

## CURRICULUM VITAE

### Dr. Sandeep Chandrashekarappa

#### Address;

Assistant Professor, Department of Medicinal Chemistry,  
National Institute of Pharmaceutical Education and Research, Raebareli, (NIPER-R)  
(An Institute of National importance) Department of Pharmaceuticals,  
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Profile URL: <https://niperraebareli.irins.org/profile/261128>

<http://www.scopus.com/authid/detail.url?authorId=57212276775>

#### 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](mailto: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](#) 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](mailto:c.sandeep@niperraebareli.edu.in), mob: 9448639413. <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](mailto: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 = Nil	Projects Completed = 01	Projects as Host Researcher = Nil
Total List of Publications in SCI journals = ~93 [h-index: 21, i10 index: 41, Citation: 1475]	Invited Talks/ Plenary lecture/ Chaired Session = 04	Conferences/ Workshops/Invited lectures organized = 02
Patents filed= 32; Patent Granted:07, Book Chapter = 13	➤ International Conferences = 08 ➤ National/ International Collaborations: 42	International/ National Conferences with proceedings = 03
Teaching Experience: 4 years 4 months Research and industrial Experience: 5 years 6 months as Postdoc & 8 years 4 months as Scientist. Total Working Experience = 18 years	Postdoc Supervision: Nil Ph.D. Supervision: 05 (00 completed & 05 ongoing) PG Project Supervision: (Completed 11 Students & ongoing 06)	

### **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 (14<sup>th</sup> 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	2020	Best Researcher International Award	From VD Good
3	2018	Poster Award	Instem Annual Research Review Meeting Feb26-28
4	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).
5	2015	Bridging Postdoctoral Fellowship (Sept 2015 to Sept 2017).	For Postdoctoral Work, InStem, NCBS, TIFR, Bangalore 560065.
6	2013	Poster Award	Biocon Bristol Myers Squibb Research Centre (BBRC), Bangalore.
7	2012	K-SET (Chemistry)	State Eligibility Test 2011, University of Mysore (among top 1 %)
8	2012	Star Award	For ECN Molecule Synthesis. Biocon Bristol Myers Squibb Research Centre (BBRC), Bangalore.
9	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 Chandrashekhara**, 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 Chandrashekhara**, 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 17,853,618 and published on 20-12-2022.
- Ningegowda, Raghu; Savitha H S, Neethu Patil; **Chandrashekhara, 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.
- Vemula PK, Thorat K, **Chandrashekhara S**, Pandey S. "Compositions, materials, and methods for deactivating toxic agents" PCT Int. Appl. (2019), WO 2019180653 A1 20190926.
- Vemula PK, Thorat K, **Chandrashekhara 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. **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. **Patent No: 359559** Date of Grant: 25/02/2021
- Jala, Venkatakrishna Rao; Bodduluri, Haribabu; Singh, Rajbir; Vemula, Praveen Kumar; **Chandrashekhara, Sandeep**; Hiwale, Ankita Arun; Urolithin a and derivatives thereof for use in therapy; PCT Int. Appl. (2019), WO 2019222146 A1 20191121.
- Ningegowda, Raghu; Banuprakash, Govindappa; **Chandrashekhara, 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, WO 2021161084 A1 20210819.
- Vijayakumar Uppar, Basavaraj Padmashali, Govindappa Banuprakash and **Sandeep Chandrashekhara**. 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. **Patent No: 418528** Date of Grant: 18/01/2023
- 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<sub>2</sub> (spla<sub>2</sub>) inhibitor activity; PCT Int. Appl.(2022),WO 2022069953 A1 20220407.
- 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. Indian Pat. Appl. (2020), IN 202041006661 A 20200313 or J. Ind. Pat. Office, Issue 11/2020, 13/03/2020, IN 202041006661 A. **Patent No: 399540** Date of Grant: 20/06/2022
- Sandeep Chandrashekhara**. 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.

