, Srujan Marepally, Haribabu Bodduluri, Praveen K Vemula and Venkatakrishna R Jala. Targeted delivery of microbial metabolite, urolithin A protects from chemically (DSS or TNBS) induced colitis in pre-clinical models. *J Immunol* May 1, 2017, 198 (1 Supplement) 65.6.
122. Boy, Kenneth M.; Guernon, Jason M.; Zhang, Yunhui; Zuev, Dmitry; Mandal, Sunil K.; **Chandrashekharappa, Sandeep**; K., Srinivasam D.; Baligar, Visweshwaraiah; Wu, Yong-Jin; Marcin, Lawrence; et al. Bicyclic pyrimidine modulators of Abeta production for the treatment of Alzheimer's disease. From Abstracts of Papers, 248th ACS National Meeting & Exposition, San Francisco, CA, United States, August 10-14, 014 (2014), MEDI-265.
123. Subhashini Pandey, **Sandeep Chandrashekharappa**, Ketan Thorat, Tanu Jain and Praveen K Vemula. Investigating the structure-activity relationship of amphiphilic nucleophiles to hydrolyze major classes of pesticides in micellar medium; DOI: 10.4172/2577-0268-C2-005.

Publication of Books/Chapter:

S. NO	Book title, editor, year	Page Numbers	Publishers International ISSN / ISBN No.	First/ corresponding author
1	Quantum Biosensing in Medical Diagnostics Quantum Sensing in Metabolomics	285-307	https://doi.org/10.1002/9781394339006.ch14 139433897X, 9781394338979 Publisher: Wiley	Gnanesh Rao, Priya Tiwari, Raghu Ningegowda, B.P. Nandeshwarappa, Sandeep Chandrashekharappa*
2	Quantum Biosensing in Medical Diagnostics Neurodiagnostics: Quantum Approaches to Brain Health	163-180	DOI: 10.1002/9781394339006.ch8 139433897X, 9781394338979 Publisher: Wiley	Brikshadipa Mandal, Subrata Barick, Sandeep Chandrashekharappa*
3	Advancements in Voltammetry for Biosensing Applications Brief Overview of Voltammetry for Biosensing Applications	45-62	https://doi.org/10.1007/978-981-96-2595-6_3 ISSN: 978-981-96-2595-6 Publisher: Springer	Pranjalee Gopal Mahajan, Anjali Yadav, Priya Tiwari & Sandeep Chandrashekharappa*
4	Advancements in Voltammetry for Biosensing Applications Review on Voltammetry	1-16	https://doi.org/10.1007/978-981-96-2595-6_1 ISSN: 978-981-96-2595-6 Publisher: Springer	Kuna Divya Vani, Sandya Tambi Dorai, & Sandeep Chandrashekharappa*
5	Additively Manufactured Electrochemical Sensors: Design, Performance, and Applications Nexus of Additive Manufacturing and	55-81	https://doi.org/10.1002/9781394303434.ch3 Print ISBN:9781394303366 Online ISBN:9781394303434 Publisher: Wiley	Puja Kumari ; Sandeep Chandrashekharappa*

	Sensing for 3D-Printed Electrochemical Sensors			
6	<u>Agricultural Electrochemistry.</u> Chapter 14 Real-World Applications of Agricultural Electrochemistry	369-387	DOI: 10.1021/bk-2025-1496.ch014 EPUB ISBN: 9780841296510 Publisher: ACS	Gnanesh Rao, Raghu Ningegowda, B.P. Nandeshwarappa, Priya Tiwari, Sandeep Chandrashekharappa*
7	Biosensing Technology for Human Health: Eco-friendly Materials and Real-world Applications <u>Chapter 15: Biosensors for the Quantification of Flavonoids</u>	386-401	Doi: https://doi.org/10.1039/9781837676323-00386 Hardback ISBN: 978-1-83767-421-3 EPUB ISBN: 978-1-83767-633-0 PDF ISBN: 978-1-83767-632-3 Publisher: RSC	<u>Tanima Dudani</u> ; <u>Surbhi Mahender Saini</u> ; Sandeep Chandrashekharappa*
8	Biosensing Technology for Human Health: Eco-friendly Materials and Real-world Applications <u>Chapter 18: Detection of Psychotomimetic Drugs in Beverages and Food</u>	460-472	Doi: https://doi.org/10.1039/9781837676323-00460 Hardback ISBN: 978-1-83767-421-3 EPUB ISBN: 978-1-83767-633-0 PDF ISBN: 978-1-83767-632-3 Publisher: RSC	Sumanth Gopavaram ; Sandeep Chandrashekharappa*
9	Examining Biological Relevance of Fused S-Heterocycles Biological Relevance of Five Membered Fused Heterocycle Imidazothiazole		ISBN13: 9798369375204 EISBN13: 9798369375228 DOI: 10.4018/979-8-3693-7520-4.ch001 Publisher: IGI Global	Subrata Barick , Kaustav Dhara, Sandeep Chandrashekharappa*
10	S-Heterocycles: Retrospect, Prospects, and Biological Applications Synthesis, Properties, and Therapeutic Applications of Dithiazoles	30-56	Hardback ISBN: 978-1-83767-401-5 PDF ISBN: 978-1-83767-485-5 EPUB ISBN: 978-1-83767-486-2 Doi: https://doi.org/10.1039/9781837674015-00030 Publisher: RSC	Subrata Barick , Titiksha Kumar Sagar , Sandeep Chandrashekharappa*
11	S-Heterocycles: Retrospect, Prospects, and Biological Applications Synthesis, Properties, and Biological Applications of Benzothiazepines	282-314	Hardback ISBN: 978-1-83767-401-5 PDF ISBN: 978-1-83767-485-5 EPUB ISBN: 978-1-83767-486-2 Doi: https://doi.org/10.1039/9781837674015-00282 Publisher: RSC	Puja Kumari ; Yashi Dwivedi ; Sandeep Chandrashekharappa*
12	<u>Surfactant Based Electrochemical Sensors and Biosensors</u>	3-20	https://doi.org/10.1016/B978-0-443-15493-5.00018-X ISBN: 9780443154935	Surbhi, Titiksha Kumar Sagar, Yashi Dwivedi ; Sandeep

