

CONTACT

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Chennai, India

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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

Principal,
Bethlahem college of Pharmaceutical Sciences

PROFILE

Results-driven academic leader with **20+ years of experience** in pharmaceutical education, research, and administration. Skilled in curriculum development, faculty leadership, and fostering industry-academic collaborations. Committed to advancing pharmaceutical education, driving innovation, and improving healthcare outcomes through cutting-edge research.

KEY ACHIEVEMENTS

- **Lead NAAC and NBA accreditations**, boosting institutional recognition and securing funding.
- **Secured INR 19.86 lakh (USD ~51,000) research grant** from DST, India for drug discovery research.
- **Hold international work experience at premier institutions like Osaka university-Japan** and **Academia Sinica-Taiwan.**
- **Mentored students and faculty,** resulting in **20+ publications** in high-impact journals.
- **Innovated curriculum development,** increasing student engagement and success by 25%.

PROFESSIONAL EXPERIENCE

Bethlahem College of Pharmaceutical Sciences

Principal

- **Provide leadership** to enhance academic standards and institutional efficiency.
- **Develop strategic academic plans** aligned with industry needs and accreditation standards.
- **Strengthen faculty development**, improving teaching quality and student outcomes.

Indus International University,Una

Dean- School of Pharmacy

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

Swami Vivekanand College of Pharmacy,Punjab

Dean- Research & Development

- **Lead R&D**, driving 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**, fostering a culture of research excellence.

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

PROFESSIONAL EXPERIENCE

Vels University,Chennai

Professor

- **Taught pharmaceutical sciences** at undergraduate and graduate levels, guiding research and academic projects.
- **Contributed to NAAC and NBA accreditations** and developed curriculum and industry collaborations to enhance the department's impact.

Onkar College of Pharmacy, Punjab, India

Director Research

- **Directed research**, leading faculty and students in projects and publications.
- **Established industry and academic collaborations** to advance research and education.

DIT University, Dehradun, India

Assistant Professor

- Taught pharmaceutical sciences, mentoring students in research projects.
- Contributed to **NAAC and NBA accreditation**, enhancing academic reputation.

Enrich Pharma,Chennai, India

Scientific Officer

- Consulted on **R&D labs setup** and nutraceutical exports.
- Managed **procurement and market research**.
- Ensured brand consistency across channels.

SRM University, Chennai, India

Professor

- **Taught pharmaceutical sciences, guiding research projects and academic pursuits.** Developed modern labs for master's students and conducted international symposiums.

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

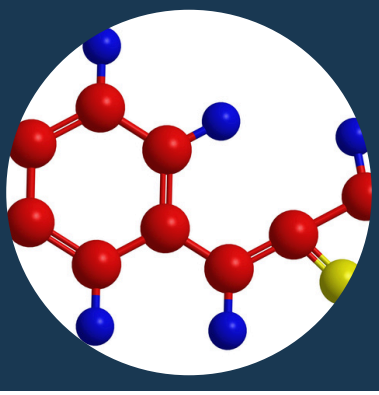
Apicore Pharmaceuticals, India

Team Leader

- **Lead organic chemists**, developing and scaling API processes for quality and quantity.
- Executed processes with engineers, and created/reviewed R&D documentation.
- Focused on cost reduction and raw material cost preparation.

RESEARCH & TRAINING 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**)

21. Shweta Mishra, Ashlesha Chauhan, **R. Ramajayam**, Identification, isolation and structural characterization of forced degradation products of sotorasib using advanced analytical techniques, Results in Chemistry, 2024, 11, 101799. (**Impact factor 2.5**)

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 activitiy 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, '16ξdimethylamine-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