13. Basavaraj Padmashali, Vijayakumar Uppar; **Sandeep Chandrashekharappa**, 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. **Patent No: 394853** Date of Grant: 18/04/2022
14. Jala VR, Bodduluri H, Singh R, Vemula PK, **Chandrashekharappa 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.
15. Jala, Venkatakrishna Rao; Bodduluri, Haribabu; Singh, Rajbir; Vemula, Praveen Kumar; **Chandrashekharappa, 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.
16. Vemula, Praveen Kumar; Thorat, Ketan; **Chandrashekharappa, Sandeep**; Pandey, Subhashini; Compositions, materials, and methods for deactivating toxic agents; Indian Pat. Appl. (2021), IN 202142053063 A 20211210.
17. Ranjith Siddaraj, Raghu Ningegowda, Govindappa Banuprakash, **Sandeep Chandrashekharappa**; Synthesis and characterization of (s)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives and their secretory phospholipase a<sub>2</sub> (spla<sub>2</sub>) 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. **Patent No: 457614**, Date of Grant: 09/10/2023.
18. Jala VR, Bodduluri H, Singh R, Vemula PK, **Chandrashekharappa 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); **US patent Pub No: US 2021/0267932 A1 Date: Sep. 2, 2021.**
19. Vemula PK, Thorat K, **Chandrashekharappa S**, Pandey S. "Compositions, materials, and methods for deactivating toxic agents" Sri Lankan Convectional Patent Application Number: 20419 (Filed date: 21-03-2019). **Patent No: 20419** Date of Grant: 17/05/2023.
20. Katharigatta N. Venugopala, **Sandeep Chandrashekharappa**, Pillay Melendhran, Bharti Odhav, Mohanlall Viresh, Kasumbwe kabange. Treatment of Tuberculosis: S. African (2021), ZA 2020003088 A 20210630.
21. Raghu Ningegowda, **Sandeep Chandrashekharappa**, Govindappa Banuprakash; N-(4-fluorophenyl)-5-phenyl-[1,2,4] triazolo [1,5-a] pyridine-2-carboxamide derivatives and their synthesis thereof; WO 2021/161084 A1. International PCT Application no; PCT/IB2020/057045 (File date: 26-07-2020). (PCTIB2020057045).
22. Ranjith Siddaraj, Raghu Ningegowda, Govindappa Banuprakash, **Sandeep Chandrashekharappa**; Synthesis and characterization of (s)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives and their secretory phospholipase a<sub>2</sub> (spla<sub>2</sub>) inhibitor activity; PCT Application no; PCT/IB2021/052556 (File date: 27-03-2021). (PCTIB2021052556).
23. Katharigatta N. Venugopala, Mohamed A. Morsy, Keshab M. Bairagi, Susanta K. Nayak, Melendran Pillay, Pran Kishore Deb, Sandeep Chandrashekharappa, 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.
24. **Katharigatta N. Venugopala**, Mohamed A. Morsy, Keshab M. Bairagi, Susanta K. Nayak, Melendran Pillay, Pran Kishore Deb, Sandeep Chandrashekharappa, 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.
25. **Katharigatta N. Venugopala**, Pran Kishore Deb, Melendran Pillay, Vijaykumar Uppar, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Sandeep Chandrashekharappa, Basavaraj Padmashali. Substituted 7-methyl quinoline derivatives as anti-tubercular agents. **UNITED STATES Patent Application No. 18240256**, August 30, 2023; Docket No. 33125.66.
26. Katharigatta N. Venugopala, Pran Kishore Deb, Melendran Pillay, Sandeep Chandrashekharappa, 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.
27. Katharigatta N. Venugopala, Pran Kishore Deb, Melendran Pillay, Sandeep Chandrashekharappa, 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.

28. **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.
29. **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.
30. Katharigatta N. Venugopala, Pran Kishore Deb, Melendran Pillay, Sandeep Chandrashekhara, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Christophe Tratrat, 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.
31. **Katharigatta N. Venugopala**, Bandar E. Aldhubiab, Mohamed A. Morsy, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Christophe Tratrat, Sandeep Chandrashekhara, Melendran Pillay, Pran Kishore Deb, Sheena Shashikanth. 7-Isopropyl 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.