	Brief overview of surfactants, properties, classification, passivation, and role in chemistry		Publisher: Elsevier:	Chandrashekhharappa*
13	Advances in Surfactant Biosensor and Sensor Technologies. Surfactant-Modified Electrodes for Detection of Vitamins	119-133	ISBN: Print ISBN 978-3-031-60831-5 Online ISBN 978-3-031-60832-2 https://doi.org/10.1007/978-3-031-60832-2_6 Publisher: Springer Nature	<u>Priya Tiwari</u> & Sandeep Chandrashekhharappa*
14	Advances in Surfactant Biosensor and Sensor Technologies. Food Quality Assessment Through Surfactant Sensors	189-204	ISBN: Print ISBN 978-3-031-60831-5 Online ISBN 978-3-031-60832-2 https://doi.org/10.1007/978-3-031-60832-2_10 Publisher: Springer Nature	<u>Sandya Tambi Dorai</u> , <u>Yashi Dwivedi</u> & Sandeep Chandrashekhharappa*
15	Novel Nanostructured Materials for Electrochemical Bio-sensing Applications Organometallic and biomass-derived nanostructured materials for biosensing applications	57-78	ISBN: 978-0-443-15334-1 Publisher: Elsevier https://doi.org/10.1016/B978-0-443-15334-1.00004-3	Gopavaram Sumanth and Sandeep Chandrashekhharappa*
16	Novel Nanostructured Materials for Electrochemical Bio-sensing Applications Nanostructured materials-based electrochemical biosensors for hormones	505-524	ISBN: 978-0-443-15334-1 Publisher: Elsevier https://doi.org/10.1016/B978-0-443-15334-1.00017-1	Gnanesh Rao, Raghu Ningegowda, B.P. Nandeshwarappa, M.B. Siddesh and Sandeep Chandrashekhharappa*
17	Graphene-Based Sensors Chapter:08 Graphene-based sensing platform for analysis of food flavours and additives	Pages 8-1 to 8-16	Online ISBN: 978-0-7503-5578-0 • Print ISBN: 978-0-7503-5577-3 https://doi.org/10.1088/978-0-7503-5578-0ch8 Publisher: IOP Science	Raunak Katiyar, Yashi Dwivedi, Titiksha Kumar Sagar and Sandeep Chandrashekhharappa*
18	Surfactant-based Sensors in Chemical and Biochemical Detection Chapter:08 Surfactant Sensors for Food Quality Monitoring	149-162	Hardback ISBN: 978-1-83767-116-8 PDF ISBN: 978-1-83767-118-2 EPUB ISBN: 978-1-83767-119-9 DOI: https://doi.org/10.1039/9781837671182 Publisher: RSC	Sandya Tambi Dorai ; Priya Tiwari ; Yashi Dwivedi ; Sandeep Chandrashekhharappa*

