

CURRICULUM – VITAE

Dr. Monika Rakse

LCIT School of Pharmacy, Bilaspur (CG)

Mob.No.: +91- 9424776549, 6232499545

E-Mail: mansi.rakse06@gmail.com



.....

Objective: To work in an organization where I can deliver my best and simultaneously, enhance my knowledge and skills that can be utilized for the development of the organization and my career.

Area of Interest: The areas of interest are Analytical study and Interpretation, Computer aided Drug Design and synthesis.

Educational Qualification

- **Ph.D.** Awarded in **Pharmaceutical Sciences** at **Department of Pharmaceutical Sciences (DOPS), Dr. Harisingh Gour University (DHSGU), Sagar (M.P.)**, under the guidance of **Prof. R. K. Agrawal**, on the topic entitled, “**Design, syntheses, characterization and biological evaluation of protein tyrosine phosphatase 1B inhibitors as anti-diabetic agents**”.
- **M.Pharm.** (68.96% First Class, 2012) in **Pharmaceutical Chemistry** from School of Pharmaceutical Sciences, **Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P)**, under the guidance of **Prof. Piyush Trivedi**.

Minor Project: -“Computer aided design, syntheses, characterization and biological evaluation of 3-acetamido-4-methyl benzoic acid derivatives as inhibitors of PTP1B enzyme”.

Major Project: - “Computer aided design, synthesis and characterization of (E)-2-(4-(4-hydroxy-3-methoxybenzylideneamino)-5-(4-hydroxyphenyl)-4H-1,2,4-triazol-N-(pyridine-2-yl) acetamide derivatives as Pfmrk inhibitors”.

- **B.Pharm.** (73.96% First Class, 2008) in **Pharmacy**, from **Lakshmi Narian College of Pharmacy Bhopal (M.P.), Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal (M.P.)**.
- Awarded **Pharmacist's Registration Certificate** from **M.P. State Pharmacy Council of India, Registration No. 19252**, Date of Registration 19/06/2009, Valid upto 31/12/2025.
- **Intermediate** (67.33% First Class, 2003) with Physics, Chemistry, **Biology**, Hindi, English, from Elite Hr. Sec. School Bhopal, **M.P. Board, Bhopal (M.P.)**.
- **High School Certificate** (69.66% First Class, 2001) with all subjects, from Elite Hr. Sec. School Bhopal, **M.P. Board, Bhopal (M.P.)**.

Computer Knowledge:

- Molecular Modeling Software Handling: **SCHRODINGER, FLEX-X** and **CHEM-OFFICE**.
- Operating Systems: Windows XP and Windows 10.
- Working knowledge in M. S. Office and well-versed in Internet usage.

Teaching Experience:

- Worked as Assistant Professor at LCIT School of Pharmacy Bilaspur (C. G.), from 19th April 2023 to till date.
- Worked as a Assistant Professor (Guest Faculty) at Department of Pharmacy, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh, from 25th January 2017 to 18th April 2023.
- Worked as a Guest Lecturer of Pharmacy at Department of Pharmacy, Barkatullah University, Bhopal, from 1st October 2012 to 28th February 2013.

Patents:

1. International Patent (UK)

Artificial Intelligence based medicine expiry detectors. Design Number **6327603**.
Registration date 21/11/2023, Published date 29/11/2023.

2. Indian Patent

Continuous transdermal alcohol monitoring device. Design Number **403826-001**, accepted and published, Journal No 12/2024 and Journal Date 22/03/2024.

