

CURRICULUM VITAE

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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 a 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 = ~83 [h-index: 18, i10 index 36, Citation: 1121]	Invited Talks/ Plenary lecture/ Chaired Session = 02	Conferences/ Workshops/Invited lectures organized = Nil
Patents = 19; Book Chapter = 11	➤ International Conferences = 06 ➤ National/ International Collaborations: 36	International/ National Conferences with proceedings = 03
Teaching Experience: 3 years 6 months Research and industrial Experience: 5 years 6 months as Postdoc & 8 years 4 months as Scientist. Total Working Experience = 17 years	Postdoc Supervision: Nil Ph.D. Supervision: 03 (00 completed & 03 ongoing) PG Project Supervision: Completed (05 Students & ongoing 12)	

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 Till Date).	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.
- 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, Venkatakrisna 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.
- 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.
- 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
13. 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.
 14. Jala, Venkatakrishna Rao; Bodduluri, Haribabu; Singh, Rajbir; Vemula, Praveen Kumar; **Chandrashekhara S, 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.
 15. Vemula, Praveen Kumar; Thorat, Ketan; **Chandrashekhara S, Sandeep**; Pandey, Subhashini; Compositions, materials, and methods for deactivating toxic agents; Indian Pat. Appl. (2021), IN 202142053063 A 20211210.
 16. Ranjith Siddaraj, Raghu Ningegowda, Govindappa Banuprakash, **Sandeep Chandrashekhara S**; 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.
 17. 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.**
 18. 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)
 19. Katharigatta N. Venugopala, **Sandeep Chandrashekhara S**, Pillay Melendhran, Bharti Odhav, Mohanlall Viresh, Kasumbwe kabange. Treatment of Tuberculosis: S. African (2021), ZA 2020003088 A 20210630.
 20. Raghu Ningegowda, **Sandeep Chandrashekhara S**, 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).
 21. Ranjith Siddaraj, Raghu Ningegowda, Govindappa Banuprakash, **Sandeep Chandrashekhara S**; 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, Haribabu1, 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. Priyanka Mundhe[#], Neeru Bhanwala[#], Surbhi Mahender Saini, Gopavaram Sumanth, Kondreddy Shivaprasad, Sondarya Uttam Shende, Krishna Reddy, **Sandeep Chandrashekhara S**^{*}. Domino Synthesis of Novel 3-Alkenyl Benzofuran Derivatives- Base Mediated Condensation Cascade Reaction. *Tetrahedron*, **2023**, 131, 133265.
3. **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.
4. Ketan Thorat, Subhashini Pandey, **Sandeep Chandrashekhara S**, 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**
5. Gopavaram Sumanth, Kyatagani Lakshmikanth, Surbhi Mahender Saini, Priyanka Mundhe, Kondreddy Shivaprasad, **Sandeep Chandrashekhara S**^{*}: Phenyl pyrrolo[1,2-a] quinolines- finding of a key by-product during quinolinium salt preparation: *Journal of Molecular Structure*, 1273, **2023**, 134350.

6. **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.
7. **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>.
8. 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>.
9. 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).
10. Katharigatta Venugopala*, Christophe Tratat, 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.
11. 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.
12. 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^o, Katharigatta N. Venugopala, Raghu Ningegowda, Basavaraj Padmashali*. *Chemical Data Collections* 25 (2020) 100316.
13. **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>.
14. Katharigatta N. Venugopala*,**Sandeep Chandrashekhara***, Christophe Tratat, 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.
15. **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.