19	<u>Recent Developments in Green Electrochemical Sensors: Design, Performance, and Applications</u> Microfluidic Systems for Voltammetric Detection Using Paper-Based Sensors	Chapter 15pp 367-385	American Chemical Society ISBN13: 9780841297227 eISBN: 9780841297210 DOI: 10.1021/bk-2023-1437.ch015	Gnanesh Rao, Raghu Ningegowda, B. P. Nandeshwarappa, and Sandeep Chandrashekhara *
20	<u>Advanced Drug Delivery Strategies for Targeting Chronic Inflammatory Lung Diseases</u> Clinical Trials on Novel Advanced Drugs for Chronic Respiratory Disorders	pp 623-655	Print ISBN 978-981-16-4391-0 Online ISBN 978-981-16-4392-7 https://doi.org/10.1007/978-981-16-4392-7_27 Publisher Name; Springer Nature	Kiran Kumar Mudnakudu-Nagaraju, Mrudula M.Mohan, Sandeep Chandrashekhara , Raghu Ningegowda
21	Functionalized Nanomaterial-Based Electrochemical Sensors Advantages and limitations of chapter:09: functionalized nanomaterials based electrochemical sensors environmental monitoring	165-174	elsev.spi-global.com/books ISBN: 978-0-12-823788-5 https://doi.org/10.1016/B978-0-12-823788-5.00016-8 (https://elsev.spi-global.com/books/EComp/WPEO_HUSSAIN-MANJUNATHA978-0-12-823788-5/1/OTc4LTAtMTIt/index.php?Type=E)	Balaji Maddiboyina, OmPrakash Sunaapu, Sandeep Chandrashekhara *, and Gandhi Sivaraman
22	<u>Carbon Nanomaterials-Based Sensors</u> Fabrication of disposable sensor strips for point-of-care testing of environmental pollutants	77-94	ISBN: 978-0-323-91174-0 (Online) eBook ISBN: 9780323984195 https://doi.org/10.1016/B978-0-323-91174-0.00024-X Elsevier	Gnanesh Rao, AkhileshRao, B, P Nandeshwarappa, Raghu Ningegowda, Kirankumar MN, and Sandeep Chandrashekhara *
23	Voltammetry for Sensing Applications Optimised Voltammetric Approaches for Clinical Sample Analysis	158-176	ISBN: 978-981-5039-71-9 (Online) ISBN: 978-981-5039-72-6 () (Bentham Science) • DOI: 10.2174/9789815039719122010008	Gnanesh Rao, Raghu Ningegowda, Siddesh, M.B, Kirankumar MN, and B, P Nandeshwarappa and Sandeep Chandrashekhara *
24	Polyimides	108	Doi:10.5772/intechopen.94672 eBook (PDF) ISBN 978-1-83969-886-6 28 September 2022	B, P Nandeshwarappa and Sandeep Chandrashekhara *
25	The Chemistry of Prostaglandins Year 2015	1-70	Abhijith Publications, ambika bhawan, 21, Ansari Rd, Daryaganj, New Delhi, Delhi 110006. ISBN: 9789350742433	Basavaraj Padmashali and Sandeep C
26	Organic Reactions	1-160	Abhijith Publications, ambika bhawan, 21, Ansari Rd,	Sandeep C and Basavaraj

	Year 2015		Daryaganj, New Delhi, Delhi 110006. ISBN; 9789350742440	Padmashali
27	Organic structure elucidation using NMR spectra Year 2015	1-80	Abhijith Publications, ambika bhawan, 21, Ansari Rd, Daryaganj, New Delhi, Delhi 110006. ISBN; 9789359732457	Gururaja GN and Sandeep C
29	Biomolecule: The current Status and future perspectives: Synthesis and Pharmaceutical Applications of Oxadiazole. Page No:99-114	99-114	Today and Tomorrow's Printers and Publishers, New Delhi-110002 ISBN 10: 81-7019-702-2 and ISBN 10: 9788170197027	Raghu Ningegowda, Sandeep C , Kirankumar MN, and B, P Nandeshwarappa
30	Essential of Biomolecules, Indolizine analogues as anti-inflammatory drugs	67-84	NARENDRA PUBLISHING HOUSE <i>Publisher and Distributor</i> , C-21, Varun Apartments, Sector-9, Rohini, Delhi- 110085 (INDIA) ISBN : 978-93-90611-96-6	Sandeep Chandrashekhara , Kiran K. Mudnakudu-Nagaraju, Raghu Ningegowda, B. P. Nandeshwarappa
31	Synthesis and Biological Applications of Imidazole Derivatives.	75-86	JAYA PUBLISHING HOUSE Publisher and Distributor H-1/60, Sector – 16, Rohini, Delhi-110089 (INDIA) ISBN: 978-93-90611-97-3	J.P. Shubhaa*, Raghu Ningegowdab*, Sandeep Chandrashekhara , and Nandeshwarappa B. P
32	Organic Molecules: Efficacy, Remedies and Therapeutics, Synthesis of 3-acetyl-2H-selenopyrano[2,3-b]quinolin-2-one A Potent Antibacterial Agent	1-21	JAYA PUBLISHING HOUSE Publisher and Distributor H-1/60, Sector – 16, Rohini, Delhi-110089 (INDIA) ISBN: 978-93-90611-97-3	B. P. Nandeshwarappa, Sandeep Chandrashekhara , S. O. Sadashiv and Sharangouda J. Patil and Manjunath S. Katagi
33	Organic molecules Efficacy, Remedies and Therapeutics. Synthesis of 3-acetyl-2H-selenopyrano[2,3-b]quinolin-2-one A Potent Antibacterial Agent		JAYA PUBLISHING HOUSE Publisher and Distributor H-1/60, Sector – 16, Rohini, Delhi-110089 (INDIA) ISBN: 978-93-90611-97-3	B. P. Nandeshwarappa, Sandeep Chandrashekhara , S. O. Sadashiv

