

CURRICULUM VITAE

Dr. Sandeep Chandrashekarappa

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Assistant Professor, Department of Medicinal Chemistry,
National Institute of Pharmaceutical Education and Research, Raebareli, (NIPER-R)
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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](#) 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, 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, 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 = ~87 [h-index: 20, i10 index 41, Citation: 1415]	Invited Talks/ Plenary lecture/ Chaired Session = 04	Conferences/ Workshops/Invited lectures organized = 02
Patents filed= 22; Patent Granted:06, 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: 03 (00 completed & 03 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 (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	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 a₂ (spla₂) 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 Chandrashekhara**, 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, **Chandrashekhara 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; **Chandrashekhara, 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; **Chandrashekhara, 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 Chandrashekhara**; 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.
18. Jala VR, Bodduluri H, Singh R, Vemula PK, **Chandrashekhara 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, **Chandrashekhara S**, Pandey S. "Compositions, materials, and methods for deactivating toxic agents" Sri Lankan Convectional Patent Application Number: 20419 (Filed date: 21-03-2019)
20. Katharigatta N. Venugopala, **Sandeep Chandrashekhara**, Pillay Melendhran, Bharti Odhav, Mohanlall Viresh, Kasumbwe kabange. Treatment of Tuberculosis: S. African (2021), ZA 2020003088 A 20210630.
21. 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; 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 Chandrashekhara**; 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 Application no; PCT/IB2021/052556 (File date: 27-03-2021). (PCTIB2021052556).

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[#], Surbhi Mahender Saini[#], Sandya Tambi Dorai, **Sandeep Chandrashekhara**^{*}; 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[#], Neeru Bhanwala[#], Surbhi Mahender Saini, Gopavaram Sumanth, Kondreddy Shivaprasad, Sondarya Uttam Shende, Krishna Reddy, **Sandeep Chandrashekhara**^{*}. Domino Synthesis of Novel 3-Alkenyl Benzofuran Derivatives- Base Mediated Condensation Cascade Reaction. *Tetrahedron*, **2023**, 132, 133265.
4. **C. Sandeep**, Basavaraj Padmashali ^{*} 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 cyanofomate. *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. Souparnika H. Manjunath, Prabhakaran Nataraj, Vikas H. Swamy, Kavya Sugur, Sumit K. Dey, Veena Ranganathan, Shyni Daniel, Zonunsiami Leihang, Veronica Sharon, **Sandeep Chandrashekhara**, Nithin Sajeev, Venkataramana G Venkatareddy, 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.
 7. 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.
 8. 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.
 9. Gopavaram Sumanth[#], Surbhi Mahender Saini[#], 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.
 10. 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.
 11. Ranjith Siddaraj, Raghu Ningegowda, Shivananju Nanjunda Swamy, **Sandeep Chandrashekhara***, Babu S Priya*: A New Strategy in the Synthesis of Amide-bearing Pyrrolizine from 2-Pyrroglutamic acid: *ChemistrySelect*, **2023**, 08(11), e202204496.
 12. 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.
 13. **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.
 14. **Sandeep Chandrashekhara**, Katharigatta N. Venugopala,* Christophe Tratat, Fawzi M. Mahomoodally, Michelyne Haroun, Bandar E Aldhubiab, Rashmi Venugopala, Mahendra K. Mohan, Rashmi S. Kulkarni, Mahesh V. Attimarad, Harsha Nagaraj, Bharti Odhav, Efficient synthesis and characterization of novel indolizines: exploration of *in vitro* COX-2 inhibitory activity and molecular modelling studies. *RSC-New Journal of Chemistry*. **2018**, 42, 4893—4901. <http://dx.doi.org/10.1039/C7NJ05010K>.
 15. Katharigatta Venugopala*, Omar Al-Attraqchi, Christophe Tratat, Susanta Nayak, Mohamed Morsy, Bandar Aldhubiab, Mahesh Attimarad, Anroop Nair, Nagaraja Sreeharsha, Rashmi Venugopala, Michelyne Haroun, Meravanige Girish, **Sandeep Chandrashekhara***, Osama Alwassil, Bharti Odhav. Novel series of methyl 3-(substituted benzoyl)-7-substituted-2-phenylindolizine-1-carboxylates as promising anti-inflammatory agents: Molecular modeling studies, *Biomolecules* **2019**, 9(11), 661; <https://doi.org/10.3390/biom9110661>.
 16. Katharigatta N Venugopala , Christophe Tratat, Melendhran Pillay, Fawzi Mahomoodally, Subhrajyoti Bhandary, Deepak Chopra, Mohamed Morsy, Michelyne Haroun, Bandar Aldhubiab, Mahesh Attimarad, Anroop Nair, Nagaraja Sreeharsha, Rashmi Venugopala, **Sandeep Chandrashekhara**, Osama Alwassil, Bharti Odhav; Anti-tubercular Activity of Substituted 7-methyl and 7-formylindolizines & in Silico Study for Prospective Molecular Target Identification; *Antibiotics* 2019, 8 (4), 247.; [doi:10.3390/antibiotics8040247](https://doi.org/10.3390/antibiotics8040247).