Publication:

Published in the International Journal:

1. Design, synthesis and molecular modelling studies of novel 3-acetamido-4-methyl benzoic acid derivatives as inhibitors of protein tyrosine phosphatase 1B, **Monika Rakse**, Chandrabose Karthikeyan, Girdhar Singh Deora, N.S.H.N. Moorthy, Vandana Rathore, Arun K. Rawat, A.K. Srivastava, Piyush Trivedi, **European Journal of Medicinal Chemistry**, 70 (2013) 469-476.
2. Design, Synthesis and Biological Evaluation of 3-(2-(benzo[d]thiazol-2-ylthio) acetamido) benzoic Acid Derivatives as Inhibitors of Protein Tyrosine Phosphatase 1B, **Monika Rakse**, Chandrabose Karthikeyan, Narayana Subbiah Hari Narayana Moorthy and Ram Kishore Agrawal, **Letters in Drug Design and Discovery**, 2020, 18, 46-56.
3. Synthesis and PTP1B inhibitory activity of novel Benzthizole and 1,2,4-Triazole linked acetamido benzoic acid derivatives as antidiabetic activity, Monika Rakse and Ram Kishore Agrawal, **Journal of Advanced Scientific Research**, 2021, 12 (2), 101-111.
4. Development and Characterization of Gamma-Oryzanol loaded Folic Acid Conjugated Multi Walled Carbon Nanotubes, Jitendra Sardiya, Praveen Kumar Soni, **Monika Rakse**, Neeraj Sharma, **Frontier in Health Informatics**, 2024, Vol 13: Issue 8, 6860-6868.
5. A Review on Role of Transforming Growth Factor- β 1 in Hemorrhage, Aryan Tamboli, **Monika Rakse**, **International Journal of Pharmaceutical Sciences**, 2025, Vol 3, Issue 5, 2483-2493.
6. A Review: 3D Printing in Medical Technology, Nitesh Kurrey, **Monika Rakse**, **International Journal of Pharmaceutical Sciences**, 2025, Vol 3, Issue 5, 2967-2975.
7. Assessment of Patient Adherence and Adverse Drug Reaction in DOTS (Directly Observed Treatment, Short Course) Program, Rahul Kumar Sonkar, **Monika Rakse**, **International Journal Research Publication Analysis**, 2026, Vol 02, Issue 05, 1-13.
8. A review on comparative study between synthetic drugs and *syzygium cumini* extract in diabetes management, Akash Baghel, **Monika Rakse**, **Journal of Advance and Future Research**, 2026, Vol 4, Issue 4, 31-41.

International/ National Seminar/ Conferences Presented/ Participated/ Attended:

International Seminar/ Conferences Presented:

1. Presented a paper entitled “Eco-Friendly Biotechnological Strategies for Modern Drug Discovery” in the Two-Day International Seminar on Green Biotechnology and Artificial Intelligence organized by Department of Biotechnology, New Delhi on 21st -22nd Jan 2026.
2. Presented a paper entitled “Analytical Techniques for Quality Control of Indigenous Herbal Medicines” in the Two-Day International Seminar on Indigenous Knowledge Systems and Tribal Wisdom: Indian & Global Perspective organized by Dr. Ambedkar Chair, Indira Gandhi National Tribal University (IGNTU), Amarkantak on 28th -29th Nov 2025.
3. Presented a paper entitled “Effect of Xenobiotics on drug metabolism and drug-drug interaction” in the Two-Day International Seminar on Recent Microbial Advancements and Impact of Chemical Pollutants on the Components of Ecosystem (RMACPE-2025) organized by Department of Microbiology & Biotechnology, D.L.S., P.G. College, Bilaspur on 20-21 Nov 2025.
4. Presented a paper entitled “Artificial Intelligence and drug repurposing in drug designing” in the **International Conference** on Impact of Artificial Intelligence in revolutionizing pharmaceutical education and research organised by IPGA Chhattisgarh branch in association with University Institute of Pharmacy Pt. Ravi Shankar Shukla University, Raipur (C.G.) on 18th Feb 2024.
5. Presented a paper entitled “Computational drug repositioning in drug discovery: challenges and opportunities” in the **International Conference** on Challenges and opportunities in future Pharmaceutical Research and innovations (COFPRI 2023) organized by Indian Pharmacy Graduates Association (IPGA) M.P. state branch University culture centre DAVV Takshila campus Indore on 6th May 2023.
6. Presented a paper entitled “Synthesis and evaluation of novel phenyl benzthizole and 1,2,4-triazole 4-methyl acetamido benzoic acid derivatives as PTP1B inhibitors as antidiabetic agent” in the **International Conference** on Integrating Pharmaceutical

Technology with other branch of Sciences for Health management, organized by Columbia Institute of Pharmacy, Tekari, Raipur, C.G. from 1st-2nd February 2020.