#### **Research Publications; (Ongoing):**

1. R Singh, **S Chandrashekhara**, S, R. Bodduluri, B, V. Baby, B, Hegde, N, G. Kotla, A, A. Hiwale, Matam Vijay-Kumar, Morgan G. I. Langille, Gavin M. Douglas, Gerald W. Dryden, Houda Alatassi, Huang-Ge Zhang, Bodduluri, Haribabu, Praveen K. Vemula, Venkatakrishna R. Jala. Enhancement of the Gut Barrier Integrity by a microbial metabolite through the Nrf2 pathway. *Nature Communications*, **2019**, 10, 1-18. **IF-17.69**
2. Kyatagani Lakshmikanth<sup>#</sup>, Surbhi Mahender Saini<sup>#</sup>, Sandya Tambi Dorai, **Sandeep Chandrashekhara**<sup>\*</sup>; Tandem-Michael-Cyclization Cascade to Make Pyridines: Use of Electron-Deficient Acetylenes for The Synthesis of Indolizines in Aqueous Media; *Tetrahedron*, **2023**, 142, 133516.
3. Priyanka Mundhe<sup>#</sup>, Neeru Bhanwala<sup>#</sup>, Surbhi Mahender Saini, Gopavaram Sumanth, Kondreddy Shivaprasad, Sondarya Uttam Shende, Krishna Reddy, **Sandeep Chandrashekhara**<sup>\*</sup>. Domino Synthesis of Novel 3-Alkenyl Benzofuran Derivatives- Base Mediated Condensation Cascade Reaction. *Tetrahedron*, **2023**, 132, 133265.
4. **C. Sandeep**, Basavaraj Padmashali<sup>\*</sup> and Rashmi S. Kulkarni. Efficient synthesis of indolizines and new imidazole [1,2-a]pyridines via the expected cyclization of aromatic cycloimmonium ylides with electron-deficient alkynes and ethyl cyanofornate. *Tetrahedron Letters* Vol 54 Issue 48 **2013** 6411.
5. Ketan Thorat, Subhashini Pandey, **Sandeep Chandrashekhara**, Nikitha Vavilthota, Ankita A. Hiwale, Purna Shah, Sneha Sreekumar, Shubhangi Upadhyay, Tenzin Phuntsok, Kiran Kumar Mudnakudu-Nagaraju, Manohar Mahato, Omprakash Sunnapu, and Praveen Kumar Vemula. Prevention of pesticide-induced toxicity and mortality with nucleophilic poly-Oxime topical gel. *Science Advances* Vol-04, No-10, **2018**, eaau1780. DOI: 10.1126/sciadv.aau1780. **IF-14.9**.
6. Sandya Tambi Dorai<sup>#</sup>, Kyatagani Lakshmikanth<sup>#</sup>, Priya Tiwari, Surbhi Mahender Saini, **Sandeep Chandrashekhara**<sup>\*</sup>; One-Pot Construction of Novel Trifluoromethyl dihydro-imidazo[1, 2-a]pyridine: A Greener Approach; *Tetrahedron*, **2023**, xxx, 133691.
7. Souparnika H. Manjunath, Prabhakaran Nataraj, Vikas H. Swamy, Kavya Sugur, Sumit K. Dey, Veena Ranganathan, Shyni Daniel, Zonunsami Leihang, Veronica Sharon, **Sandeep Chandrashekhara**, Nithin Sajeev, Venkataramana G Venkatarreddy, Anil Chuturgoon, Gowthamarajan Kuppusamy, SubbaRao V Madhunapantula, Rajesh K. Thimmulappa; Development of Moringa oleifera as functional food targeting NRF2 signaling: Antioxidant and anti-inflammatory activity in experimental model systems; *Food & Function*, **2023**, 14, 4734-4751.

8. Priyanka Mundhe, Saqib Kidwai, Surbhi Mahender Saini, Harshada Rambaboo Singh, Ramandeep Singh\* and **Sandeep Chandrashekhara**\*; Design, Synthesis, Characterization, and Anti-tubercular activity of Novel Ethyl-3-benzoyl-6, 8-difluoroindolizine-1-carboxylate Analogues: Molecular Target Identification and Molecular Docking Studies; *Journal of Molecular Structure*, **2023**, 1284, 135359.
9. Kondreddy Shivaprasad, Saqib Kidwai, Sumanth Gopavaram, Surbhi Mahender Saini, Krishna Reddy, Saurabh Chugh, Ramandeep Singh\* and **Sandeep Chandrashekhara**\*; Design, Synthesis, and In-vitro Antitubercular Evaluation of Novel 7-methoxy Pyrrolo[1,2-*a*]quinoline Analogues as CYP 121 Inhibitors; *Journal of Molecular Structure*, **2023**, 1284, 135439.
10. Gopavaram Sumanth<sup>#</sup>, Surbhi Mahender Saini<sup>#</sup>, Kyatagani Lakshmikanth, Gayakvad Sunitaben Mangubhai, Kondreddy Shivaprasad, **Sandeep Chandrashekhara**\*; Microwave-Assisted Improved Regioselective Synthesis of 3-benzoyl Indolizine Derivatives; *Journal of Molecular Structure*, **2023**, 1286, 135561.
11. Gopavaram Sumanth, Kyatagani Lakshmikanth, Surbhi Mahender Saini, Priyanka Mundhe, Kondreddy Shivaprasad, **Sandeep Chandrashekhara**\*: Phenyl pyrrolo[1,2-*a*] quinolines- finding of a key by-product during quinolinium salt preparation; *Journal of Molecular Structure*, 1273, **2023**, 134350.
12. Ranjith Siddaraj, Raghu Ningegowda, Shivananju Nanjunda Swamy, **Sandeep Chandrashekhara**\*, Babu S Priya\*: A New Strategy in the Synthesis of Amide-bearing Pyrrolizine from 2-Pyroglutamic acid; *ChemistrySelect*, **2023**, 08(11), e202204496.
13. Lina A. Dahabiyeh, Farah Hudaib; Wafa Hourani; Wesam Darwish; Bashaer Abu-Irmaileh; Pran Kishore Deb; Katharigatta N. Venugopala; Viresh Mohanlall; **Sandeep Chandrashekhara**; Rana Abu-Dahab; Mohammad H. Semreen; Yasser Bustanji: Mass Spectrometry-based Metabolomics Approach and in vitro Assays Revealed Promising Role of 2,3-Dihydroquinazolin-4(1H)-one Derivatives Against Colorectal Cancer Cell Lines: *European Journal of Pharmaceutical Sciences*: Vol 182, **2023**, 106378.
14. **Sandeep C**, Katharigatta N. Venugopala, Mohammed A. Khedr , Basavaraj Padmashali, Rashmi S. Kulkarni, Rashmi Venugopala, Bharti Odhav. Greener Synthesis of Indolizine analogues Using Water as a Base and Solvent: study for larvicidal agents against *Anopheles arabiensis*. *Chemical Biology and Drug Design* **2016**; 88: 899–904.
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76. S.M. Mallikarjuna, Basavaraj Padmashali\*, **C. Sandeep**. Synthesis, anticancer and antituberculosis studies for [1-(4-chlorophenyl) cyclopropyl] (piperazin-1-yl) methanone derivatives. *International Journal of Pharmacy and Pharmaceutical Sciences* **2014**, 6 (7); 423-427.
77. S.M. Mallikarjuna, **C. Sandeep**, Basavaraj Padmashali\*. Acid amine coupling of (1h-indole-6-yl) piperazin-1-yl) methanone with substituted acids using HATU coupling reagent and their antimicrobial and antioxidant activity., *IJPSR*, 2017; Vol. 8(7): 2879-2885.