17. Katharigatta Venugopala*, Christophe Tratrat, Melendhran Pillay, **Chandrashekhara Sandeep***, Omar Husham Al-Attraqchi, Bandar E. Al-Dhubiab, Mahesh Attimarad, Osama Alwassil, Anroop B Nair, Nagaraja SreeHarsha, Rashmi Venugopala, Mohamed A. Morsy, Michelyne Haroun, Bharti Odhav and Koleka Mlisana: In Silico Design and Synthesis of Tetrahydropyrimidinones and Tetrahydropyrimidinethiones as Potential Thymidylate Kinase Inhibitors Exerting Anti-TB Activity against Mycobacterium Tuberculosis: *Drug Design, Development and Therapy*, **2020**:14 1027–1039.
18. Rajbir Singh, **Sandeep Chandrashekhara**, Praveen Kumar Vemula, Haribabu Bodduluri, Venkatakrishna Rao Jala. Microbial Metabolite, Urolithin B inhibits Recombinant Human Monoamine Oxidase Enzyme. *Metabolites* **2020**, 10, 258.
19. Microwave induced synthesis, and pharmacological properties of novel 1-benzoyl-4-bromopyrrolo[1,2-a]quinoline-3-carboxylate analogues Vijayakumar Uppar, Kiran K Mudnakudu-Nagaraju Atiyaparveen I. Basarikatti, Mallikarjun Chougala, **Sandeep Chandrashekhara***, Mahendra K Mohan, Govindappa Banuprakash^c, Katharigatta N. Venugopala, Raghu Ningegowda, Basavaraj Padmashali*. *Chemical Data Collections* 25 (2020) 100316.
20. **Sandeep Chandrashekhara**, Katharigatta N. Venugopala, Susanta Kumar Nayak, Raquel M. Gleiser, Daniel A. García, Rashmi Venugopala, Kabange Kasumbwe, Rashmi S. Kulkarni, Mahendra K. Mohan, Bharti Odhav. One-Pot Microwave Assisted Synthesis and structural elucidation of Novel Ethyl 3-substituted-7-methylindolizine-1-carboxylates for Larvicidal Activity against *Anopheles arabiensis*. *Journal of Molecular Structure*, 1156 **2018** 377-384. <https://doi.org/10.1016/j.molstruc.2017.11.131>.
21. Katharigatta N. Venugopala*,**Sandeep Chandrashekhara***, Christophe Tratrat, Pran Kishore Deb, Rahul D. Nagdeve, Susanta K. Nayak, Mohamed A. Morsy, Pobitra Borah, Fawzi M. Mahomoodally, Raghu Prasad Mailavaram, Mahesh Attimarad, Bandar E. Aldhubiab, Nagaraja Sreeharsha, Anroop B. Nair, Osama I. Alwassil, Michelyne Haroun, Viresh Mohanlall, Pottathil Shinu, Rashmi F. Venugopala, Mahmoud Kandeel, Belakatte B. Nandeshwarappa, Yasmine F. Ibrahim: Crystallography, Molecular Modelling and COX-2 Inhibition Studies on Indolizine Derivatives: *Molecules*, 2021, 26 (12), 3550.
22. **Vijayakumar Uppar**[#], **Sandeep Chandrashekhara**[#], Chandan Shivamallu, Sushma P, Shiva Prasad Kollur, Joaquín Ortega-Castro, Juan Frau, Norma Flores-Holguín, Atiyaparveen I Basarikatti, Mallikarjun Chougala, Mrudula Mohan M, Govindappa Banuprakash, Jayadev, Katharigatta N. Venugopala, B. P. Nandeshwarappa, Asad Syed, Najat Marraiki, Kiran K Mudnakudu-Nagaraju, Basavaraj Padmashali, Daniel Glossman-Mitnik : Investigation of Antifungal Properties of Synthetic Dimethyl-4-Bromo-1-(Substituted Benzoyl) Pyrrolo[1,2-a] Quinoline-2,3-Dicarboxylates Analogues: Molecular Docking Studies and Conceptual DFT-based Chemical Reactivity Descriptors and Pharmacokinetics Evaluation; *Molecules*, 2021, 26 (9), 2722.
23. Katharigatta N. Venugopala, **Sandeep Chandrashekhara**, Pran Kishore Deb, Christophe Tratrat, Melendhran Pillay, Deepak Chopra, Nizar A. Al-Shar'i, Wafa Hourani, Lina A. Dahabiyeh, Pobitra Borah, Rahul D. Nagdeve, Susanta K. Nayak, Basavaraj Padmashali, Mohamed A. Morsy, Bandar E. Aldhubiab, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Michelyne Haroun, Sheena Shashikanth, Viresh Mohanlall, Raghuprasad Mailavaram: Anti-Tubercular Activity and Molecular Docking Studies of Indolizine Derivatives: *Journal of enzyme inhibition and medicinal chemistry*, **2021**, VOL. 36, NO. 1, 1472–1487.
24. Ramasamy Durai, Nizar A. Al-Shar, **Sandeep Chandrashekhara**, Pran Kishore Deb, Raquel M. Gleiser, Christophe Tratrat, Madhusudana Reddy Muthukurpalya Bhojgowd, Dhakshanamurthy Thirumalai, Katharigatta N. Venugopala; Synthesis, biological evaluation and computational investigation of ethyl 2,4,6-trisubstituted-1,4-dihydropyrimidine-5-carboxylates as potential larvicidal agents against *Anopheles arabiensis*; *Journal of biomolecular structure and Dynamics*, 2023, Vol xx, Issue x, xxxx. (Accepted).
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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 Ninge Gowda, B. P. Nandeshwarappa, and Sandeep Chandrashekarappa*
2	Advanced Drug Delivery Strategies for Targeting Chronic Inflammatory Lung Diseases 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 Chandrashekarappa , Raghu Ninge Gowda
3	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/OTc4LTAcMTIt/index.php?Type=E)	Balaji Maddiboyina, OmPrakash Sunaapu, Sandeep Chandrashekarappa* , 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 Ninge Gowda, Kirankumar MN, and Sandeep Chandrashekarappa*
5	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)	Gnanesh Rao, Raghu Ninge Gowda, Siddesh, M.B, Kirankumar MN, and B, P Nandeshwarappa and Sandeep Chandrashekarappa*
6	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
7	Organic Reactions Year 2015	1-160	Abhijith Publications, ambika bhawan, 21, Ansari Rd, Daryaganj, New Delhi, Delhi 110006. ISBN; 9789350742440	Sandeep C and Basavaraj Padmashali
8	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
9	Biomolecule: The current Status and future perspectives: Synthesis and	99-114	Today and Tomorrow's Printers and Publishers, New Delhi-110002 ISBN 10: 81-7019-702-2 and ISBN 10:	Raghu Ninge Gowda, Sandeep C , Kirankumar MN, and B, P

