

# RESUME

## **Dr. Pankaj Kumar**

Assistant Professor

Department of Pharmaceutical Chemistry

NGSM Institute of Pharmaceutical Sciences

Paneer, Deralakatte, Mangalore-575018.

Mobile:+ 91-7204851323, +91-8431828500

E-mail: [pankajpgr@gmail.com](mailto:pankajpgr@gmail.com)

**Date of Birth:** 05-01-1984

## **CAREER OBJECTIVE**

To utilize my knowledge and skills with the best of my abilities for the growth of the organization, fostering my professional career and work synergistically with the team efforts to achieve the objectives of the organization

## **WORK EXPERIENCE**

Working as Assistant professor Grade III Department of Pharmaceutical Chemistry, NGSM College for Pharmacy since July 2010 till present.

## **ACADEMIC PROFILE**

Description	Board/University	Percentage/CGPA
<b>Ph.D</b>	<b>Nitte University</b>	
<b>M. S (Pharm)</b>	<b>NIPER, Mohali</b>	<b>8.5 CGPA</b>
<b>GATE</b>	<b>IISc Bangalore</b>	<b>99.3 Percentile</b>
<b>B. Pharm</b>	<b>Manipal University</b>	<b>8.5 CGPA</b>
<b>Intermediate</b>	<b>BSEB</b>	<b>80%</b>
<b>Matriculation</b>	<b>ICSE</b>	<b>70%</b>

## **RESEARCH PROJECT:**

- Synthesis and biological evaluation of novel Oxazolidinones having Benzothiazinen moieties.
- Synthesis of 5-quinolinamines as Potential Antimalarial Agents.

## **TECHNICAL SKILLS**

- **Organic synthesis:** Expertise in carrying out **various organic synthetic reactions**.
- **Purification:** Skilled in column chromatography, HPLC, preparative TLC, flash chromatography, vacuum liquid chromatography.

- **Structural elucidation:** Very well versed with structure elucidation via spectral analysis [NMR ( $^1\text{H}$ ,  $^{13}\text{C}$ , NOSY, COSY, HMQC, HMBC), Mass spectroscopy (MALDI, LCMS, GCMS, APCI, ESI, EI, HRMS), FTIR, UV Spectroscopy, elemental analysis].

### **COMPUTER PROFICIENCY**

- ✓ Windows operating systems and application software: MS Office, Microsoft Publisher, ChemDraw, Reference Management Software (Endnote Plus),
- ✓ Scientific data retrieval from various Internet portals like **Google scholar, Science direct, Scifinder, Pubmed, Schrodinger** etc.

### **RESEARCH PROJECT:**

1. Synthesis of 5-quinolinamines as potential antimalarial Agents, under the guidance of Dr. Rahul Jain: In this project 12 compounds were synthesized and were confirmed using Mass ,N.M.R and I.R spectroscopy. Purity of the sample was checked using HPLC and were evaluated for anti- malarial activity. (NIPER ,MOHALI)
2. Synthesis and anti-microbial evaluation of Oxazolidinones derivatives: In this project more than 20 oxazolidinones derivatives were synthesized and confirmed using Mass, N.M.R and I.R spectroscopy. Purity of the sample was checked using HPLC and were evaluated for anti-microbial studies.(NITTE UNIVERSITY)
3. Spectroscopic estimation of raltegravir a antiretroviral drug: In this project accurate, precise, specific, and rapid economical method was developed for determination of raltegravir Potassium in pharmaceutical formulations using UV spectroscopy.(NITTE UNIVERSITY)
4. Development of fungicidal formulation for the management of fruit rot (Kole roga) of arecanut (Areca catechu) caused by phytophthora arecaea for CAMPCO Ltd.
5. Synthesis and biological evaluation of pyrimidine derivatives via pyrrolyl chalcones. (NITTE UNIVERSITY)

### **Subjects Teaching**

Pharmaceutical Organic Chemistry, Medicinal Chemistry, Pharmaceutical Inorganic Chemistry for B.Pharm and pharmaceutical analysis for B.Pharm and M.Pharm.