Invited Talks

Sl no	Year	Conference/Seminars/ Workshops/Symposia/ Trainings	Title of paper presented/ Delivered Lecture/ Chaired Sessions
1	2023	International Conference on Chemical Sciences ICCS – 22,23-June-2023, Christ Academy Institute for Advanced Studies Bangalore 560083	Indolizine: Future Promising Antitubercular Scaffold
2	2023	Certificate course and Hands-on training on “Small Molecule and Biomolecule Characterization using Advanced Instruments” NIPER Raebareli held on 07 Aug to 11 Aug 2023 .	Expert talk on Flash Chromatography and Its Application
3	2023	Three days International Conference on New Horizons in Drugs, Devices & Diagnostics: 14 to 16 September 2023; at Kanha Shanti Vanam, Hyderabad	Chaired for Poster Evaluator

4	2023	International Conference on One Health: Biotechnology as a Catalyst for Sustainable Development 7 th – 9 th Dec 2023, School of Life Sciences, JSS AHER, Mysuru	Novel Indolizine Derivatives: Design, Synthesis and Anti-tubercular Potential
5	2023	International Conference on One Health: Biotechnology as a Catalyst for Sustainable Development 7 th – 9 th Dec 2023, School of Life Sciences, JSS AHER, Mysuru	Chaired for Oral presentation
6	2026	One-day hands-on training on Fluorescence Spectrophotometer NIPER Raebareli held on 16 Jan 2026.	Expert talk on Synthesis and Photoluminescence Properties of Tricyclic Benzofuro[2,3- <i>c</i>]pyridin-3-ol Derivatives
7	2026	Two-Day International Conference on Current Innovations in Chemical and Applied Sciences (CICAS-2026) 5 th & 6 th February, 2026. Bangalore University, Bengaluru-560 056	Invited lecture on Indolizine Chemotypes as Novel Antitubercular Leads

Professional Meetings (Conferences):

CONFERENCES/SEMINARS/WORKSHOPS/SYMPOSIA/TRAINING PROGRAMMES ATTENDED :				
Sl no	Year	Authors	Conference/Seminars/ Workshops/Symposia/ Trainings attended	Title of paper presented/ Delivered Lecture/ Chaired Sessions
1	2004	Sandeep C	National Conference	Recent Advances in Electrochemical and surfaces science for industry an society,
2	2013	Sandeep C, Sunil Kumar Manadal, DK Srinivasan, Vishweshwaraiah B.	National Conference	Synthesis of novel Pyrimidine derivatives for Alzheimer disease.
3	2013	Sumaiya T, Suresha Kumara T. H, Sandeep C, ...et.al, Sowmya H. B. V.	National Conference	Synthesis of novel quinoline derivatives.
4	2014	Sandeep C, Basavaraj Padmashali.	National Conference (DST Sponsored) 21-04-2014 in Sahyadri college shimoga.	Efficient synthesis of indolizines and new imidazo[1,2- <i>a</i>]pyridines via the expected cyclization of aromatic cycloimmonium ylides with electron deficient alkynes and ethyl cyanoformate
5	2014	Sandeep C, Basavaraj Padmashali.	National Seminar (DST Sponsored) 21-04-2014 in Sahyadri college shimoga.	Synthesis of Isomeric Substituted 6-acetyl-3-benzoylindolizine-1-carboxylate and 8-acetyl-3-benzoylindolizine-1-carboxylate from substituted 3-acetyl pyridinium bromides and their antimicrobial activity
6	2014	Sandeep C	National conference	Chem Thrust one day symposium.
7	2014	Sandeep C	National Conference (UGC-CPE Sponsored)	Emerging Trends in chemical and pharmaceutical sciences.
8	2014	Sandeep C	National Conference (UGC Sponsored)	Recent Trends in medicinal Chemistry
9	2014	Sandeep C	Faculty development program. 18 & 19-07-2014.	Two days Faculty development program on Pedagogy and innovations.
10	2014	Boy, Kenneth M.; Dmitry;	248th ACS National Meeting &	Bicyclic pyrimidine modulators of A-

