

Bangalore Pavan Kumar, M.Pharm, Ph.D

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An enthusiastic, fast learning medicinal chemist, interested in drug discovery and development. Proficient in English language including oral and written comprehension. Team player with collaborations from interdisciplinary fields. Analytical minded, reliable and organized.

SUMMARY

- DST INSPIRE Research fellowship for pursuing doctoral studies by Government of India (2015-2020).
- Obtained research experience in industrial and academic environment in the areas of medicinal chemistry, drug discovery and analytical chemistry.
- Synthesized and evaluated libraries of new chemical entities as antimicrobial and anti-mycobacterial, anticancer, and antiviral agents.
- Published peer reviewed scientific articles in journal of international repute.
- Participated and won many oral presentation competitions during under-graduation and graduation studies.

EDUCATION

DST-INSPIRE Doctoral Program (Ph.D)

2015-present

CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana, India

- Natural product drug discovery: Synthesis, characterization and antimicrobial evaluation of derivatives of usnic acid as bioactive agents. Successfully designed, identified various modifiable targets on the molecule for furthering the drug discovery process, executed the projects, and published a paper in a reputed journal. Involved in minor projects in collaboration with scientists from Applied Biology and Mass spectrometry divisions.
- In depth working knowledge on HPLC, LC-MS and IR spectroscopy instruments.
- Presented posters in Zyduz Cadilla, Ahmedabad and BITS-Hyderabad campus.

Master of Pharmaceutical Chemistry

2011-2013

SPP SPTM, NMIMS University, Mumbai, Maharashtra, India

- Dissertation: Design and synthesis of 1,3,4-oxadiazole compounds based on 4-nitropyrrole scaffold. The NCEs were tested for their anti-infective potency (antimicrobial and anti-tubercular).
- Interdisciplinary project: In vivo evaluation of anti-inflammatory effect of 4,5-Dibromopyrrole based thiazolidinones using rat paw – carrageenan method.
- In addition to the above projects, I also designed, synthesized and successfully completed various other projects based on pyrrole scaffold (bromopyrrole and nitropyrrole), and the results are published in journals of international reputation.

Bachelor of Pharmacy (Pharmaceutical sciences)**2007-2011**Gokaraju Rangaraju College of Pharmacy, Osmania University, Telangana, India.

- Developed great scientific interest in pharmaceutical drug discovery and development, and pharmacology.
- Competence: Organic chemistry, medicinal chemistry, pharmacology, anatomy and pharmaceuticals.

TEACHING EXPERIENCE**Jul 2013-Jan 2014**

Assistant professor, Department of Chemistry, Dr. K.V.Subba Reddy Institute of Pharmacy, Kurnool, Andhra Pradesh, India.

- Subjects taught – Pharmaceutical organic chemistry, Biochemistry, Medicinal chemistry and Pharmacology.
- Planned and conducted lab practical examinations and graded the same.
- Supported the management in organizing inspection by Pharmacy council of India (PCI) and in extra-curricular activities.

SKILLS

- **Medicinal Chemistry:** Drug discovery | Drug design | Medicinal chemistry | Organic synthesis | Purification techniques | NMR spectroscopy | Mass spectrometry | HPLC | FT-IR |
- **Communication:** Strong communication/presentation skills, Eloquent in speaking and writing (wrote scientific articles and replies to technical questions from reviewers).
- **Interpersonal skills:** Effectively collaborated and communicated with colleagues and scientists from interdisciplinary fields outlining hypotheses and objectives while stimulating discussions on the subject.

PUBLICATIONS

- **Pavan K. Bangalore**, Siva K. Vagolu, Rakesh K. Bollikanda, Dileep K. Veeragoni, Pallavi C. Choudante, Sunil Misra, Dharmarajan Sriram, Balasubramanian Sridhar, Srinivas Kantevari, “Usnic acid enaminone-coupled 1,2,3-triazoles as antibacterial and antitubercular agents”, *Journal of Natural Products*, **2020**, 83, 26-35.
- Jyoti Kannoujia, **Pavan Kumar Bangalore**, Srinivas Kantevari, Prabhakar Sripadi, “Identification and characterization of impurities in an insecticide, bifenthrin technical”, *Journal of Mass Spectrometry*, **2020**, 55, e4605.
- **Pavan Kumar Bangalore**, Ravikumar Pedapati, Abburi Naga Pranathi, Madhu Rekha Esthara, Sivakrishna Vagolu, Sriram Dharmarajan, Dileep Kumar Veeragoni, Sunil Misra, Srinivas Kantevari, “Aryl-*n*-Hexanamides Linked Usnic Acid Enaminone As Promising Antibacterial And Antitubercular Agents”, (*Manuscript submitted to ChemMedChem*)
- Pavan Kumar Bangalore, Abburi Naga Pranathi, Siva Krishna Vagolu, Dileep Kumar Veeragoni, Pallavi Chandrakant Choudante, Sunil Mishra, Dharmarajan Sriram, and Srinivas Kantevari, “Effect of Linker on The Antibacterial and Antitubercular Properties of Usnic Acid Enaminone-Coupled Substituted Aryloxy-*n*-Butyl-Linked 1,2,3-Triazoles”, (*Manuscript to be communicated*)