	Pharmaceutical Applications of Oxadiazole. Page No:99-114		9788170197027	Nandeshwarappa
10	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 Chandrashekarappa , Kiran K. Mudnakudu-Nagaraju, Raghu Ningegowda, B. P. Nandeshwarappa
11	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 Ningegowda*, Sandeep Chandrashekarappa , 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	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 Chandrashekarappa , 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, Sandeep Chandrashekarappa , 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/ 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-a]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 Subtituted 6-acetyl-3-benzoylindolizine-1-carboxylate and 8-acetyl-3-benzoylindolizine-1-carboxylate from subtituted 3-acetyl pyridinium bromides and their antimicrobial activity
6	2014	Sandeep C	National conference	Chem Thrist 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; Mandal, Sunil K.; Chandrashekhara , Sandeep 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	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 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 th Oct 2017.	National Symposium on University-Industry Interaction to promote Technology Transfer & Entrepreneurship.
18	2018	Subhashini Pandey[#] , Sandeep Chandrashekharappa[#] , 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 Chandrashekharappa 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 Chandrashekharappa , 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 Chandrashekhara , 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 Chandrashekhara, 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 Chandrashekhara *, 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 Chandrashekhara*, 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 Chandrashekhara	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 Chandrashekhara	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] triazol[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 derivative"

