



## CONTACT

+91-877 899 7750

rrramajayam@gmail.com

Chennai, India

www.ramajayam.co.in

## EDUCATION

2004 - 2007

THE M.S UNIVERSITY OF BARODA

- Ph.D (Medicinal Chemistry)

2002 - 2004

The M.S University of Baroda

- M. Pharm (Medicinal Chemistry)

## RESEARCH GRANTS

Department of Science and  
Technology, India (2008)

Rs. 1986000 (US\$~51000)

Principle Investigator: "Schmidt  
Based Strategy for the Synthesis  
of Biologically Active Molecules

## SKILLS

- Research and Development
- Academic Leadership
- Teaching and Mentoring
- Curriculum Development
- Research Project Management
- Industry-Academic Collaborations
- Pharmaceutical Sciences
- Drug Discovery and Development

# Dr. R. Ramajayam

Dean, School of Pharmacy,  
Indus International University

## PROFILE

Results-driven pharmaceutical professional with a passion for teaching, research, and administration. Dedicated to advancing new drug discovery and API synthesis. Seeking opportunities for industry-academic collaborations and leadership roles. Committed to excellence in pharmaceutical education and research, driving innovation to improve healthcare outcomes.

## WORK EXPERIENCE - 20 YEARS

### Indus International University, Una

#### Dean- School of Pharmacy

- Provide strategic leadership to the School of Pharmacy, driving excellence in pharmaceutical education, research, and innovation.
- Oversee academic programs, including curriculum development, faculty management, and student affairs.
- Foster industry-academic collaborations, research partnerships, and community engagement initiatives.

### Swami Vivekanand College of Pharmacy, Punjab

#### Dean- Research & Development

- Led the research and development department, overseeing projects and initiatives to drive innovation and excellence in pharmaceutical research.
- Developed and implemented research strategies, collaborations, and funding initiatives to enhance the college's research profile.
- Mentored faculty and students in research projects, publications, and presentations, fostering a culture of research excellence.

### Vels University, Chennai

#### Professor

- Taught undergraduate and graduate courses in pharmaceutical sciences, guiding students in research projects, academic pursuits and worked on NAAC and NBA accreditations.
- Developed and curriculum implementation, research initiatives, and industry collaborations to enhance the department's reputation and impact.

### Onkar College of Pharmacy, Punjab, India

#### Director Research

- Directed research initiatives, providing leadership and guidance to faculty and students in research projects and publications.
- Established research collaborations with industry partners and academic institutions to advance pharmaceutical research and education.

## EXPERTISE

- Drug Discovery and Development
- API Synthesis
- Research Publication
- Team Management and Leadership
- Organic chemistry teachings

## ABROAD EXPERIENCE

- Osaka university, Japan
- Postdoc experience, **Taiwan**
- Faculty development training ,Japan

## AWARDS & ACHIEVEMENTS

2012 Specially Appointed Assistant Professor, Osaka University, Osaka, Japan

2011 Received Postdoctoral Fellowship from National Science Council, Taiwan

2009 Received Regular Postdoctoral Fellowship from Academia Sinica, Taiwan

2008 Received Fast Track Proposals for Young Scientists from DST, India

2006 Received Senior Research Fellowship (SRF) from ICMR, New Delhi, India

2004 Received Junior Research Fellowship (JRF) from UGC, New Delhi, India

2002 Received Junior Research Fellowship (JRF) from UGC, New Delhi, India

2002 Qualified GATE-2002 with 97.41 percentile

## WORK EXPERIENCE

### DIT University, Dehradun, India

#### Assistant Professor

- Taught undergraduate and graduate courses in pharmaceutical sciences, mentoring students in research projects and academic endeavors.
- Contributed to NAAC and NBA accreditation and research initiatives, enhancing the university's academic reputation.

### Enrich Pharma

#### Scientific Officer

- Consultant for new startups to setup new and modern R&D laboratory
- Provide technical expertise for exporting the nutraceuticals
- Procurement of raw materials for the clients
- Oversee market research to identify emerging trends, customer needs, and competitor strategies
- Monitor brand consistency across marketing channels and materials

### SRM University, Chennai, India

#### Professor

- Taught undergraduate and graduate courses in pharmaceutical sciences, guiding students in research projects and academic pursuits.
- Developed a modern laboratories for master students and conducted symposium at international level.