		Mandal, Sunil K.; Chandrashekhara , Sandeep et.al.,... Thompson, Lorin A.	Exposition, San Francisco, USA, (August 10-14, 2014) Published in <i>ACS</i> Washington DC.	beta production for the treatment of Alzheimer's disease
11	2015	Sandeep C , Basavaraj Padmashali.	National conference 14 and 15-03-2015 Kuvempu university Shimoga	Efficient synthesis and characterization of ethyl 7-acetyl-2-substituted-3- (substitutedbenzoyl)indolizine-1- carboxylates for <i>in-vitro</i> anti-tubercular and anti-cancer activity
12	2015	Sandeep C	Faculty development program 3 rd Feb 2015	One days Faculty development program on Research Methodology.
13	2016	Sandeep C	7 Days 92 nd National Workshop	Radiochemistry and applications of radioisotopes. Jointly DAE and BRNS.
14	2017	Sandeep C	ICEPE-2017 International Conference 16-17 Feb	International conference ICEPE-2017 at Jyoti Nivas college autonomous Bangalore
15	2017	Ketan T, Subhashini P, Sandeep C ,...et.al, Praveen K. Vemula.	March 6-8, 2017 Instem, NCBS, TIFR Bangalore. National Conference.	Nucleophilic dermal cream-mediated deactivation of pesticides on the skin to prevent pesticide-induced toxicity
16	2017	Rajbir Singh, Bindu Hegde, Becca Von Baby, C Sandeep , ...et.al. Praveen K Vemula and Venkatakrishn a R Jala.	Immunology 2017, AAI, Washington, DC, USA. Published in <i>J Immunol</i> , May 2017, 198 (1 Supplement) 65.6	Targeted delivery of microbial metabolite, Urolithin A protects from chemically (DSS or TNBS) induced colitis in pre-clinical models.
17	2017	Sandeep C	National Conference held at Ranichennama University Belagavi, 14 th Oct 2017.	National Symposium on University- Industry Interaction to promote Technology Transfer & Entrepreneurship.
18	2018	Subhashini Pandey [#] , Sandeep Chandrashekhara [#] , Tanu Jain, Ketan Thorat , Harini Raghavan and Praveen K. Vemula* [#] Equal contribution	Feb 26-28 2018	Investigating the structure-activity relationship of amphiphilic nucleophiles to hydrolyze major classes of pesticides in micellar medium
20	2018	Vijayakumar Uppar, Sandeep Chandrashekhara and Basavaraj Padmashali*	International Conference on Advancement in Science and Technology (ICAST-2018) 3 rd and 4 th Sept 2018, Shanthiniketan, India	Eco-friendly synthesis of Indolizine Derivatives
21	2018	Sandeep Chandrashekhara , Vijayakumar Uppar and Basavaraj Padmashali*	UGC-CPE Sponsored National Conference, Emerging Trends in Material Science, 5 th Oct 2018, KLE- College, Bangalore.	Synthesis of New Indolizine Derivatives from Eco-friendly method.

22	2018	Vijayakumar Uppar, Sandeep Chandrashekharappa and Basavaraj Padmashali*	UGC-CPE Sponsored National Conference, Emerging Trends in Material Science, 5 th Oct 2018, KLE-College, Bangalore.	Eco-friendly synthesis of Pyrrolo[1,2a] Quinoline Derivatives
23	2019	Vijayakumar Uppar, Sandeep Chandrashekharappa , Katharigatta N. Venugopala and Basavaraj Padmashali ^a *	National level Conference on recent advances in material science. 1 st and 2nd Feb 2019, NMKRV College Bangalore	Synthesis of novel derivatives of benzo-fused indolizine and their larvicidal activity against <i>anopheles arabiensis</i>
24	2019	Sandeep Chandrashekharappa , Vijayakumar Uppar, Vinod G and Basavaraj Padmashali*	CPE Sponsored National level Conference on recent advances in material science. 5 th Feb 2019. Field Marshal College Madikeri.	Synthesis of Novel Derivatives of Indolizine with Eco-friendly method.
25	2019	Vijayakumar Uppar, Sandeep Chandrashekharappa, Vinod G and Basavaraj Padmashali*	CPE Sponsored National level Conference on recent advances in material science. 5 th Feb 2019. Field Marshal College Madikeri.	Novel Synthesis of Indolizine Derivatives.
26	2019	Sandeep Chandrashekharappa ^a *, Vijayakumar Uppar, Vinod G and Basavaraj Padmashali	SJB Institute of Technology Bangalore 04-05-2019	NEW APPROACH FOR SYNTHESIS OF INDOLIZINE WITH GREENERY METHOD
27	2019	Vijayakumar Uppara, Sandeep Chandrashekharappa*, Atiya Basarikattia, Basavaraj Padmashali	ICAMR 2019 in Ramaiah University Bangalore July 26 to 28 2019	Synthesis, anti-bacterial and antioxidant properties of ethyl 7-amino-3-benzoylindolizine-1-carboxylate derivatives.
28	2019	Raghu Ningegowda*, Sandeep Chandrashekharappa	One Day Symposium in Indian Academy of Science Bangalore 29-07-2019	Chemical Synthesis, Characterization of substituted 1, 2, 4-triazole-3-thiol derivatives and their role as dual Akt / mTOR inhibitors which inhibits growth and induces apoptosis through the suppression of Akt / mTOR pathways of hepatocellular carcinoma.
29	2019	Raghu Ningegowda*, Sandeep Chandrashekharappa	International Conference on "Recent Advantages in Applied Sciences (ICRAAS-2019)" held at REVA University, Bengaluru on 17-18 October 2019.	Chemical synthesis, characterization of 1,2,4 triazole-3-thiol derivatives

