

Curriculum Vitae

Contact Address:

Dr.P. Krishna, MSc, PhD

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Accomplished chemical researcher

Expertise in multi-step synthesis, new synthetic methods and synthesis of biologically active products. Special interests in organic and medicinal chemistry research.

Objective

Aiming at excellence in the working field through smart work, dedication, and honesty at challenging environment.

Educational Profile

Ph. D Sri Venkateswara University, **2016**

Title: "Synthesis and spectral characterization of new bioactive heterocyclic/acyclic and linezolid-based phosphoramidate compounds".
Dept. of Chemistry, Tirupati,
India

M. Sc. Sri Venkateswara University **2004-2006**
(Organic Chemistry)

Industrial Experience

Working as Associate Scientist in GVKBIO, Hyderabad from Aug 1st 2020. Also worked in GVKBIO, Hyderabad since October 06 to Feb 09 as Senior Chemist in R&D department.

Teaching Experience

Worked as Asst. Professor in department of Chemistry, Geethanjali Institute of Science and Technology, Gangavaram, Kovuru mandal, Nellore Dist, Andhrapradesh, India from June 20 2016 to May 15 2020.

Job Profile

- Analysing the spectra.
- Developing the molecules by synthesis in different ways.
- Perfect planning to complete the project with in time.
- Capable of carrying independent and collaborative research.

Research Expertise

- Familiar with modern methods of organic synthesis and also capable of doing multi step synthesis in mg level to gm level.
- Well acquainted with chromatographic techniques such as TLC and Column Chromatography techniques
- Experienced in analysis and characterization of molecules using techniques like UV, IR, NMR and Mass spectrometry.

Reactions Handled

- Microwave synthesis reactions Reduction, cyclization, condensation, halogenation, Phosphorylation, nitrosation, sulfonation reactions, protection and de-protection of amines. Fridel-Crafts acylation, Catalytic hydrogenation reactions.

Reagents Handled

Pyrophoric reagents : n-BuLi, Palladium activated on charcoal, Raney Ni.

Reduction Reagents : Sodium borohydride, $\text{Na}_2\text{S}_2\text{O}_4$ and lithium aluminium hydride.
Protecting Reagents : Ter-butyl Di methyl silyl Phosphorus oxy chloride BOC anhydride
Halogenating Reagents : , Thionyl chloride, Phosphorus trichloride, N-Bromosuccinimide, N-Iodosuccinimide chloride,

Instruments Handled

- Experience in the operation of FT-IR (Nicolet IR-200 series).
- Experience in carrying out the Microwave reactions (Cata Scientific Microwave)
- Well acquainted with online literature survey through the chemical databases like Scifinder, Scopus, Reaxys, etc.

Area of Research Interest

- Synthetic Organic Chemistry.
- Transition metal catalysis and its applications in synthesis.
- Development of new synthetic methodology of target based drug design in organic synthesis.
- Design and synthesis of lead molecules for the development of macromolecules that find use in various fields.
- Design, synthesis and structural characterization of phosphorus heterocycles/acyclics as potential pharmaceuticals in medicine and with potential anticancer, anti-diabetic, anti-viral, anti-microbial, anti-osteoporosis and pesticidal activity.
- Synthesis and characterization of biodegradable and natural polymeric materials.
- Development of methodologies for the design and characterization of polymeric materials.

Computer Skills

- Statistical Analysis Systems- Clinical Trails (SAS)
- Windows Xp, 2000.
- MS Office.
- Knowledge of software like Chem. Draw, Chem. Draw-ultra, ISIS Draw, Chem. Sketch, etc.

Personal Data

Date of Birth	:	31-July-1982
Nationality	:	Indian
Marital Status	:	Married

Personel Evaluation

- Flexible to work in different environments
- Attitude towards learning new technologies
- Quick learner, adaptable to any kind of technologies
- Determined, dedicated and smart working
- Ability to deal with people diplomatically.

Achievements

- Reward and Recognition from GVKBIO
- Ratified in 2017 under JNTU, Ananthapur as Asistant Professor

Conferences/ Seminars/ Symposia/ Workshops/FDP attended

- Attended the national seminar on **“Recent advances in heterocyclic chemistry (NSRAHC-2011)”** held during 4-5th, November, 2011 and organized by Department of Chemistry, JNTUH College of Engineering, Hyderabad, India.
- Attended the international seminar on **“Emerging trends in synthetic organic & medicinal chemistry (ESMC-2013)”** held during 13-15th November, 2013 and organized by Department of Chemistry, Vikrama Simhapuri University, Nellore, India.
- Attended the UGC-national seminar on **“Recent trends in organic chemistry (NSRTOC)”** held on 19th December, 2013 and organized by Department of Chemistry, S. V. Arts College, TTD’ s, Tirupati.

- Attended the national conference on “**Role of chemistry in energy development and environmental protection (RCEE-2014)**” held during 3-4 March, 2014 and organized by Department of Chemistry, S. V. University, Tirupati in association with Association of environmental analytical chemistry of India.

Research Publications

1. Synthesis, Characterization, and Antibacterial Activity of New Linezolid-Based Phosphoramidate Derivatives, **P. Krishna**, D. Srinivasulu and Venkata S Kotakadi, **Phosphorus, Sulfur, and Silicon and The Related Elements**, 189: 1557-1563, 2014.
2. Synthesis and Biological evaluation of novel (4-chlorophenyl) ((1R, 3r, 5S)-3-(phenyl amino)-8-aza-bicyclo [3.2.1] octan-8-yl) methanone derivatives, Krishna Palaa, S. M. Reddy, Bijivemula N. Reddy, Madhvesh Pathak and C. Nageshwara Reddy, **Der Pharma Chemica**, 8(14), 67-72, 2016.
3. Chemoselective synthesis of new 5-amino-7-bromoquinolin-8-yl sulfonate ester derivatives and their antimicrobial evaluation, **P. Krishna**, **Phosphorus, Sulfur, and Silicon and The Related Elements**, 193: 685-690: 2018.
4. New class of diethyl substituted phosphoramidimidates and phosphonimidates: synthesis, spectral characterization and antimicrobial activity, M. Varalakshmi, Ch. Nagaraju and **P. Krishna**, *Published, Phosphorus, Sulfur, and Silicon and The Related Elements*, 193: 853-857:2018.
5. Design, synthesis and biological evaluation of new 5-amino-7-iodoquinolin-8-ol carbonate and sulfonate derivatives, **P. Krishna**, D. Srinivasulu and M. Balaji (Manuscript is under preparation).
6. Design, Synthesis, Characterization and Biological Evaluation of Novel Pyrazin Benzamide Derivatives (Communicated to *Organic Communications*)
7. Synthesis, spectral characterization and biological evaluation of new 5-chloro-2-phenoxyaniline carbamide/thiocarbamide derivatives, **P. Krishna** (Communicated to *Bulgarian Journal of Chemical Society*).
8. Synthesis, spectral characterization and antioxidant activity of new sulfonamide and α -aminophosphonate derivatives of 3-amino-6-bromo-2- methylpteridin-4(3H)-one, **P. Krishna**, D. Srinivasulu and Ch. Appa Rao (Communicated).

Declaration:

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

Place: Nellore

Date:

(P.KRISHNA)