7. Presented a paper entitled “Developing Pharmacy Education in India: Strategies and Practice for better future” in the **International Seminar** on New Education Policy and NAMODI Framework, organised by Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh from July 12th to 14th 2016
8. Presented a paper entitled “Synthesis of acetamido oxadiazole derivatives as inhibitors of wnt/ β -catenine pathway in Breast Cancer” in the **International Conference** on “Energy, Environment and Life Sciences for Sustainable Future”, organised by Swami Vivekanand University, Sagar M.P., from February 28th to March 1st 2014.
9. Presented a poster entitled “Design and Synthesis of acetamido benzoic acid inhibitors as WNT signalling as Breast cancer” in the **International Conference** on Frontier Discoveries and emerging opportunities in life Sciences organised by Department of Biotechnology, School of Biological Sciences, Dr. Hari Singh Gour University, Sagar, (M.P.) from February 13th to 15th 2014.

National Seminar/ Conferences Presented:

10. Presented a paper entitled “comparative study between synthetic drug syzygium cumini extract in diabetes” in the Two Days National Conference on Recent Advances and Future Perspectives in Pharmaceutical Nanotech and Herbal Sciences Organized by Sandipini College of Pharmacy Bilaspur on 16th & 17th April 2026.
11. Presented a paper entitled “Integration of Artificial intelligence in Radiopharmaceutical Discovery and imaging” in the National Conference on Ethics of AI: Challenges and Governance of Artificial Intelligence in Radio Pharmaceutical Research organised by Royal College of Pharmacy, Raipur on 5th – 6th December 2025.
12. Presented a paper entitled “Rational Drug Design: How Chemistry Shapes Modern Medicines” in the National Conference on Biotech-Enabled Pharmacy: Integrating Molecular Science and Therapeutic Innovation organised by Apollo College of Pharmacy on 5th – 6th February 2026.

13. Presented a paper entitled “Role of Artificial Intelligence in Docking Studies” in the National Conference on Current trends and innovations in pharmaceutical field organised by Corporate Institute of Pharmacy Bhopal on 21st – 22nd February 2024.
14. Presented a paper entitled “Importance and implementation of artificial intelligence in drug discovery and development” in the **National Seminar** on Importance and Implementation of artificial intelligence-based innovation in pharmaceutical industry organized by Radha Raman Institute of Pharmaceutical Sciences on 30th May 2023.
15. Presented a paper entitled “Role of Literature review on pharmaceutical sciences research” in the **National Research Video Webinar** on Review of Literature, Organized by, The Global Association of Social Sciences, on 26th May 2020.
16. Presented a paper entitled “Research methodology and pharmaceutical sciences” in the **National Research Video Webinar** on an introduction to research, Organized by, The Global Association of Social Sciences, on 23rd May 2020.
17. Presented a paper entitled “A Review Study on Protein Tyrosine Phosphatase 1B inhibitors from natural sources” in the **National Seminar** on Indian Tribal Medicinal Plants research: Challenges and Prospects, Organised by Department of Pharmacy, Indira Gandhi National Tribal University Amarkantak, Madhya Pradesh, from April 28th- 29th 2018.
18. Presented a paper entitled “Synthesis Characterization and Biological evaluation of 3-acetamido benzthiazole inhibits Wn/ β -Catenine Pathway in gastric cancer cell” in the **National seminar** on Emerging Trends in Drug Discovery, Pharmaceutical Science and Biomedical Research, organised by Department of Pharmacy, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh from March 17th- 18th 2018.
19. Presented a paper entitled “Molecular docking studies of 1,2,4-triazole derivatives as novel PTP1B inhibitors as antidiabetic agents” in the **National Seminar** on Recent development in Chemical Sciences, RDCS-2018, organized by, INGTU Amarkantak M.P. on 23rd-24th Feb 2018.
20. Presented a paper entitled “Impact of Pharmaceutical wastes on Communities in India” in the **National Workshop** on Management of Industrial wastes with special emphasis on

