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Qualifications:

- **Ph.D. : (Thesis submitted-2017)**, Sambalpur University, Odisha.
- **M. Phil. (Bioinformatics)**, Jawaharlal Nehru University, New Delhi, India, 2005.
- **UGC-CSIR National Eligibility Test (NET)** for Lectureship, June 2005, June 2004, December 2003, December 2001.

Research Interests:

In silico drug designing, Nano-enabled drug delivery, Infectious disease research.

Post Doc/ Work-experience:

- 1) **2010 – Present:** Asst. Professor, Chettinad Hospital & Research Institute
- 2) **2009-2010:** Visiting faculty, School of Life science, Sambalpur University, Odisha.

Patents / GenBank Submissions:

GenBank Submissions

1. *Leishmania donovani* isolate Indian prostaglandin f2-alpha synthase gene, complete cds, Depositor: Padmanabhan, P.K., **Rath, J.P.** and Madhubala, R.
GenBank Accession: EF486516.

Research Guidance

M.Sc.:

“**Evaluation of nano patch as oral vaccine delivery system for hepatitis-B vaccine**” January-May (2013), Candidate – Ms. T. Joshna, University Regd.No. 3110103, Chettinad Academy of Research And Education, Kelambakkam, Chennai, Tamil Nadu.

“**Study of nanoparticle - based oral vaccine delivery system using a rat model for hepatitis – B**” January-May (2012), Candidate – Mr. Bijaya Shrestha, University Regd.No. 31100501, Chettinad Academy of Research And Education, Kelambakkam, Chennai, Tamil Nadu.

“**Studies on complement consumption test to detect the circulating immune complexes**” January-May (2012), Candidate – Mr. Bachalakuri Sarath Chandu, University Regd.No. 31100504, Chettinad Academy of Research And Education, Kelambakkam, Chennai, Tamil Nadu.

“**Synthesis and biomedical application of silver-poly (lactic acid) nanocomposite**” January-May (2011), Candidate - Mr. A. Anand Kumar, University Regd.No. 31090501, Chettinad Academy of Research And Education, Kelambakkam, Chennai, Tamil Nadu.

Summary of Research:

Papers	4	Cites/paper	5.00	h-index	2	AWCR	1.40
Citations	21	Cites/author	0.37	g-index	1	AW-index	1.18
Years	6	Papers/author	0.25	hc-index	1	AWCRpA	0.35
Cites/year	1.50	Authors/paper	4.00	hl-index	0.25	e-index	2.45

Publications:

- **Jyoti Prakash Rath**, Mukesh Kumar Raval. Structure based screening of ligands against dTDP-6-deoxy-D-xylo-4-hexulose 3, 5-epimerase (RmlC): phytochemical as drug candidate for *Mycobacterium tuberculosis*. **Pharmaceutical and biological Evaluations, 2017, 4(2), 97-102.**
- Bijaya Shrestha, **Jyoti Prakash Rath**. Poly (vinyl alcohol) coated chitosan microparticles act as an effective oral vaccine delivery system for hepatitis – B vaccine in rat model. **IET- Nanobiotechnology, 2014,8(4), 201-207, IMPACT FACTOR: 1.72**
- A.K.Rath, B.N. Behera, **J.P.Rath**, B.N.Mishra. Alleviation of aluminium toxicity by calcium in *Brassica juncea* (L.) czernj & cosson. **Bionature, 2010, 30 (1),19-28, IMPACT FACTOR: 1.21**
- **Jyoti Rath**, V. S. Gowri, Swati C. Chauhan, Prasad K. Padmanabhan, N. Srinivasan and Rentala Madhubala. A glutathione-specific aldose reductase of *Leishmania donovani* and its potential implications for methylglyoxal detoxification pathway. **Gene,2009,429(1-2),1-9. IMPACT FACTOR: 2.37**

Conference / Workshop / Invited Lecture/ Resource person / Seminar/:

Workshop

- **“National Workshop on Structure Based Drug Designing”**, February 28 & March 1, 2015, organized by CAS in Crystallography & Biophysics and Bioinformatics Infrastructure Facility (DBT Funded), University of Madras, Guindy Campus – 600025, Tamil Nadu, India.
- DBT sponsored national symposium cum workshop on **“Recent Trends in Structural Bioinformatics and Computer Aided Drug Design”** [SBCADD-2012], 20-23rd February, 2012, Alagappa University, Karaikudi, Tamil Nadu, India.
- Indian Council of Agricultural Research sponsored National level training programme on **“Subject Training Workshop on Application of computational Biology in studying Abiotic stress in insects” under National Agricultural Bioinformatics Grid project (Indian Council of Agricultural Research)** 05-17th March-2012, organized by : National Bureau of Agriculturally Important Insect, Bangalore, India.
- Attended NAAC sponsored National seminar on **“Outreach- A catalyst towards improved Education Outcomes”** 28-29th September 2012, Organized by “Internal Quality Assurance Cell -Chettinad Academy of Research And Education”, Chennai, India.
- Delivered an invited lecture on **“Nanoparticle in drug and vaccine delivery”**, VIT University, Chennai, Tamil Nadu, India.
- Delivered a talk on **“Jaibasuchana Bigyan”** on All India Radio, Balangir, Odisha, India.
- Delivered a talk on **“search engines in bioinformatics”**, Indian Veterinary Research Institute, Izatnagar, Uttar Pradesh, India
- Invited speaker topic **“Molecular Docking”**, School of Life science, Sambalpur University, Odisha, India.
- **“Searching novel inhibitors for key rhamnase-biosynthetic enzyme, (RmlC), an emerging target in *Mycobacterium tuberculosis*”** at “International conference on Bio-molecular simulations and dynamics” 28-30th November 2013, [ICBSD-2013] IIT Madras.

- **“A glutathione-specific aldose reductase of *Leishmania donovani* and its potential implications for methylglyoxal detoxification pathway”** at DBT sponsored national symposium cum workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design”[SBCADD-2012] 20-23rd February, 2012, **Alagappa University, Karaikudi, Tamil Nadu, India.**

- **“A novel target in *Mycobacterium tuberculosis*”** at national symposium on “Recent Trends in Chemical Sciences”[Retics-2010] 20-23rd March, 2010, Dept. of Chemistry, Sambalpur **University, Sambalpur, Orissa, India.**

Resource Person

- **“Open house on Demonstrating the Genomic Technologies involved in the Genographic project”**, 15th February 2013, organized by: “The Genographic Laboratory, Chettinad Academy of Research And Education”, Chennai, India.