78. S.K. Rashmi, T.H. Suresha Kumara,\* Gopalpur Nagendrappa, H.B.V. Sowmya, P.S. Sujana Ganapathy, **C. Sandeep**, Sunil S. More, Synthesis, antimicrobial, antioxidant and docking studies of (3-methoxy-5-nitrobenzofuran-2-yl)(phenyl)methanone derivatives. *International Journal of Pharmacy and Pharmaceutical Sciences* **2015**, 7 (2); 493-497.
79. H. K. Nagesh. B. Padmashali, **C. Sandeep**. T.C.M. Yuvaraj. M.B. Siddesh, S M Mallikarjuna, Synthesis and antimicrobial activity of benzothiophene substituted coumarins, pyrimidines and pyrazole as new scaffold. *Int. J. Pharm. Sci. Rev. Res.*, 28(2), 2014; Article No. 02, Pages: 6-10.
80. H.K. Nagesh, B. Padmashali, **C. Sandeep**, M. B. Siddesh, and K.S. Thriveni, Design, synthesis and pharmacological studies of imidazole, oxadiazole, and pyrazolone containing benzothiophene derivatives. *Universal Journal of Pharmacy*, **2013**, 02(05), 78-83.
81. H.K. Nagesh, B. Padmashali, **C. Sandeep**, An Insight into the Pharmacological Potency of Novel Benzothiophene Derivatives. *Journal of Applicable Chemistry*, **2013**, 2 (5):1147-1154.
82. H. K. Nagesh. B. Padmashali, **C. Sandeep**, T.E Musturappa, M.R Lokesh. Synthesis and characterization of novel Benzothiophene substituted oxadiazole derivatives and their antimicrobial activity. *Der Pharma Chemica*, **2015**, 7(12):129-136.

#### Abstract Publications

83. Venkatakrishna R Jala, Rajbir Singh, **Sandeep Chandrashekarappa**, Swathi Joshi Barve, Craig McClain, Bodduluri Bodduluri and Praveen Kumar Vemula; Gut microbial metabolites as therapeutics to treat of alcoholic liver disease; *J Immunol* May 2020, 204 (1 Supplement) 83.17.
84. Venkatakrishna R Jala, Rajbir Singh, **Sandeep Chandrashekarappa**, Sobha Rani Bodduluri, Baby V Becca, Bindu Hegde, Niranjan Kotla, Ankita A Hiwale, Taslimarif Saiyed, Paresh Patel, Matam Vijay-Kumar, Morgan Langille, Gavin M Douglas, Gerald Dryden, Xi Cheng, Eric Rouchka, Sabine J Waigel, Houda Alatassi, Huang-Ge Zhang, Bodduluri Haribabu and Praveen K Vemula. Enhancement of gut barrier function by microbial metabolite, urolithin A via AhR-Nrf2 dependent pathways in IBD. *J Immunol* May 1, 2019, 202 (1 Supplement) 192.4.
85. **SANDEEP, C.**; **PADMASHALI, B.**; **KULKARNI, R. S.** Efficient Synthesis of Indolizines and New Imidazo[1,2-a]pyridines via the Expected Cyclization of Aromatic Cycloimmonium Ylides with Electron Deficient Alkynes and Ethyl Cyanofornate. *ChemInform*, 201414175. DOI: 10.1002/chin.201414175.
86. 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.
87. Boy, Kenneth M.; Guernon, Jason M.; Zhang, Yunhui; Zuev, Dmitry; Mandal, Sunil K.; **Chandrashekarappa, 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.
88. Subhashini Pandey, **Sandeep Chandrashekarappa**, 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	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 <b>Sandeep</b>