## **Workshops/ Seminars Attended**

1. Participated in the CDE Programme on “Application of Nanotechnology in Medicine” on 20<sup>th</sup> Feb 2010, at Vimshathi Bhavan, A.B. Shetty Memorial Institute of Dental Sciences, Deralakatte, Mangalore.
2. Participated in National level Workshop sponsored by Nitte University, Mangalore on “Innovative trends in Pharmaceutical Research” from 28<sup>th</sup>-29<sup>th</sup> July, 2010 at NGSM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore.
3. Participated in the two day Workshop sponsored by Nitte University, Mangalore on “Basic techniques in Experimental Pharmacology” from 17-18<sup>th</sup> Aug, 2010 at NGSM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore.
4. Participated in a National Workshop on “Research Methodology” held on 14<sup>th</sup> March 2010, at K.S Hegde Charitable Hospital, Deralakatte, Mangalore.
5. Participated in the two day Workshop sponsored by Nitte University, Mangalore and ICMR on “Conservation on Medicinal Plants and Preservation of Traditional Medicinal Plant Knowledge Base” from 4-5<sup>th</sup> Aug, 2011 organized by NGSM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore.
6. Participated at the In-Campus Workshop sponsored by Nitte University, Mangalore on “Inventing-Ideating-Patenting” held on April 2012, at K.S Hegde Charitable Hospital, Deralakatte, Mangalore.
7. Attended and participated in the 40 hour course on “Research Methodology& Biostatistics” held at AB Shetty Memorial Institute of Dental Sciences from 14<sup>th</sup> to 19<sup>th</sup> May, 2012
8. Participated in a 3-Day Workshop sponsored by Nitte University, Mangalore on “Educational Science & Technology for Pharmacy Teachers” from 26<sup>th</sup> to 28<sup>th</sup> July, 2012 organized by NGSM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore.
9. Participated as Rapporteur in Pharmacy, Physiotherapy and Medical Science held at Nitte University, Mangalore from Nov 1<sup>st</sup>-3<sup>rd</sup>, 2012 in the 33<sup>rd</sup> Annual Conference of IABMS 2012.

10. Participated in a One-Day Workshop sponsored by ICMR, New Delhi on "Medicinal Plants and Mental Health", 6<sup>th</sup> September 2013, held at NGSIM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore
11. Participated in a One-Day Seminar on "Trends in Clinical Research-An Overview", 12<sup>th</sup> November 2013, organized by the Department of Pharmaceutical Chemistry held at NGSIM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore.
12. Participated in the National Seminar on "Career Frontiers and Emerging Trends in Pharmaceutical Sciences" on 6<sup>th</sup>-7<sup>th</sup> March 2014, organized by Sri Adichunchanagiri College of Pharmacy, B.G. Nagara, Karnataka, India.
13. Participated in a One-Day Seminar on "Computer Aided Drug Design: Impact On Drug Development" and "Intellectual Property Rights" on 5<sup>th</sup> May 2014, held at NGSIM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore.
14. Attended the Dr N Sridhar Shetty Endowment lecture by Dr M I Savadatti on "Autonomous & Non Governmental Universities-Pros and Cons in Indian Context" on 9<sup>th</sup> July, 2014 at Vimshathi Bhavan, ABSMIDS Mangalore.
15. Participated in "Educational Institute on Responsible Conduct of Science" conducted by National Academy of Sciences and Nitte University Centre for Science Education Research from 30<sup>th</sup> April to 3<sup>rd</sup> May, 2015 held at Mangaluru.
16. Participated in the Three-day "Management Development Programme for Medical Professionals" conducted by the Centre, held at Nitte Education International, Mangaluru on 14<sup>th</sup>, 21<sup>st</sup> and 28<sup>th</sup> August, 2016.
17. Participated in One Day Seminar On "Perspectives On New Drug Discovery" organized by Department of Pharmaceutical Chemistry, NGSIM Institute of Pharmaceutical Sciences, Paneer, Deralakatte-575018, Mangaluru held on 3<sup>rd</sup> November, 2016.
18. Participated in One Day Workshop On "Biosafety Guidelines and Practices for Healthcare and Research" held at Nitte University, Deralakatte, Mangaluru-575018 on 13<sup>th</sup> January, 2017.
19. Participated in the Nitte University sponsored "National Seminar on Pharmacoeconomics and Patient Safety" organized by the Department of Pharmacy Practice, NGSIMIPS, Paneer, Deralakatte, Mangaluru held on 11<sup>th</sup> January 2017 at A B Shetty Memorial Institute of Dental Sciences, Deralakatte, Mangaluru, Karnataka.