16. Katharigatta N. Venugopala, **Sandeep Chandrashekhara**, Pran Kishore Deb, Christophe Tratat, 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.
17. Raghu Ningegowda*, **Sandeep Chandrashekhara***, Vinayak Singh, Viresh Mohanlall, Katharigatta N. Venugopala; Design, synthesis and characterization of novel 2-(2, 3-dichlorophenyl)-5-aryl-1,3,4-oxadiazole derivatives for their anti-tubercular activity against *Mycobacterium tuberculosis*. *Chemical Data Collections* **2020** 100431.
18. Synthesis, antibacterial and antioxidant studies of 7-amino-3-(4-fluorobenzoyl)indolizine-1-carboxylate derivatives. Vijayakumar Uppar, **Sandeep Chandrashekhara***, Atiyaparveen I Basarikatti, Govindappa Banuprakash, Mahendra K Mohan, Mallikarjun Chougala, Kiran K Mudnakudu-Nagaraju, Raghu Ningegowda and Basavaraj Padmashali*. *Journal of applied pharmaceutical science* Vol. 10(02), pp 077-085, **2020**.
19. **Sandeep Chandrashekhara***, Katharigatta N. Venugopala, Rashmi Venugopala, Basavaraj Padmashali*. Qualitative anti-tubercular activity of synthetic ethyl 7-acetyl-2-substituted-3-(4-substituted benzoyl) indolizine-1-carboxylate analogues. *Journal of applied pharmaceutical science* Vol. 9(02), **2019**, pp 124-128.
20. Katharigatta N. Venugopala¹, **Sandeep Chandrashekhara**¹, Melendhran Pillay, Subhrajyothi Bhandary, Mohammed Morsy, Deepak Chopra, Bandar E Aldhubiab, Mahesh Attimarad, Osama Ibrahim Alwassil, Sree Harsha Nagaraja, Koleka Mlisana. Design, synthesis and structural elucidation of novel benzothiazole analogues for their anti-tubercular activity; *Medicinal Chemistry-Bentham Science*, **2019**, 15, 311-326. (Shareing first author) <https://www.ncbi.nlm.nih.gov/pubmed/29968540>.
21. **Sandeep Chandrashekhara**, Keshab M. Bairagi, Mahendra K. Mohan Katharigatta N. Venugopalac* and Susanta K. Nayakb*. Crystal structure and Hirshfeld surface analysis of diethyl 2-[4-(4-fluorophenyl)- 2-methyl-4 oxobutan-2-yl]malonate. *Acta Cryst.* (2018). E74, 1388–1391.
22. Vijayakumar Uppar[#], **Sandeep Chandrashekhara**[#], Mahendra K Mohan, Atiyaparveen I. Basarikattia, Beena B Rachotimath, Mallikarjun Chougala, Kiran K Mudnakudu-Nagaraju, Govindappa Bhanuprakash, Katharigatta N. Venugopala, Raghu Ningegowda, Basavaraj Padmashali; Synthesis and Characterization of Indolizine and 5,6-benzo-fused Indolizine derivatives with their pharmacological applications; *Chemical Data Collections; Chemical Data Collections* **2020** 100524.
23. **Sandeep Chandrashekhara**, S. O. Sadashiv, Sharangouda J. Patil, B. P. Nandeshwarappa, Design and Synthesis of New Series of 2-Oxo-2H-Selenopyrano[2,3-b]Quinoline-3-Carboxylates and Evaluation of Their Antibacterial Activity: *Pharmaceutical Chemistry Journal*, Vol. 56, No. 5, August, 2022 (Russian Original Vol. 56, No. 5, May, 2022)
24. Katharigatta N. Venugopala, Nizar A. Al-Shar'I, Lina A. Dahabiyeh, Wafa Hourani, Pran Kishore Deb, Melendhran Pillay, Bashaer Abu-Irmaileh, Yasser Bustanji, **Sandeep Chandrashekhara**, Christophe Tratat, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Pottathil Shinu, Michelyne Haroun, Mahmoud Kandeel, Abdulmalek Ahmed Balgoname, Rashmi Venugopala, Mohamed A. Morsy: Antitubercular, Cytotoxicity, and Computational Target Validation of Dihydroquinazolinone Derivatives: *Antibiotics*, 11(7), 831, 2022.
25. Katharigatta N. Venugopala *, Pottathil Shinu, Christophe Tratat, Pran Kishore Deb *, Raquel M. Gleiser, **Sandeep Chandrashekhara**, Deepak Chopra, Mahesh Attimarad, Anroop B. Nair, Nagaraja Sreeharsha, Fawzi M., Mahomoodally, Michelyne Haroun, Mahmoud Kandeel, Syed Mohammed Basheeruddin, Asdaq, Viresh Mohanlall, Nizar A. Al-Shar'I, Mohamed A. Morsy; 1,2,3-Triazolyl-Tetrahydropyrimidine Conjugates as Potential

Sterol Carrier Protein-2 Inhibitors: Larvicidal Activity against Malaria Vector *Anopheles arabiensis* and In Silico Molecular Docking Study; *Molecules*: 27(9), 2676, 2022.

26. B. P. Nandeshwarappa, **Sandeep Chandrashekarappa**, S. O. Sadashiv, Sharangouda J. Patil and H. S. Onkarappa; Nitrogen and Selenium Containing Heterocycles: Part-2: Synthesis and antimicrobial activities of novel S-5-(2-oxo-2H-selenopyrano [2,3-b]quinolin-3-yl)-1,3,4-oxadiazol-2-yl-2-cyanoethanethioates; *Chemical Data Collections* 29, 2021, 100716.
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35. B. P. Nandeshwarappa, **Sandeep Chandrashekarappa** and S. O. Sadashiv Synthesis and antibacterial evaluation of 3-acetyl-2H-selenopyrano[2,3-b]quinolin-2-ones *Chemical Data Collections* 28 **2020** 100484.
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Abstract Publications

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Publication of Books/Chapter:

S. NO	Book title, editor, year	Page Numbers	Publishers International ISSN / ISBN No.	First/ corresponding author
1	<u>Advanced Drug Delivery Strategies for Targeting Chronic Inflammatory Lung Diseases</u> Clinical Trials on Novel Advanced Drugs for Chronic Respiratory Disorders	pp 623-655	Print ISBN 978-981-16-4391-0 Online ISBN 978-981-16-4392-7 https://doi.org/10.1007/978-981-16-4392-7_27 Publisher Name; Springer Nature	Kiran Kumar Mudnakudu-Nagaraju, Mrudula M.Mohan, Sandeep Chandrashekarappa , Raghu Ningegowda
2	Functionalized Nanomaterial-Based Electrochemical Sensors Advantages and limitations of chapter:09: functionalized nanomaterials based electrochemical sensors environmental monitoring	165-174	elsev.spi-global.com/books ISBN: 978-0-12-823788-5 https://doi.org/10.1016/B978-0-12-823788-5.00016-8 (https://elsev.spi-global.com/books/EComp/WPEO_HUSSAIN-MANJUNATHA978-0-12-823788-5/1/OTc4LTAtMTIt/index.php?Type=E)	Balaji Maddiboyina, OmPrakash Sunaapu, Sandeep Chandrashekarappa* , and Gandhi Sivaraman
3	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 Sandeep Chandrashekarappa*
4	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 Ningegowda, Siddesh, M.B, Kirankumar MN, and B, P Nandeshwarappa and Sandeep Chandrashekarappa*
5	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

6	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
7	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
8	Biomolecule: The current Status and future perspectives: Synthesis and Pharmaceutical Applications of Oxadiazole. Page No:99- 114	99-114	Today and Tomorrow's Printers and Publishers, New Delhi-110002 ISBN 10: 81-7019-702-2 and ISBN 10: 9788170197027	Raghu Ningegowda, Sandeep C , Kirankumar MN, and B, P Nandeshwarappa
9	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
10	Synthesis and Biological Applications of Imidazole Derivatives.	75-86	JAYA PUBLISHING HOUSE Publisher and Distributor H-1/60, Sector – 16, Rohini, Delhi- 110089 (INDIA) ISBN: 978-93-90611-97-3	J.P. Shubhaa*, Raghu Ningegowdab*, Sandeep Chandrashekarappa , and Nandeshwarappa B. P
11	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
12	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

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 Substituted 6-acetyl-3-benzoylindolizine-1-carboxylate and 8-acetyl-3-benzoylindolizine-1-carboxylate from substituted 3-acetyl pyridinium bromides and their antimicrobial activity
6	2014	Sandeep C	National conference	Chem 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.; Chandrashekarappa, 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 Chandrashekhara[#] , Tanu Jain, Ketan Thorat, Harini Raghavan and Praveen K. Vemula* [#]Equal contribution	Feb 26-28 2018	Investigating the structure-activity relationship of amphiphilic nucleophiles to hydrolyze major classes of pesticides in micellar medium
20	2018	Vijayakumar Uppar, Sandeep Chandrashekhara[#] and Basavaraj Padmashali*	International Conference on Advancement in Science and Technology (ICAS ^t -2018) 3 rd and 4 th Sept 2018, Shanthiniketan, India	Eco-friendly synthesis of Indolizine Derivatives
21	2018	Sandeep Chandrashekhara[#] , Vijayakumar Uppar and Basavaraj Padmashali*	UGC-CPE Sponsored National Conference, Emerging Trends in Material Science, 5 th Oct 2018, KLE- College, Bangalore.	Synthesis of New Indolizine Derivatives from Eco-friendly method.
22	2018	Vijayakumar Uppar, Sandeep Chandrashekhara[#] 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 Chandrashekhara[#] , Katharigatta N. Venugopala and Basavaraj Padmashali ^{a*}	National level Conference on recent advances in material science. 1 st and 2 nd 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 ^{pa*} , 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 Chandrashekarappa	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 Chandrashekarappa *, 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 Chandrashekarappa *, 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 Chandrashekarappa	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 Chandrashekarappa	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 Chandrashekarappa	National Webinar Series (NWS)-2020 from 15th -21st June 2020	National Webinar Series (NWS)-2020 on “Immunity and infection: Biochemical approaches to therapies” from 15th -21st June 2020
39	2020	Sandeep Chandrashekarappa	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 Chandrashekarappa	One Week Online Faculty Development Program on "Higher Education 2020: Requirements & Expectations" 8th July to 12th July, 2020.	Organized by Internal Quality Assurance Cell, TPCT's College of Engineering, Osmanabad . 8th July to 12th July, 2020.
41	2022	<u>Surbhi Mahender Saini</u> , Sandeep Chandrashekarappa	Conference attended: 27th ISCB International Conference (ISCB-2022) Research and Innovation in Chemical, Pharmaceutical and Biological Sciences 16th - 19th November, 2022 at Birla Institute of Technology, Mesra, Ranchi, India	Domino Synthesis of Novel 3-Alkenyl Benzofuran Derivatives- Base Mediated Condensation Cascade Reaction: A Greener Approach

42	2022	<u>Sondarya Shende, Sandeep Chandrashekharappa*</u>	Conference attended: <u>27th ISCB International Conference (ISCBC-2022)</u> Research and Innovation in Chemical, Pharmaceutical and Biological Sciences 16th - 19th 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	Harshada Rambaboo Singh, Sandeep Chandrashekharappa	NIPER-PHARMACON-2022 International Conference on "Recent Trends and Future Opportunities in Pharmaceuticals" 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.

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. Pratima Tripathi (NIPER-R)

References	
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<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</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: 09-01-2023

Place: Lucknow

Sandeep Chandrashekarappa