				<b>Chandrashekarappa*</b>
2	<a href="#">Advanced Drug Delivery Strategies for Targeting Chronic Inflammatory Lung Diseases</a> Clinical Trials on Novel Advanced Drugs for Chronic Respiratory Disorders	pp 623-655	<b>Print ISBN</b> 978-981-16-4391-0 <b>Online ISBN</b> 978-981-16-4392-7 <a href="https://doi.org/10.1007/978-981-16-4392-7_27">https://doi.org/10.1007/978-981-16-4392-7_27</a> <b>Publisher Name;</b> Springer Nature	Kiran Kumar Mudnakudu-Nagaraju, Mrudula M.Mohan, <b>Sandeep Chandrashekarappa</b> , Raghu Ningegowda
3	<b>Functionalized Nanomaterial-Based Electrochemical Sensors</b> Advantages and limitations of chapter:09: functionalized nanomaterials based electrochemical sensors environmental monitoring	165-174	<a href="http://elsev.spi-global.com/books">elsev.spi-global.com/books</a> <b>ISBN: 978-0-12-823788-5</b> <a href="https://doi.org/10.1016/B978-0-12-823788-5.00016-8">https://doi.org/10.1016/B978-0-12-823788-5.00016-8</a> ( <a href="https://elsev.spi-global.com/books/EComp/WPEO_HUSSAIN-MANJUNATHA978-0-12-823788-5/1/OTc4LTAmtIt/index.php?Type=E">https://elsev.spi-global.com/books/EComp/WPEO_HUSSAIN-MANJUNATHA978-0-12-823788-5/1/OTc4LTAmtIt/index.php?Type=E</a> )	Balaji Maddiboyina, OmPrakash Sunaapu, <b>Sandeep Chandrashekarappa*</b> , and Gandhi Sivaraman
4	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	Gnanesh Rao, AkhileshRao, B, P Nandeshwarappa, Raghu Ningegowda, Kirankumar MN, and <b>Sandeep Chandrashekarappa*</b>
5	<b>Voltammetry for Sensing Applications</b> Optimised Voltammetric Approaches for Clinical Sample Analysis	158-176	ISBN: 978-981-5039-71-9 (Online) ISBN: 978-981-5039-72-6 () (Bentham Science)	Gnanesh Rao, Raghu Ningegowda, Siddesh, M.B, Kirankumar MN, and B, P Nandeshwarappa and <b>Sandeep Chandrashekarappa*</b>
6	The Chemistry of Prostaglandins Year <b>2015</b>	1-70	Abhijith Publications, ambika bhawan, 21, Ansari Rd, Daryaganj, New Delhi, Delhi 110006. ISBN; <b>9789350742433</b>	Basavaraj Padmashali and <b>Sandeep C</b>
7	Organic Reactions Year <b>2015</b>	1-160	Abhijith Publications, ambika bhawan, 21, Ansari Rd, Daryaganj, New Delhi, Delhi 110006. ISBN; <b>9789350742440</b>	<b>Sandeep C</b> and Basavaraj Padmashali
8	Organic structure elucidation using NMR spectra Year <b>2015</b>	1-80	Abhijith Publications, ambika bhawan, 21, Ansari Rd, Daryaganj, New Delhi, Delhi 110006. ISBN; <b>9789359732457</b>	Gururaja GN and <b>Sandeep C</b>
9	Biomolecule: The current Status and future perspectives: Synthesis and Pharmaceutical Applications of Oxadiazole. Page No:99-114	<b>99-114</b>	Today and Tomorrow's Printers and Publishers, New Delhi-110002 ISBN 10: 81-7019-702-2 and ISBN 10: 9788170197027	Raghu Ningegowda, <b>Sandeep C</b> , Kirankumar MN, and B, P Nandeshwarappa
10	Essential of Biomolecules, Indolizine analogues as anti-inflammatory drugs	<b>67-84</b>	NARENDRA PUBLISHING HOUSE <i>Publisher and Distributor</i> , C-21, Varun Apartments, Sector-9, Rohini, Delhi- 110085 (INDIA) <b>ISBN : 978-93-90611-96-6</b>	<b>Sandeep Chandrashekarappa</b> , Kiran K. Mudnakudu-Nagaraju, Raghu