20. Participated in One Day Seminar On "Intellectual Property Rights" held on 10<sup>th</sup> January 2017 at Seminar Hall, II<sup>nd</sup> Floor, K.S Hegde Charitable Hospital, Deralakatte, Mangaluru.
21. Participated in ICMR sponsored National Conference on "Role of Organic Chemical Intermediates in Cognitive Disorders and Mental Health" held on 17<sup>th</sup>-18<sup>th</sup> February, 2017 organized by Department of Pharmaceutical Chemistry, NGSM Institute of Pharmaceutical Sciences, Paneer, Deralakatte-575018, Mangaluru, Karnataka
22. Participated at international conference on green chemistry & nanotechnology opportunities and challenges on february 27 & 28, 2017 at st aloysius college (autonomous), Mangalore.

### **Papers Presented**

1. Chemistry of Thyroxine: An historical perspective and recent progress on its synthesis. National Institute of Pharmaceutical Science and Research, September 2008.
2. Chemistry of microwave-assisted one step synthesis of 8-arylmethyl-9h-purin-6-amines. National Institute of Pharmaceutical Science and Research, February 2010.
3. Co-author of the oral presentation entitled, "Synthesis, Antimicrobial, Analgesic and Anticancer Activity of Some Substituted Pyrimidines" held at Department of Studies in Chemistry, Mangalore University, Mangalagangothri, Mangalore from Dec 8<sup>th</sup> - 10<sup>th</sup>, 2011 in the International Conference on Synthetic and Structural Chemistry, ICSSC-2011.
4. Participated and presented a paper as oral presentation on the research paper entitled "Synthesis of 5- Quinolinamines as potent antimalarial agents" held at Department of Studies in Chemistry, Mangalore University, Mangalagangothri, Mangalore from Dec 8<sup>th</sup> -10<sup>th</sup>, 2011 in the International Conference on Synthetic and Structural Chemistry, ICSSC-2011.
5. Co-author of the oral presentation entitled "Synthesis, Antimicrobial, Analgesic and Anti-inflammatory Activity of Some Isoxazoline Derivatives" in the Scientific Poster Session of IPA Convention 2012 held at Manipal during 17<sup>th</sup>- 18<sup>th</sup> March, 2012.
6. Co-author of the oral presentation entitled "Synthesis and Characterization of Some Novel Derivatives of Quinolinylnyl Chalcones" held at Nitte University, Mangalore from Nov 1<sup>st</sup>-3<sup>rd</sup>, 2012 in the 33<sup>rd</sup> Annual Conference of IABMS 2012.