### Osaka University, Osaka, Japan

#### Assistant Professor

- Taught undergraduate and graduate courses in the field of organic chemistry to international students.
- Involved in the academic curriculum committee and implementation.
- Student selection committee member in the selection process and involved in the university promotional fair.
- Developed organic chemistry video tutorials for chemical engineers in collaboration Sumitomo Corporation, Japan

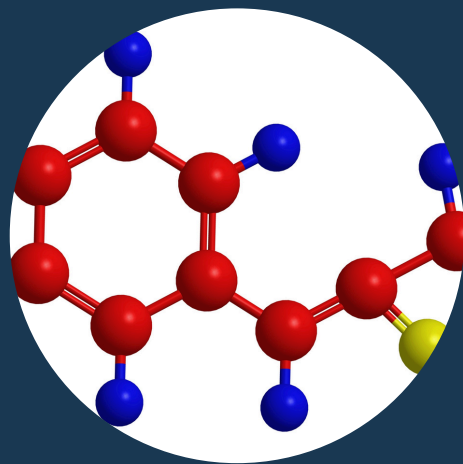
### Apicore Pharmaceuticals, India

#### Team Leader

- Lead a team of organic chemists
- Develop the process for API with respect to their quality and quantity.
- Execute the developed process in plant scale with process engineer.
- Create and review the R&D documentation
- Cost reduction
- Raw material cost sheet preparation.

## PROFESSIONAL EXPERIENCE

- Faculty Development training course, Osaka University (March 2014)
- Postdoctoral Fellow, Department of Chemistry, National Central University, Taiwan (August 2011 - November 2011)
- Postdoctoral Fellow, Institute of Biological Chemistry, Academia Sinica, Taiwan (August 2009 - July 2011)
- Postdoctoral Fellow, Department of Chemistry, IIT Madras, Chennai, India (November 2007 - August 2009)



## Research interests

Design, synthesis, characterization and evaluation of novel ligands for antiviral and antiplatelet agents.

## Reviewer in Scientific Journals

European Journal of Medicinal Chemistry, RSC Medicinal Chemistry, RSC Advances, Arabian Journal of Chemistry, Medicinal Chemistry Research



## PUBLICATIONS

(\* = Corresponding Author)

20. Sandeep Singh, Yu-Cheng Chu, Rajeev Kumar Sharma, Po-Huang Liang, **R. Ramajayam\***, Synthesis, in vitro and in silico studies of pyrazole analogs as SARS-CoV-2 inhibitors, Results in Chemistry, 2024, 9, 101649. (**Impact factor 2.5**)
19. Shweta Mishra, Ashlesha Chauhan, **R. Ramajayam**, Isolation, identification and structural characterization of forced degradation products of mobocertinib using LC-MS/MS and NMR, Results in Chemistry, 2024, 7, 101465. (**Impact factor 2.5**)
18. Sandeep Singh, Rajeev Kumar Sharma, **R. Ramajayam\***, Bis-pyrazole as receptor interacting protein 1 kinase inhibitor: Synthesis, preliminary biological evaluation against pancreatic cancer cell line and its docking studies, Results in Chemistry, 2024, 7, 101447. (**Impact factor 2.5**)
17. Sandeep Singh, Rajeev Kumar Sharma, Aishwarya Singh, Manoj Garg, **R. Ramajayam\***, Design, synthesis and biological evaluation of vicinal-diaryl pyrazole ethyl carboxylate analogs as antiproliferative agent against pancreatic cancer, Asian Journal of Chemistry, 2024, 36, 677. (**Impact factor 0.14**)
16. Sandeep Singh, P Geetha, **R. Ramajayam\***, Isolation, synthesis and medicinal chemistry of biphenyl analogs: A review, Results in Chemistry, 2023, 6, 101135. (**Impact factor 2.5**)
15. Deepak Kumar, Raj Kumar, **R. Ramajayam**, KW Lee, DS Shin, Synthesis, antioxidant and molecular docking studies of (-)-catechin derivatives, Journal of Korean Chemical Society, 2021, 65, 106. (**Impact factor 0.349**)
14. SS Kanu, A Ojha, **R. Ramajayam**, S Bhargava, An updated review on trans labial mucosa: A significant area to design and deliver a drug, Journal of Pharmaceutical Sciences and Research, 2020, 12, 1425. (**Scopus index**)
13. **R. Ramajayam\***, A new easy method for assigning absolute configuration without the use of models, Chemistry: Bulgarian Journal of Science Education, 2019, 28, 485. (**DOAJ index**)
12. **R. Ramajayam\***, Medicinal chemistry of vicinal diaryl scaffold: A mini review, European Journal of Medicinal Chemistry, 2019, 162, 1. (**Impact factor 6.0**)