				Ningegowda, B. P. Nandeshwarappa
11	Synthesis and Biological Applications of Imidazole Derivatives.	<b>75-86</b>	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 Ningegowda*, <b>Sandeep Chandrashekarappa</b> , and Nandeshwarappa B. P
12	Organic Molecules: Efficacy, Remedies and Therapeutics, Synthesis of 3-acetyl-2H-selenopyrano[2,3-b]quinolin-2-one A Potent Antibacterial Agent	<b>1-21</b>	JAYA PUBLISHING HOUSE Publisher and Distributor H-1/60, Sector – 16, Rohini, Delhi-110089 (INDIA) ISBN: 978-93-90611-97-3	B. P. Nandeshwarappa, <b>Sandeep Chandrashekarappa</b> , S. O. Sadashiv and Sharangouda J. Patil and Manjunath S. Katagi
13	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, <b>Sandeep Chandrashekarappa</b> , S. O. Sadashiv

#### Project Completed

Sl No	Project Title	Period	Amount Sanctioned	Agency
1	Prophylactic catalytic dermal cream to prevent pesticide exposure during farming practices" SP/YO/078/2017	Sept-2017 to Sept 2020	31,49,100.00	DST-SYST

#### Invited Talks

Sl no	Year	Conference/Seminars/ Workshops/Symposia/ Trainings attended	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			
4			

#### 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/

				<b>Chaired Sessions</b>
1	2004	<b>Sandeep C</b>	National Conference	Recent Advances in Electrochemical and surfaces science for industry an society,
2	2013	<b>Sandeep C</b> , 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, <b>Sandeep C</b> , ...et.al, Sowmya H. B. V.	National Conference	Synthesis of novel quinoline derivatives.
4	2014	<b>Sandeep C</b> , Basavaraj Padmashali.	National Conference (DST Sponsored) 21-04-2014 in Sahyadri college shimoga.	Efficient synthesis of indolizines and new imidazo[1,2-a]pyridines via the expected cyclization of aromatic cycloimmonium ylides with electron deficient alkynes and ethyl cyanoformate
5	2014	<b>Sandeep C</b> , 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	<b>Sandeep C</b>	National conference	Chem Thrust one day symposium.
7	2014	<b>Sandeep C</b>	National Conference (UGC-CPE Sponsored)	Emerging Trends in chemical and pharmaceutical sciences.
8	2014	<b>Sandeep C</b>	National Conference (UGC Sponsored)	Recent Trends in medicinal Chemistry
9	2014	<b>Sandeep C</b>	Faculty development program. 18 & 19-07-2014.	Two days Faculty development program on Pedagogy and innovations.
10	2014	Boy, Kenneth M.; Dmitry; Mandal, Sunil K.; <b>Chandrashekarappa, Sandeep</b> et.al.,... Thompson, Lorin A.	248th ACS National Meeting & Exposition, San Francisco, USA, (August 10-14, 2014) Published in ACS Washington DC.	Bicyclic pyrimidine modulators of A-beta production for the treatment of Alzheimer's disease
11	2015	<b>Sandeep C</b> , 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	<b>Sandeep C</b>	Faculty development program 3 <sup>rd</sup> Feb 2015	One days Faculty development program on Research Methodology.
13	2016	<b>Sandeep C</b>	7 Days 92 <sup>nd</sup> National Workshop	Radiochemistry and applications of radioisotopes. Jointly DAE and BRNS.
14	2017	<b>Sandeep C</b>	ICEPE-2017 International Conference 16-17 Feb	International conference ICEPE-2017 at Jyoti Nivas college autonomous Bangalore
15	2017	Ketan T, Subhashini P, <b>Sandeep C</b> ,...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 Venkatakrishna 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 <sup>th</sup> Oct 2017.	National Symposium on University-Industry Interaction to promote Technology Transfer & Entrepreneurship.
18	2018	Subhashini Pandey <sup>#</sup> , Sandeep Chandrashekhara <sup>#</sup> , Tanu Jain, Ketan Thorat, Harini Raghavan and Praveen K. Vemula* <sup>#</sup> 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 <sup>rd</sup> and 4 <sup>th</sup> 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 <sup>th</sup> Oct 2018, KLE- College, Bangalore.	Synthesis of New Indolizine Derivatives from Eco-friendly method.
22	2018	Vijayakumar Uppar, Sandeep Chandrashekhara and Basavaraj Padmashali*	UGC-CPE Sponsored National Conference, Emerging Trends in Material Science, 5 <sup>th</sup> Oct 2018, KLE- College, Bangalore.	Eco-friendly synthesis of Pyrrolo[1,2a] Quinoline Derivatives
23	2019	Vijayakumar Uppar, Sandeep Chandrashekhara, Katharigatta N. Venugopala and Basavaraj Padmashali <sup>a*</sup>	National level Conference on recent advances in material science. 1 <sup>st</sup> 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 Chandrashekhara, Vijayakumar Uppar, Vinod G and Basavaraj Padmashali*	CPE Sponsored National level Conference on recent advances in material science. 5 <sup>th</sup> Feb 2019. Field Marshal College Madikeri.	Synthesis of Novel Derivatives of Indolizine with Eco-friendly method.
25	2019	Vijayakumar Uppar, Sandeep Chandrashekhara, Vinod G and Basavaraj Padmashali	CPE Sponsored National level Conference on recent advances in material science. 5 <sup>th</sup> Feb 2019. Field Marshal College Madikeri.	Novel Synthesis of Indolizine Derivatives.