33	2020	Raghu Ningegowda*, Sandeep Chandrashekharappa	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 Chandrashekharappa *, Raghu Ningegowda, Vinod G	National conference on Recent advances in chemical biology and material Engineering at Veerashaiva College Bellary on 30 and 31 st Jan 2020.	Synthesis and characterization of Substituted 7-Methyl and 7-Formylindolizines with their Pharmacological Applications.
35	2020	Sandeep Chandrashekharappa *, 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 Chandrashekharappa	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 Chandrashekharappa	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 Chandrashekharappa	National Webinar Series (NWS)-2020 from 15 th -21 st June 2020	National Webinar Series (NWS)-2020 on “Immunity and infection: Biochemical approaches to therapies” from 15 th -21 st June 2020
39	2020	Sandeep Chandrashekharappa	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 rd to 27 th June 2020
40	2020	Sandeep Chandrashekharappa	One Week Online Faculty Development Program on "Higher Education 2020: Requirements & Expectations" 8 th July to 12 th July, 2020.	Organized by Internal Quality Assurance Cell, TPCT's College of Engineering, Osmanabad . 8 th July to 12 th 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 16 th - 19 th 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, Sandeep Chandrashekhara</u> [*]	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. Nagdeve¹, Katharigatta N. Venugopala², Sandeep C³, Pradeep K. Mondal⁴, Khatendra T. Reang¹, Keshab M. Bairagi¹, Maurizio Polentarutti⁴ and Susanta K. Nayak^{1*}</u>	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, Sandeep Chandrashekhara</u> [*]	2nd International Conference on Multidisciplinary Research Towards Sustainable Development organized by Indian Academicians and Researchers Association 5th Feb 2023.	Efficient Synthesis and Characterization of 3,5-Di-Chloroindolizine Carboxylates via [3+2] Cycloaddition Reaction
46	2023	<u>Raunak Katiyar, Sandeep Chandrashekhara</u> [*]	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 Saini¹, Priyanka Mundhe¹, Saqib Kidwai², Harshada Rambaboo Singh¹, Ramandeep Singh^{2*} and Sandeep Chandrashekhara</u> ^{1*}	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 Tiwari¹, Gayakvad Sunitaben Mangubhai¹, Saqib Kidwai², Ramandeep Singh^{2*}, Sandeep Chandrashekhara</u> ^{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, Kyatagani Lakshmikanth, Surbhi Mahender Saini, Sandeep Chandrashekhara</u> [*]	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	<u>Priya Tiwari¹, Gayakvad Sunitaben Mangubhai¹, Saqib Kidwai², Ramandeep Singh^{2*}, Sandeep Chandrashekhara</u> ^{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

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	
<p>Dr. Praveen Kumar vemula Associate Professor, Chemistry Core Laboratory of Self-Assembled Biomaterials Institute for Stem Cell Biology and Regenerative Medicine (inStem), National Centre for Biological Sciences (NCBS), TIFR, UAS-GKVK Bellary Road, Bangalore-560065, Karnataka, India Mail: praveen.instem@gmail.com Tel: +91-9686011982</p>	<p>Dr. Basavaraj Padmashali Professor Department of Chemistry, Ranichennamma university Belagavi-591156 Karnataka, INDIA, Email: basavarajpadmashali@yahoo.com Tele: +91- 9844218894</p>
<p>Dr. Gururaja G. N. Assistant Professor School of Chemical Sciences, Central University of Gujarat. Sector-30, Gandhinagar-382 030, Gujarat, India Phone: +91-7349416880 e-Mail: gururaja.n@cug.ac.in & gururajagn@gmail.com</p>	<p>Dr. Susanta K. Nayak Associate Professor Department of Chemistry Visvesvaraya National Institute of Technology (VNIT), Nagpur, South Ambazari Road Maharashtra-440010, India Ph:+917122801610; Mobile:+91-8806021888 E-mail: sknayak@chm.vnit.ac.in ; and nksusa@gmail.com</p>
<p>Dr. B P Nandeshwarappa. Associate Professor Department of Chemistry, Davangere University, Shivagangotri, Davangere-577007, Karnataka India Phone: +91-9980845660 and +91 7892084687 e-Mail: belakatte@gmail.com & belakatte@davangereuniversity.ac.in</p>	<p>Dr. Katharigatta N. Venugopala M.Pharm, PhD Associate Professor, Department of Pharmaceutical Sciences, College of Clinical Pharmacy, King Faisal University, P.O. Box-400, Al-Ahsa-31982 Kingdom of Saudi Arabia. Phone (office): +966 13 589 8842 Phone (Cell): +966 55 778 5046 E- mail : venugopalakn@gmail.com , kvenugopala@kfu.edu.sa</p>

Declaration:

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

Date: 17-08-2023

Place: Lucknow

Sandeep Chandrashekarappa