- Rajesh A. Rane, Rajshekar Karpoomath, Shital S. Naphade, **Pavankumar. Bangalore**, Mahadhanif Shaik, Girish Hampannavar, “Novel synthetic compounds inspired from antifeedant marine alkaloids as potent bacterial biofilm inhibitors”, *Bioorganic Chemistry*, **2015**, *61*, 66-73.
- Anand A Mahajan*, Rajesh A. Rane, Anish A. Amritkar, Shital S. Naphade, Pankaj B. Miniyar, **Pavan Kumar. Bangalore** and Rajshekhar Karpoomath, “Synthesis of novel amides based on acridone with interesting antineoplastic activity”, *Anticancer Agents in Medicinal Chemistry*, **2015**, *15*, 555-564.
- Rajesh A. Rane^{*1}, **Pavan Kumar. Bangalore**¹, Shital S. Naphade¹, Harun M. Patel, Mahesh B. Palkar and Rajshekhar Karpoomath, “Design and synthesis of novel antineoplastic agents inspired from marine bromopyrrole alkaloids”, *Anticancer Agents in Medicinal Chemistry*, **2015**, *15*, 548-554.
- Rajesh A. Rane¹, Shital B. Naphade, **Pavan Kumar Bangalore**, Mahesh B. Palkar, Mahamadhanif S. Shaikh and Karpoomath R*, “Synthesis of novel hybrids inspired from bromopyrrole alkaloids inhibiting MMP-2 and -12 as anti-neoplastic agents”, *Chemical Biology and Drug Design*, **2015**, *86*, 210-222.
- Rajesh A. Rane, Shital B. Naphade, **Pavan Kumar. Bangalore**, Mahesh B. Palkar, Mahamadhanif S. Shaikh and Karpoomath R*, “Synthesis of novel 4-nitropyrrole-based semicarbazide and thiosemicarbazide hybrids with antimicrobial and anti-tubercular activity”, *Bioorganic and Medicinal Chemistry Letters*, **2014**, *24*, 3079-3083.
- Rajesh A. Rane*, Shital S. Naphade, **Pavan Kumar. Bangalore**, Niteshkumar U. Sahu, Nishant Shah, Yogesh A. Kulkarni, Kalyani Barve, Leena Lokare and Rajshekhar Karpoomath*, “Synthesis and evaluation of novel marine bromopyrrole alkaloid-based derivatives as potential antidepressant agents”, *Chemical Biology and Drug Design*, **2014**, *84*, 593-602.
- Rajesh A. Rane^{*1}, **Pavankumar. Bangalore**¹, Sheetal D. Borhade and Preeti K. Khandare, “Synthesis and evaluation of novel 4-nitropyrrole-based 1,3,4-oxadiazole derivatives as antimicrobial and anti-tubercular agents”, *European Journal of Medicinal Chemistry*, **2013**, *70*, 49-58.
- Rajesh A. Rane*, Niteshkumar U. Sahu, Shweta D. Gutte, Anand A. Mahajan, Chetan P. Shah and **Pavankumar. Bangalore**, “Synthesis and evaluation of novel marine bromopyrrole alkaloid based hybrids as anticancer agents”, *European Journal of Medicinal Chemistry*, **2013**, *63*, 793-799.

CONFERENCES

- Presented a poster titled “(E)-3-(4-((E)-(2-(4,6-dimorpholino-1,3,5-triazin-2-yl)hydrazineylidene)methyl)phenyl)-1-aryl-prop-2-en-1-ones as potent antiviral and antitubercular agents”, in INTERNATIONAL CONFERENCE ON DRUG DISCOVERY **2020**”, organized by BITS-Hyderabad campus, Telangana.
- Presented a poster titled “Usnic Acid Enaminone-Coupled 1,2,3-Triazoles as Antibacterial and Antitubercular Agents”, in 9th Ramanbhai Foundation International Symposium on Current Trends in Healthcare, “Advances in New Drug Discovery And Development (February **2020**)”, organized by Zydus Cadilla, Ahmedabad, Gujarat.

- Participated in 21st CRSI National symposium in chemistry (July **2017**) organized by CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana, India.
- Participated in an International conference on Nature inspired Initiatives on Chemical Trends (September **2016**) (organic synthesis) organized by CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana, India.
- Participated in National Conference on Advances in Cancer Therapeutics (ACT-**2016**) organized by CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana, India.
- Presented a poster titled “Design, synthesis and docking studies on 1,3,4-oxadiazole compounds based on 4-nitropyrrole scaffold” in 19th ISCB international conference (March-**2013**) at MLSU, Udaipur, Rajasthan, India.
- 1st prize in “Young Innovators Choice Competition, ICT-Mumbai” for presenting a novel solution to petroleum industry problem. (Jan-**2012**)
- Participated and won awards in many oral presentation competitions in B.Pharm and M.Pharm.
- Appreciated by faculty and management on good communications and presentation skills.

AWARDS AND DISTINCTIONS

- Recipient of DST-INSPIRE research fellowship from government of India for pursuing doctoral studies.
- University 1st rank in M.Pharmacy (Pharmaceutical Chemistry), Mumbai.
- Graduate Record Examinations – December 2010 – Score:1110 (302 in new format)
- TOEFL – October 2013 – Score: 106.

HOBBIES

- Bike rides, reading novels with a cup of coffee, dog lover, reading about Astrology and singing songs.

REFERENCES

- Dr. Srinivas Kantevari, Senior Principal Scientist, FAC Division, CSIR-IICT, Hyderabad-007, Telangana, India. Email: kantevari@gmail.com
- Dr. Galla V Karunakar, Principal Scientist, FAC Division, CSIR-IICT, Hyderabad-007, Telangana, India. Email: gallavk@iict.res.in