26	2019	<b>Sandeep Chandrashekarappa<sup>a*</sup></b> , 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 Chandrashekarappa*, 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*, <b>Sandeep Chandrashekarappa</b>	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*, <b>Sandeep Chandrashekarappa</b>	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*, <b>Sandeep Chandrashekarappa</b>	1 <sup>st</sup> 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 <sup>th</sup> -26 <sup>th</sup> 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	<b>Sandeep Chandrashekarappa*</b> , Raghu Ningegowda	International Conference on Innovations and Challenges in Science and Technology (ICICST-2019) 19 <sup>th</sup> -23 <sup>rd</sup> , 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*, <b>Sandeep Chandrashekarappa</b>	International Conference on Innovations and Challenges in Science and Technology (ICICST-2019) 19 <sup>th</sup> -23 <sup>rd</sup> , December-2019 held at Don Bosco Institute of Technology.	Synthesis, antibacterial and antioxidant properties of ethyl 7-amino-3-benzoyl-2-methylindolizine-1- carboxylate derivative”
33	2020	Raghu Ningegowda*, <b>Sandeep Chandrashekarappa</b>	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	<b>Sandeep Chandrashekarappa*</b> , Raghu Ningegowda, Vinod G	National conference on Recent advances in chemical biology and material Engineering at Veerashaiva College Bellary on 30 and 31 <sup>st</sup> Jan 2020.	Synthesis and characterization of Substituted 7-Methyl and 7-Formylindolizines with their Pharmacological Applications.

35	2020	<b>Sandeep Chandrashekhara</b> *, Raghu Ningegowda, Vinod G	National level Conference on Recent Novel Approaches in Chemical Sciences 12 <sup>th</sup> Feb 2020. Field Marshal College Madikeri.	Synthesis and pharmacological properties of Substituted Tetrahydropyrimidinones
36	2020	<b>Sandeep Chandrashekhara</b>	Two Weeks' National Level faculty development program. 03 <sup>rd</sup> 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	<b>Sandeep Chandrashekhara</b>	Science Leadership Workshop India's first leadership program Science Academics	Science leadership workshop organized by central university of Punjab, bathinda, India, from June 22 <sup>nd</sup> to June 28 2020.
38	2020	<b>Sandeep Chandrashekhara</b>	National Webinar Series (NWS)-2020 from 15 <sup>th</sup> -21 <sup>st</sup> June 2020	National Webinar Series (NWS)-2020 on "Immunity and infection: Biochemical approaches to therapies" from 15 <sup>th</sup> -21 <sup>st</sup> June 2020
39	2020	<b>Sandeep Chandrashekhara</b>	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 for IPR Promotion and Management (CIPAM), DPIIT, GOI, New Delhi.	5-Day Web conference on Intellectual Property Rights and Innovations 23 <sup>rd</sup> to 27 <sup>th</sup> June 2020
40	2020	<b>Sandeep Chandrashekhara</b>	One Week Online Faculty Development Program on "Higher Education 2020: Requirements & Expectations" 8 <sup>th</sup> July to 12 <sup>th</sup> July, 2020.	Organized by Internal Quality Assurance Cell, TPCT's College of Engineering, Osmanabad . 8 <sup>th</sup> July to 12 <sup>th</sup> July, 2020.
41	2022	<u>Surbhi Mahender Saini</u> , <b>Dr. Sandeep Chandrashekhara</b>	Conference attended: <a href="#">27<sup>th</sup> ISCB International Conference (ISCBC-2022)</a> Research and Innovation in Chemical, Pharmaceutical and Biological Sciences 16 <sup>th</sup> - 19 <sup>th</sup> 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> , <b>Sandeep Chandrashekhara</b> *	Conference attended: <a href="#">27<sup>th</sup> ISCB International Conference (ISCBC-2022)</a> Research and Innovation in Chemical, Pharmaceutical and Biological Sciences 16 <sup>th</sup> - 19 <sup>th</sup> 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> , <b>Sandeep Chandrashekhara</b> *	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> <sup>1</sup> , <u>Katharigatta N. Venugopala</u> <sup>2</sup> , <b>Sandeep C</b> <sup>3</sup> , <u>Pradeep K. Mondal</u> <sup>4</sup> , <u>Khatendra T. Reang</u> <sup>1</sup> , <u>Keshab M. Bairagi</u> <sup>1</sup> , <u>Maurizio Polentarutti</u> <sup>4</sup>	<a href="#">49<sup>th</sup> National Seminar on Crystallography (49<sup>th</sup> NSC)</a> Org. by The Chemical Crystallography Laboratory, Department of Physics, University of Jammu (November 28-30 <sup>th</sup> 2022)	Synthesis, crystal structure, molecular docking, and anti-tubercular activity study of ethyl 7-methoxy-3-(4-substituted benzoyl)indolizine-1-carboxylate derivatives