## PUBLICATIONS

---

11. Rajani Giridhar, Riyaj S. Tamboli, **R Ramajayam**, Dhaval G. Prajapati, M. R. Yadav Assessment of antiplatelet activity of 2-aminopyrimidines, *European Journal of Medicinal Chemistry*, 2012, 50, 428. (**Impact factor 6.0**)
10. **R. Ramajayam**, Kian-Pin Tan, Po-Huang Liang, Recent development of 3CL and 3C protease inhibitors for anti-coronavirus and anti-picornavirus drug discovery, *Biochemical Society Transactions (Invited Review)* 2011, 39, 1371. (**Impact factor 3.9**)
9. **R. Ramajayam**, Kian-Pin Tan, Hun-Ge Liu, Po-Huang Liang, Synthesis and evaluation of pyrazolone compounds as SARS coronavirus 3C-like protease inhibitors, *Bioorganic Medicinal Chemistry*, 2010, 18, 7849. (**Impact factor 3.3**)
8. **R. Ramajayam**, Kian-Pin Tan, Hun-Ge Liu, Po-Huang Liang, Synthesis, docking studies and evaluation of pyrimidines as inhibitors of SARS-CoV 3CL protease, *Bioorganic Medicinal Chemistry Letters*, 2010, 20, 3569. (**Impact factor 2.5**)
7. **R. Ramajayam**, Nilesh B. Mehara, Nouri Neamati, Mange Ram Yadav, Rajani Giridhar, Synthesis and anti-HIV-1 integrase activity of cyano pyrimidinones, *Archiv der Pharmazie*, 2009, 342, 710. (**Impact factor 4.3**)
6. Dhaval G Prajapati, **R. Ramajayam**, Mange Ram Yadav, Rajani Giridhar, The search for potent, small Molecule NNRTIs: A review, *Bioorganic Medicinal Chemistry*, 2009, 17, 5744. (**Impact factor 3.3**)
5. **R. Ramajayam**, Rajani Giridhar, M. R. Yadav, R. Balaraman, Hakim Djaballah, David Shum, Constantin Radu, Synthesis, antileukemic and antiplatelet activities of 2,3-diaryl-6,7-dihydro5H-1,4-diazepines, *European Journal of Medicinal Chemistry*, 2008, 43, 2004. (**Impact factor 6.0**)
4. **R. Ramajayam**, Rajani Giridhar, M. R. Yadav, Hakim Djaballah, David Shum, Constantin Radu, Synthesis and antiproliferative activity of some diaryldiazepines and diarylpyrimidines, *Journal of Enzyme Inhibition and Medicinal Chemistry*, 2007, 22, 716. (**Impact factor 5.6**)
3. **R. Ramajayam**, R.Giridhar, M. R. Yadav, Current Scenario of 1,4-diazepines as potent biomolecules: A mini review, *Mini Reviews in Medicinal Chemistry*, 2007, 7, 793. (**Impact factor 3.3**)
2. **R. Ramajayam**, R.Giridhar, M. R. Yadav, Synthesis of novel substituted diaryl-1,4-diazepines, *Khimiya Geterotsiklicheskikh Soedinenii (Chemistry of Heterocyclic Compounds)*, 2006, 1042. (**Impact factor 1.4**)
1. **R. Ramajayam**, R. Giridhar, M. R. Yadav, Erick De Clercq, Christophe Pannecouque, Dhaval G Prajapati, 'Identification of novel non-nucleoside reverse transcriptase inhibitors using fragment based lead generation, *Medicinal Chemistry Research*, 2005, 14, 475. (**Impact factor 2.6**)



## PRESENTATIONS

---

- Sandeep Singh, Rajeev Sharma, Manoj Garg, R. Ramajayam "Bis-Pyrazole as Antiproliferative agent": Presented in 26th Annual National Convention-APTICON 2023 held at Pranveer Singh Institute of Technology, 2nd-3rd September 2023. Abstract No: PSIT/PP02/0049
- R. Ramajayam, Kian-Pin Tan, Po-Huang Liang, 'Recent development of 3CL and 3C protease inhibitors for anti-coronavirus and anti- picornavirus drug discovery': Presented in Joint SinoUK Protein Society Symposium - a meeting to celebrate the centenary of the Biochemical Society, May 2011.
- R. Ramajayam, R. Giridhar, M. R.Yadav, Design, synthesis and evaluation of 2,3-diaryl-1,4-diazepines as potential antiproliferative agents. Abstracts of Papers, 230th ACS National Meeting, Washington, DC, United States, Aug. 28-Sept. 1, 2005, MEDI-344.
- R Ramajayam, Rajani Giridhar and Mange Ram Yadav, '2,3-substituted diaryl-6,7-dihydro-5H1,4-diazepine as potential medicinal agents' 57th Indian Pharmaceutical Congress, Hyderabad, Dec. 02 to 04 2005, Abstract no. BP-54
- Shitesh R. Patel, M.M.Ganesh, R.Ramajayam, Rajani Giridhar and Mange Ram Yadav, '16 $\xi$ dimethylamine-3-pyrrolidino-5-androstane dimethiodide as a potential neuromuscular blocking agents' 55th Indian Pharmaceutical Congress, Chennai, Dec. 19 to 21 2003, Abstract no. BP-41



## INVITED LECTURE

---

Delivered a lecture and workshop on "Nuclear magnetic resonance and its application in structural elucidation" at Laureate Institute of Pharmacy on April 01, 2024