30	2019	Raghu Ningegowda*, Sandeep Chandrashekhara	1 st International Conference on “Life, Chemical and Health Sciences (ICLCHS)” held at Ramaiah College of Arts, Science & Commerce in collaboration with Karnataka Science and Technology (KSTA), Bengaluru on 24 th -26 th October 2019.	Multistep synthesis, characterization and pharmacological properties of novel N-(4-fluorophenyl)-5-phenyl-[1,2,4] triazolo[1,5-a]pyridine-2-carboxamide
31	2019	Sandeep Chandrashekhara *, Raghu Ningegowda	International Conference on Innovations and Challenges in Science and Technology (ICICST-2019) 19 th -23 rd December 2019 held at Don Bosco Institute of Technology.	Synthesis of Tetrahydropyrimidinones for studies of their Thymidylate Kinase Inhibitors Exerting Potent Anti-TB Activity against <i>Mycobacterium Tuberculosis</i>
32	2019	Raghu Ningegowda*, Sandeep Chandrashekhara	International Conference on Innovations and Challenges in Science and Technology (ICICST-2019) 19 th -23 rd , December-2019 held at Don Bosco Institute of Technology.	Synthesis, antibacterial and antioxidant properties of ethyl 7-amino-3-benzoyl-2-methylindolizine-1-carboxylate-carboxylate derivative”
33	2020	Raghu Ningegowda*, Sandeep Chandrashekhara	107 India Science Congress held at UAS-GKVK Banaglore Jan03-07-2020	“Microwave-assisted synthesis of 1,2,4-triazole derivatives and their biological evaluation.”
34	2020	Sandeep Chandrashekhara *, Raghu Ningegowda, Vinod G	National conference on Recent advances in chemical biology and material Engineering at Veerashaiva College, Bellary on 30 and 31st January 2020.	Synthesis and characterization of Substituted 7-Methyl and 7-Formylindolizines with their Pharmacological Applications.
35	2020	Sandeep Chandrashekhara *, Raghu Ningegowda, Vinod G	National level Conference on Recent Novel Approaches in Chemical Sciences 12 th Feb 2020. Field Marshal College Madikeri.	Synthesis and pharmacological properties of Substituted Tetrahydropyrimidinones
36	2020	Sandeep Chandrashekhara	Two Weeks' National Level faculty development program. 03 rd June to 16 June 2020.	Two Weeks' National Level FDP on "Multimedia and Drawing" in Association with IIT Bombay (Remote learning through spoken tutorial)
37	2020	Sandeep Chandrashekhara	Science Leadership Workshop India's first leadership program Science Academics	Science leadership workshop organized by central university of Punjab, bathinda, India, from June 22 nd to June 28 2020.
38	2020	Sandeep Chandrashekhara	National Webinar Series (NWS)-2020 from 15 th -21st June 2020	National Webinar Series (NWS)-2020 on “Immunity and infection: Biochemical approaches to therapies” from 15 th -21st June 2020
39	2020	Sandeep Chandrashekhara	East West Institute of Technology All India Council for Technical Education, New Delhi, Karnataka State Council for Science and Technology (KSCST), Indian Institute of Science Campus, Bengaluru, Cell	5-Day Web Conference on Intellectual Property Rights and Innovations 23 rd to 27 th June 2020