		<u>and Susanta K. Nayak<sup>1*</sup></u>		
45	2023	<u>Sunitaben M. Gayakvad,</u> <b>Sandeep Chandrashekharappa*</b>	2nd International Conference on Multidisciplinary Research Towards Sustainable Development organized by Indian Academicians and Researchers Association <b>5<sup>th</sup> Feb 2023.</b>	Efficient Synthesis and Characterization of 3,5-Di-Chloroindolizine Carboxylates via [3+2] Cycloaddition Reaction
46	2023	<u>Raunak Katiyar,</u> <b>Sandeep Chandrashekharappa*</b>	Feb 24-25 2022	(Synthesis and Characterization of Novel 7-chloropyrrolo[1,2- <i>a</i> ] Quinoline-3-Carboxylate Analogues: Molecular Target Identification)
47	2023	<u>Surbhi Mahender Saini<sup>1</sup>,</u> Priyanka Mundhe <sup>1</sup> , Saqib Kidwai <sup>2</sup> , Harshada Rambaboo Singh <sup>1</sup> , Ramandeep Singh <sup>2*</sup> and <b>Sandeep Chandrashekharappa<sup>1*</sup></b>	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
48	2023	<u>Priya Tiwari<sup>1</sup>,</u> Gayakvad Sunitaben Mangubhai <sup>1</sup> , Saqib Kidwai <sup>2</sup> , Ramandeep Singh <sup>2*</sup> , <b>Sandeep Chandrashekharappa<sup>1*</sup></b>	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, <b>Sandeep Chandrashekharappa*</b>	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	<b>Priya Tiwari<sup>1</sup>,</b> Gayakvad Sunitaben Mangubhai <sup>1</sup> , Saqib Kidwai <sup>2</sup> , Ramandeep Singh <sup>2*</sup> , <b>Sandeep Chandrashekharappa<sup>1*</sup></b>	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 Sagar<sup>1</sup>,</u> Sandya Tambi Dorai <sup>1</sup> , Kyatagani Lakshmikanth <sup>1</sup> , Priya Tiwari <sup>1</sup> , Dr. Ramandeep Singh <sup>2*</sup> , <b>Dr. Sandeep Chandrashekharappa<sup>1*</sup></b> .	Three days 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	<u>Surbhi Mahender Saini,</u> <b>Sandeep Chandrashekharappa*</b>	Three days 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, <b>Sandeep Chandrashekhara*</b> and Nidhi Shrivastava	Three days 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.
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### Current National /International Collaborations

1. Dr. Ramandeep Singh (THSTI-Faridabad)
2. Dr. Vinayak Singh (Drug Discovery and Development Centre (H3D), University of Cape Town, South Africa)
3. Dr. Praveen Kumar Vemula (InStem, Bangalore)
4. Dr. Venugopala K N (King Faisal University, Saudi Arabia)
5. Dr. Rajesh Thimmulappa, JSS AHER, Mysore.
6. Dr. J. R. Kumar, JSS AHER, Mysore.
7. Dr. Gururaja G N, (Central University of Gujarat).
8. Dr. Ravinder Kaundal (NIPER-R)
9. Dr. Nidhi Srivastava (NIPER-R)
10. Dr. Nihar Ranjan (NIPER-R)
11. Dr. Rakeshkumar Singh (NIPER-R)

References	
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<p><b>Dr. Gururaja G. N.</b> Assistant Professor School of Chemical Sciences, Central University of Gujarat. Sector-30, Gandhinagar-382 030, Gujarat, India <b>Phone:</b> +91-7349416880 <b>e-Mail:</b> <a href="mailto:gururaja.n@cug.ac.in">gururaja.n@cug.ac.in</a> &amp; <a href="mailto:gururajagn@gmail.com">gururajagn@gmail.com</a></p>	<p><b>Dr. Susanta K. Nayak</b> Associate Professor Department of Chemistry Visvesvaraya National Institute of Technology (VNIT), Nagpur, South Ambazari Road Maharashtra-440010, India Ph:+917122801610; Mobile:+91-8806021888 <b>E-mail:</b> <a href="mailto:sknayak@chm.vnit.ac.in">sknayak@chm.vnit.ac.in</a> ; and <a href="mailto:nksusa@gmail.com">nksusa@gmail.com</a></p>
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**Declaration:**

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

Date: 10-10-2023

Place: Lucknow

**Sandeep Chandrashekharappa**