7. Participated and presented a paper as oral presentation on the research paper entitled "Synthesis of Novel Oxazolidinones having Benzothiazinen Moieties" held at Nitte University, Mangalore from Nov 1<sup>st</sup>-3<sup>rd</sup>, 2012 in the 33<sup>rd</sup> Annual Conference of IABMS 2012.
8. Co-author of the Poster presentation entitled, "Synthesis, Characterization and Antimicrobial Activity of Some Novel Quinolinyl Chalcones Derived From N-Substituted 2-Quinolones", in 32<sup>nd</sup> Annual Conference of Indian Council of Chemists, held at Department of Studies in Chemistry, Karnatak University, Dharwad on 28<sup>th</sup>-30<sup>th</sup> Nov, 2013.
9. Participated ,and presented a poster on the research paper entitled "Synthesis and Antibacterial Activities of Novel Oxazolidinones Having Benzo Thiazinen Moieties", in 32<sup>nd</sup> Annual Conference of Indian Council of Chemists, held at Department of Studies in Chemistry, Karnatak University, Dharwad on 28<sup>th</sup>-30<sup>th</sup> Nov, 2013.
10. Co-author of the Poster presentation entitled, "Synthesis, Antimicrobial and Cytotoxicity Activities of Newly Synthesized Pyrimidine Incorporated 2-Quinolones", in the National Conference on "Infectitious Diseases-A Medicinal Chemistry Perspective" held at Amrita School of Pharmacy, Kochi, Kerala on 29<sup>th</sup> and 30<sup>th</sup> August 2014.
11. Co-author of the Poster presentation entitled, "Synthesis and Biological Evaluation of Some Novel 2-Mercapto Pyrimidine Derivatives", in the National Seminar on "New Vistas in Biological Sciences" held at St Aloysius College (Autonomous), Mangalore on 15<sup>th</sup> and 16<sup>th</sup> January 2015.
12. Participated and presented Poster presentation entitled, "Synthesis and Antimicrobial Evaluation of Substituted Oxazolidinone Moieties", in the 21<sup>st</sup> Annual National Convention of APTI at Manipal University, Manipal on 14<sup>th</sup>-16<sup>th</sup> October, 2016.
13. Co-author of the Poster presentation entitled,, "Synthesis, Antioxidant and Cytotoxic Studies of Some Novel Pyrazoline Incorporated 2-Quinolones", in the 21<sup>st</sup> Annual National Convention of APTI at Manipal University, Manipal on 14<sup>th</sup>-16<sup>th</sup> October, 2016.
14. Participated and presented paper entitled "Synthesis and biological evaluation of pyrimidine derivatives via pyrrolyl chalcones" at international conference on green chemistry & nanotechnology opportunities and challenges on february 27 & 28, 2017 at st aloysius college (autonomous), Mangalore

## Papers Published

1. Simultaneous estimation of Atenol and Amlodipine besylate in tablet formulation by Vierordt's method using U.V Spectrophotometer. International research journal of pharmacy, vol 3 (2),2012
2. Click Chemistry: An Approach to Sustainable Development in Drug Synthesis. International Journal of Current Research and Review. 2012;4(2):22-31.
3. Synthesis, Pharmacological and Biological Screening of Novel Derivatives of Benzodiazepines. J Heterocyclic Chem 2014;51:1189-1192.
4. Synthesis and Evaluation of Oxazolidinones having Benzo Thiazinen Moieties As Antimicrobial and Anti-inflammatory Agents. Int Res J Pharm. 2013;4(8):260-264.
5. Synthesis of Some Novel Oxazolidinones having Benzo Thiazinen Derivatives as Antimicrobial and Anti-inflammatory Agents. IJPSDR. 2013;5(3):101-104.
6. Cytotoxic, Analgesic and Anti-inflammatory Studies of Pyrazoline Derivatives Derived From 2-Acetyl Pyrrole. Indian J Heterocycl Chem. 2013;23:69-74.
7. Synthesis and Biological Evaluation of Some Novel Pyrazoline Derivatives Derived From N-Substituted Quinoliny Chalcones. Int Res J Pharm. 2013;4(10):61-64.
8. Synthesis and Biological Activity of Some Novel Quinoliny Chalcones Derived from N-Substituted 2-Quinolones. Research J Pharm and Tech. 2013;6(12):1336-1339.
9. Synthesis and Biological Activities of Oxazolidinones having N-Methyl Benzo Thiazinen Derivatives. World Journal of Pharmaceutical Research. 2014;3(1):1473-1482.
10. Synthesis and Biological Evaluation of Some Novel Isoxazoline Derivatives of Carbostyryl. World Journal of Pharmacy and Pharmaceutical Sciences. 2014;3(2):1267-1277.
11. Synthesis, Anti-inflammatory and Antimicrobial Activity of Some Novel Carboxamide Derivatives of Naproxen. World Journal of Pharmacy and Pharmaceutical Sciences. 2014;3(2):2026-2034.
12. Synthesis, Pharmacological and Biological Screening of Some Novel Pyrimidine Derivatives. Med Chem Res. 2014;23(7):3458-3467.
13. Synthesis, Characterization and Biological Activity Studies of Some Substituted Pyrimidine Derivatives. Indian J Heterocycl Chem. 2014;23:271-276.