			for IPR Promotion and Management (CIPAM), DPIIT, GOI, New Delhi.	
40	2020	Sandeep Chandrashekharappa	One Week Online Faculty Development Program on "Higher Education 2020: Requirements & Expectations" 8th July to 12th July, 2020.	Organized by the Internal Quality Assurance Cell, TPCT's College of Engineering, Osmanabad . 8th July to 12th July, 2020.
41	2022	<u>Surbhi Mahender Saini</u> , Dr. Sandeep Chandrashekharappa	Conference attended: 27th ISCB International Conference (ISCBC-2022) Research and Innovation in Chemical, Pharmaceutical and Biological Sciences 16th - 19th November, 2022 at Birla Institute of Technology, Mesra, Ranchi, India	Domino Synthesis of Novel 3-Alkenyl Benzofuran Derivatives- Base Mediated Condensation Cascade Reaction: A Greener Approach
42	2022	<u>Sondarya Shende</u> , Sandeep Chandrashekharappa*	Conference attended: 27th ISCB International Conference (ISCBC-2022) Research and Innovation in Chemical, Pharmaceutical and Biological Sciences 16 th - 19 th November, 2022 at Birla Institute of Technology, Mesra, Ranchi, India	Synthesis and Structural Elucidation of Novel Indolizine Derivatives as an anti-tubercular Agent: In-silico Target Identification Through Molecular Modeling and Computational Approach.
43	2022	<u>Harshada Rambaboo Singh</u> , Sandeep Chandrashekharappa*	NIPER-PHARMACON-2022 International Conference on "Recent Trends and Future Opportunities in Pharmaceuticals" 10-12 Nov 2022, NIPER Mohali, Punjab,	Synthesis, Characterization and Anti-tubercular activity of ethyl-3-benzoyl-7-(trifluoromethyl) indolizine-1-carboxylate analogues and in silico study for prospective molecular target identification.
44	2022	<u>Rahul D. Nagdeve</u> ¹ , <u>Katharigatta N. Venugopala</u> ² , Sandeep C ³ , <u>Pradeep K. Mondal</u> ⁴ , <u>Khatendra T. Reang</u> ¹ , <u>Keshab M. Bairagi</u> ¹ , <u>Maurizio Polentarutti</u> ⁴ and <u>Susanta K. Nayak</u> ^{1*}	49th National Seminar on Crystallography (49th NSC) Org. by The Chemical Crystallography Laboratory, Department of Physics, University of Jammu (November 28-30th 2022)	Synthesis, crystal structure, molecular docking, and anti-tubercular activity study of ethyl 7-methoxy-3-(4-substituted benzoyl)indolizine-1-carboxylate derivatives
45	2023	<u>Sunitaben M. Gayakvad</u> , Sandeep Chandrashekharappa*	2nd International Conference on Multidisciplinary Research Towards Sustainable Development organized by Indian Academicians and Researchers Association Feb 5th 2023.	Efficient Synthesis and Characterization of 3,5-Di-Chloroindolizine Carboxylates via [3+2] Cycloaddition Reaction
46	2023	<u>Raunak Katiyar</u> , Sandeep Chandrashekharappa*	Feb 24-25 2022	(Synthesis and Characterization of Novel 7-chloropyrrolo[1,2-a] Quinoline-3-Carboxylate Analogues: Molecular Target Identification)
47	2023	<u>Surbhi Mahender Saini</u> ¹ , <u>Priyanka Mundhe</u> ¹ , <u>Saqib Kidwai</u> ² , <u>Harshada Rambaboo Singh</u> ¹ , <u>Ramandeep Singh</u> ^{2*} and	Three Days Symposium on; Towards End TB: Achievements, Challenges, and Future Directions: THSTI, Faridabad, date 23-25 March 2023.	Design, Synthesis, Characterization, and Anti-tubercular Activity of Novel Difluoroindolizine Derivatives