- bio management, organized by Department of Zoology, Govt. P. G. College, Bina, Sagar (M.P.) on 11th Nov 2016.
21. Presented a paper entitled “The new lead compound Identification through High Throughput Screening” in the **National Conference** on Developmental Challenges of Carbon Nanotubes as a Vaccine Delivery, organised by, Adina Institute of Pharmaceutical Sciences, Sagar, on September 19th 2015.
 22. Presented a paper entitled “Structure and Fragment based drug design and synthesis of Triazole derivatives as pfmrk inhibitors as antimalarial agents” in the **National Science Day** Celebration 2014 on the theme Fostering Scientific Temper, organised by, Dr. Hari Singh Gour University, Sagar, (M.P.) on February 28th 2014.
 23. Presented a poster entitled “Structure based Drug Design and Synthesis of acetamido benzoic acid derivatives as novel inhibitors of WNT/ β catenine pathway in the breast cancer cells” in the **National Seminar** on “Nanobiotechnology in Development of Nanomedicine: An advent Perspective” organised by, Daksh Institute of Pharmaceutical Sciences, Chhatarpur, (M.P.) on February 22nd 2014.
 24. Presented a poster entitled “Synthesis of 3-acetamido benzoic acid derivatives as novel inhibitors of WNT/ β catenine pathway” in the **National Seminar** on “World Cancer Day” organised by, APP, M.P., on February 4th 2014.
 25. Presented a poster entitled “Docking studies of triazole containing compounds on protein tyrosine phosphatase 1B as antidiabetic agent” in the **National Seminar** on Current trends in pharmaceutical technology and drug design, organized by Sagar Institute of Pharmaceutical Sciences, Sagar, Madhya Pradesh, on September 22nd 2013.

National Seminar/ Conferences Participated/ Attended:

26. Attended a **Webinar** on “Drug Discovery and Therapeutics” Organised by DAVV Indore, on June 26th 2020.
27. Attended an **International Webinar** on “Strategies against the COVID-19 Pandemic” Organised by Sir J. C. Bose Technical Campus, Kumaun University Nanital on June 18th 2020.
28. Attended an **International Webinar** on “Development of novel radiopharmaceuticals for cancer theranostics” Organised by Sankaralingam Bhuvanewari college of Pharmacy, Shivakasi, on June 10th 2020.

29. Attended a **National Webinar Series and online Quiz Contest** on “Self Reliant India: Golden opportunity in Pharma Sector” Organised by Mittal Institute of Pharmacy, Bhopal, on June 3rd- 8th 2020.
30. Attended an **International Webinar Series** on “Blue Biotechnology” Organised by J.K.K. Munirajah Institute of Health Sciences College of Pharmacy, Tamilnadu on June 5th 2020.
31. Attended an **International Webinar Series** on “Concept of Intellectual Property Rights” Organised by J.K.K. Munirajah Institute of Health Sciences College of Pharmacy, Tamilnadu on June 4th 2020.
32. Attended an **International Webinar Series** on “Surface engineering of inorganic & sustainable nanomaterials for biomedical and real-world application” Organised by J.K.K. Munirajah Institute of Health Sciences College of Pharmacy, Tamilnadu on June 3rd 2020.
33. Attended a **One-hour Live Webinar** on “e-Pharmacy: Challenges & opportunities in India” Organised by SVERI, College of Pharmacy, Pandharpur, Maharashtra, on May 16th 2020.
34. Attended a **National Seminar** on “Importance of Intellectual Property Rights in Innovation Management” Organised by Indira Gandhi National Tribal University and PHD Chamber of Conference and Industry, on July 26th 2018.
35. Attended an **International Conference** and Alumni Meet on Diamond Jubilee Celebrations on “Academia Industry Interaction: Global Pharma Prospects”, Organised by Department of Pharmaceutical Sciences, Dr. Hari Singh Gour University Sagar, (M.P.) from 6th to 7th February 2016.
36. Attended a **National Workshop** on “*Molecular Modeling and drug design*” Organised by Sagar Institute of Pharmaceutical Sciences, Sagar (M.P.), held on 17th Dec 2015.
37. Attended a **National Symposium** on “*Frontier in Modern Biology*” Organised by Department of Zoology, Dr. Hari Singh Gour University Sagar, (M.P.), held from 24th to 25th March 2014.
38. Attended a **National Seminar** on “*Targeting of Bioactive for therapeutic Benefits*” Organised by Adina Institute of Pharmaceutical Sciences, Sagar, (M.P.), held on 9th March 2014.