14. Synthesis, Antimicrobial and Anti-inflammatory Activity of Newly Synthesized Isoxazoline Incorporated 2-Quinolones. *IJPSDR*. 2014;6(2):124-127.
15. Synthesis, Analgesic and Anti-inflammatory Activity of Some Novel Derivatives of Naproxen. *Research J Pharm and Tech*. 2014;7(6):631-634.
16. Synthesis, Antimicrobial, Antitubercular and Cytotoxic Studies of Some Pyrimidine Derivatives Derived from Chalcones. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2014;3(8):1432-1439.
17. Synthesis and Antimicrobial Evaluation of Oxazolidinones Derivatives. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2014;3(8):1716-1722.
18. Synthesis, Antimicrobial and Anti-inflammatory Studies of Some Novel Schiff Base Derivatives. *International Journal of Drug Development and Research*. 2014;6(2):165-171.
19. Synthesis and Biological Evaluation of Some Novel Schiff Bases of 2-Quinolones. *International Journal of Pharmacy and Pharmaceutical Sciences*. 2014;6(8):518-521.
20. Synthesis and Antimicrobial Evaluation of Benzo Thiazinen Derivatives. *IJPSDR*. 2014;6(3):197-199.
21. Synthesis and Biological Evaluation of Some Novel Pyrimidine Derivatives Derived from Chalcones. *Research J Pharm and Tech*. 2014;7(9):995-998.
22. Synthesis and Antimicrobial Activity of Novel Oxazolidinones having Benzo Thiazine Derivatives. *Indian J Heterocycl Chem*. 2014;24:71-76.
23. Synthesis, Antimicrobial and Antitubercular Activities of Some Novel Carboxamide Derivatives of 2-Quinolones. *Oriental Journal of Chemistry*. 2014;30(4):1993-1997.
24. Synthesis of Some Active Evaluation of Oxazolidinones Derivatives. *Research J Pharm and Tech*. 2014;7(9):1292-1296.
25. Synthesis, Antioxidant and Cytotoxicity Studies of Some Novel Carboxamide Derivatives of 2-Quinolones. *Indian J Heterocycl Chem* 2015 .
26. Synthesis of Some Active Evaluation of Oxazolidinones Derivatives. *Research J Pharm and Tech*. 2014;7(9):1292-1296.
27. Synthesis, Antioxidant and Cytotoxicity Studies of Some Novel Carboxamide Derivatives of 2-Quinolones. *Indian J Heterocycl Chem*. 2015;30:333-336.
28. Synthesis, Antimicrobial and Cytotoxic Activity of Novel 1,5-Benzodiazepine Derivatives. *Indian J Heterocycl Chem*. 2015;25:161-64.



29. Synthesis and Antimicrobial Evaluation of Some Novel Derivatives of Coumarin Moiety. Research J Pharm and Tech. 2016;9(5):545-548.
30. Synthesis and Antimicrobial Evaluation of Some Substituted Oxazolidinones Moieties. Research J Pharm and Tech. 2017;10(1):1-4.
31. Synthesis and biological evaluation of pyrimidine derivatives via pyrrolyl chalcones. Research J Pharm and Tech. 2017;10(5).
32. Synthesis and antimicrobial evaluation of different substituted phenylpropenone pyrrolyl chalcones. Research J Pharm and Tech. 2017;10(6).
33. Synthesis and biological evaluation of some novel pyrazoline derivatives derived from chalcones. Research J Pharm and Tech 2017;10(5).
34. Synthesis, biological and pharmacological screening of novel pyrimidine derivatives. Research J Pharm and Tech 2017;10(5).
35. Synthesis and antimicrobial evaluation of some new isoxazoline incorporated pyrrole derivatives. Research J Pharm and Tech 2017;10(9).

### **Journal Reviewed**

Medicinal Chemistry Research

International Journal of Pharmacy and Pharmaceutical Sciences

International Journal of Drug Development and Research

Asian Journal of Pharmaceutical and clinical research

### **Achievements**

Graduate Record Examination Score (GRE) 1130.

Actively participated in many quiz and debate competitions and won prizes up to state level.