		Sandeep Chandrashekhharappa^{1*}		
48	2023	Priya Tiwari ¹ , Gayakvad Sunitaben Mangubhai ¹ , Saqib Kidwai ² , Ramandeep Singh ^{2*} , Sandeep Chandrashekhharappa^{1*}	Three Days Symposium on; Towards End TB: Achievements, Challenges, and Future Directions: THSTI, Faridabad, date 23-25 March 2023.	Synthesis, Characterization, and Anti-tubercular Activity of Novel 7-Morpholinoindolizine Derivatives
49	2023	<u>Sandya Tambi Dorai</u> , Kyatagani Lakshmikanth, Surbhi Mahender Saini, Sandeep Chandrashekhharappa*	Three Days Symposium on; Towards End TB: Achievements, Challenges, and Future Directions: THSTI, Faridabad, date 23-25 March 2023.	Michael-Aldol Cyclization Cascade to make pyridines: Use of Electron-Deficient Acetylenes for the Synthesis of Indolizines.
50	2023	Priya Tiwari¹ , Gayakvad Sunitaben Mangubhai ¹ , Saqib Kidwai ² , Ramandeep Singh ^{2*} , Sandeep Chandrashekhharappa^{1*}	National Students Research Symposium (NSRS) 2023, at NIPER Mohali, Date 10-12 Aug 2023	Antitubercular Evaluation of Pyrrolo[1,2- <i>a</i>]pyrazine Derivatives
51	2023	<u>Titiksha Kumar Sagar¹</u> , Sandya Tambi Dorai ¹ , Kyatagani Lakshmikanth ¹ , Priya Tiwari ¹ , Dr. Ramandeep Singh ^{2*} , Dr. Sandeep Chandrashekhharappa^{1*} .	Three-day International Conference on New Horizons in Drugs, Devices & Diagnostics: 14 to 16 September 2023; at Kanha Shanti Vanam, Hyderabad	Synthesis and Characterization of Substituted Indolizine Compounds: Molecular Docking and Anti-tubercular Activity
52	2023	Surbhi Mahender Saini, Sandeep Chandrashekhharappa*	Three-day International Conference on New Horizons in Drugs, Devices & Diagnostics: 14 to 16 September 2023; at Kanha Shanti Vanam, Hyderabad	Convenient Synthetic Protocol for Flavones and 2-Alkyl Chromones: A Shorter Route to the Preparation of Chrysin and Tectochrysin
53	2023	Rashi Rathore, Prajjwal Kushwaha, Abhishek Dey, Sandeep Chandrashekhharappa* , and Nidhi Shrivastava	Three-day International Conference on New Horizons in Drugs, Devices & Diagnostics: 14 to 16 September 2023; at Kanha Shanti Vanam, Hyderabad	Exploring the anti-inflammatory properties of novel synthetic indolizine derivatives using in silico and in vitro analysis.
54	2026	Jyoti Trivedi, Sandeep Chandrashekhharappa , Awesh K Yadav*.	3-day International Conference entitled "Green NanoCon: Pioneering Sustainable Nanotechnology and Chemistry," scheduled from 16th to 18th February 2026 at Amity University, Lucknow Campus,	Synthesis and characterization of lactoferrin-functionalized modified pullulan- magnesium oxide nanocomposites of phenolic phytoconstituent as targeted delivery for the management of Alzheimer's disease
55	2026	Priya Tiwari , Shweta Tripathi, Sandeep Chandrashekhharappa*	Two-days International Conference on "Advanced Research: AI-Powered Revolution in Pharmaceutical & Biological Sciences" 21 & 22 Feb 2026 Axis institute of pharmacy, Kanpur, Uttar Pradesh 209402	Efficient One-Pot Synthesis and Multitarget Biological Profiling of Poly-functionalized indolizines
56	2026	Gitika Guliani, Priya Tiwari, Sandeep Chandrashekhharappa*	Two-days International Conference on "Advanced Research: AI-Powered Revolution in Pharmaceutical & Biological Sciences" 21 & 22 Feb 2026 Axis institute of pharmacy, Kanpur, Uttar Pradesh 209402	Exploring Dihydro-quinazolinone Scaffolds as Anti-tubercular Chemotypes

57	2026	Surbhi, Sandeep Chandrashekharappa*	International Conference on Organic Synthesis and Advanced Materials (IC-OSAM 2026), NIT Warangal 26 th to 28 th February 2026.	Cascade Chemistry Meets Photophysics: Access to Highly Luminescent Benzofuro-Pyridine Scaffolds
58	2026	Surbhi, Sandeep Chandrashekharappa*	RSCPoster2026 Royal Society of Chemistry	“Divergent Synthesis of Fused Bicyclic and Tricyclic Ring Systems Using 2’-Hydroxy Ethyl Cinnamate: Access to High Quantum-Efficient Fluorophores.”
59	2026	Priya Tiwari, Sandeep Chandrashekharappa*	ABHIVYAKTI '26, STARTUP INCUBATION & INNOVATION CENTRE (SIC). Main Auditorium, IIT Kanpur Campus, Kanpur, 20 th and 21 st March 2026.	Adamantyl Urea Derivatives as MmpL3 Inhibitors: A New Avenue for the Treatment of Drug-Resistant Tuberculosis
60	2026	Priya Tiwari, Sandeep Chandrashekharappa*	Poster and Compendium Vigyan tech 2026 @National Technology Day 2026 on 11 May 2026.	A One-pot Process for Preparation of 2-Substituted-1 <i>H</i> -benzo[d]imidazole Derivatives

Declaration:

I hereby declare that the above information furnished is true and correct to the best of my knowledge and belief.

Date: 14-07-2026

Place: Lucknow

Sandeep Chandrashekharappa