39. Attended a **One Day Workshop** on “*Nuclear Magnetic Resonance Spectroscopy and its Applications in Physics, Chemistry and biology*” Organised by, Dr. Hari Singh Gour University Sagar (M.P.), held on 16th Feb 2014.
40. Attended a **National Seminar** on “*Herbal Drug Scene Prospects and Challenges*” Organised by Bhagyodaya Tirth Pharmacy College, Sagar, (M.P.), held from 9th to 10th October 2013.
41. Attended a **National Seminar** on “*Current trends in Pharmaceutical Technology and Drug Design*” Organised by Sagar Institute of Pharmaceutical Sciences, Sagar, (M.P.), held on 22nd September 2013.
42. Attended a **National Conference** on “*Cellular and Molecular Medicine*”, Organised by, Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal (M.P.), held from 4th to 6th February 2010.
43. Participated as program Co-ordinator for seminar on Pharmacy Entrepreneurship: Opportunities and Challenges “Advancing the profession right from the beginning” held on 24th Feb 2025.

Training Programmes/Workshop/National Convention/FDP Participated/Attended:

44. Participated **Online 5 Days National Workshop** on “Research Methodology”, Organised by, IGNTU, Amarkantak, (M.P.), held from 26th- 30th May 2020.

Book Chapter Publication:

1. Monika Rakse, Chapter 4, “Computer Aided Drug development”, Nexus Knowledge Publication, Bilaspur, ISBN: 978-81-985724-6-2

Membership:

1. Member, Association of Pharmacy Professionals, in India.

Fellowship Received:

- Received the Non-NET fellowship by University Grant Commission (UGC) to complete (Ph.D.) thesis work.

Personal Profile:

Fathers Name : Shri. Tikaram Rakse
Mothers Name : Smt. Shakuntala Rakse
Date of Birth : 06.11.1984
Marital Status : Married
Spouse Name : Dr. Rajkumar Nagwanshee
Nationality : Indian
Languages Known : English & Hindi
Permanent Address : Vill. Salidhana, PO Ghoradongri, Dist. Betul (M.P)
Mobile No : **09424776549, 62324994545**

Reference:

Prof. N. S. H. N. Moorthy

Head
Department of Pharmacy
Indira Gandhi National Tribal University
Amarkantak, Madhya Pradesh
Ph. 9406939561
E-Mail: nshnarayanamoorthy@gmail.com

Prof. Asmita Gajbiye

Professor
Department of Pharmaceutical Sciences,
Dr. Harisingh Gour University, Sagar
(M.P.) 470003
Ph: 9425038954
E-Mail: asmitapatil27@rediffmail.com

Dr. C. Karthikeyan

Assistant Professor
Department of Pharmacy
Indira Gandhi National Tribal University
Amarkantak, Madhya Pradesh
Ph. 7587521152, 9039987897
E-Mail: karthinobel@gmail.com

Dr. Sushil Kashaw

Professor
Department of Pharmaceutical Sciences,
Dr. Harisingh Gour University, Sagar
(M.P.) 470003
Ph: 9425655720
E-Mail: sushilkashaw@gmail.com

Date : 04/03/2026

Place : Bilaspur

Signature,

(Dr. *Monika Rakse*)