

CURRICULUM VITAE

Dr. RUCHI MALIK

(M. Pharm. PhD)

Assistant Professor

Department of Pharmacy

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Professional/Post-PhD Research Experience:

Position Held	Name of Institute/ company	Period	Responsibilities
Assistant Professor	Central University of Rajasthan, India	September 16, 2013 to till date	Teaching: PG/pre-PhD classes and Research guidance. Administration: Convener of Exam Committee, Handled PCI inspection, NAAC Accreditation etc. School Board member
Post Doctoral fellow	University of Florence	March 2013-June 2013	Research work
Professor	TIFAC-CORE, Department of Pharmaceutical and Medicinal Chemistry, B. R. Nahata College of Pharmacy, Mandsaur, M.P.	March 22, 2012 to September 14, 2013	Teaching UG/PG, Research and Administration
Head	TIFAC-CORE, Department of Pharmaceutical and Medicinal Chemistry, B. R. Nahata College of Pharmacy, Mandsaur, M.P.	August 10, 2011 to August 31, 2013	Teaching, Research and Administration
Associate Dean	Lovely Professional University, Phagwara, Punjab	July 21, 2010 to November 27, 2010	Teaching, Research and Administration

Associate Dean	TIFACCORE, B. R. Nahata College of Pharmacy, Mandsaur, M.P.	January 01, 2008 to August 09, 2011	Teaching, Research and Administration
Reader	TIFACCORE, Department of Pharmaceutical and Medicinal Chemistry, B. R. Nahata College of Pharmacy, Mandsaur, M.P.	September 06, 2006 to March 21, 2012	Teaching UG/PG, Research and Administration
UGC Project Associate	UIPS, Panjab University, Chandigarh	March 22, 2002 to March 21, 2005	
Lecturer	Pharmaceutical Chemistry at SGRRITS, Patel Nagar, Dehradun	August 08, 2001 to March 13, 2002	Teaching UG classes, Administration

***Total teaching experience in years= 13 Years, 1 month**

Educational Qualifications:

Examination	Examining Board/University	Year of Passing	Percentage Obtained	Subject/s Offered	Division and Rank
Ph. D.	Panjab University, Chandigarh.	2007	Awarded on November 7, 2007	Pharmaceutical and Medicinal Chemistry	NA
M. Pharm.	University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh.	2001	67	Pharmaceutical Chemistry	I (Second Rank)
B. Pharm.	University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh.	1999	62.8	Pharmaceutical Sciences	I
Intermediate/H.S.C. or equivalent/ 12th	CBSE	1994	80.4	Chemistry, Physics, Biology, English, Physical Education.	I
Matriculation / S.S.C./ 10th	CBSE	1992	77.6	English, Sanskrit, Science, Mathematics, Social Science.	I

Ph.D. Thesis Title

“Synthesis and biological evaluation of some potential anti-amnesic compounds”

During Ph.D., work was focused on:

- Identification and design of various new lead molecules pertaining to various areas of therapeutic research.
- Synthesis and isolation of new molecules by various laboratory techniques.
- Characterization by various spectral techniques like NMR, IR, UV and elemental analysis. X-ray crystallographic studies of some selected compounds.
- Biological activity studies for various animal models using different pharmacological techniques.
- Biochemical screening of selected compounds.
- Documentation of experimental work.

M. Pharm. Title

“Synthesis and study of some potential anti-amnesic agents”

Research Grants

Sponsored Projects:

1. Project Title: Design, synthesis and biological evaluation of some novel aryloxy derivatives as potential AChE inhibitors
Project Status: Completed; Duration: 2 Years (From July 18, 2014 to July 17, 2016)
Total Budget: 6 Lakhs; Funding Agency: University Grants Commission, India
Type: National
2. Project Title: Computational studies, synthesis and biological evaluation of novel pyrimidin-4-amine derivatives, as multikinase inhibitors
Project Status: Ongoing; Duration: 3 Years (From August 10, 2016 to August 09, 2019)
Total Budget: 7.68 Lakhs; Funding Agency: DST-Rajasthan, India
Type: National
3. Project Title: Targeted, Safe and Effective Delivery of Doxorubicin to Breast Cancer by Means of Strategically Design
Project Status: Ongoing; Duration: 3 Years (February 15, 2017 to February 14, 2020)
Total Budget: 48 Lakhs; Funding Agency: Department of Biotechnology, India
Type: National
4. Project Title: Design, synthesis and biological evaluations of β -secretase inhibitors as anti-Alzheimer's agents
Project Status: Ongoing; Duration: 2 Years (June 07, 2017 to June 06, 2019)
Total Budget: 19.84 Lakhs; Funding Agency: Department of Science & Technology-India and Ministry of Science & Higher Education –Poland (**DST-Indo-Poland Project**)
Type: International

5. Project Title: Design, synthesis and biological evaluation of GSK-3 β inhibitors as cognition enhancers
Project Status: Approved; Duration: 2 Years
Total Budget: Funding Awaited; Funding Agency: Department of Science & Technology-India and German Academic Exchange Service (**DST-DAAD Project**)
Type: International

Consultancy projects:

1. Project Title: Quality Control Protocol Development of herbal formulation DIANO and characterization of isolated alkaloids
Project Status: Completed; Duration: 2 Years; Total Budget: 2 Lakhs
Funding Agency: SIRO-DSIR and Padmavati Group of Companies
2. Project Title: Development of a process for production of sugar/oligosaccharide free phosphatidylcholine
Project Status: Completed; Duration: 1 Year; Total Budget: 10 Lakhs
Funding Agency: DST TIFAC-CORE and Sonic Biochem Extractions Ltd.
3. Project Title: Development of a cost economic process for separation and purification of phytosterol to meet international
Project Status: Completed; Duration: 2 Years; Total Budget: 20 Lakhs
Funding Agency: DST TIFAC-CORE and Sonic Biochem Extractions Ltd.
4. Project Title: Development of a process for conversion of phosphatidylcholine to phosphatidylserine
Project Status: Completed; Duration: 3 Years; Total Budget: 30 Lakhs
Funding Agency: DST TIFAC-CORE and Sonic Biochem Extractions Ltd.
5. Project Title: Devise a method to convert phytosterol to water dispersible phytosterol
Project Status: Completed; Duration: 1 Year; Total Budget: 10 Lakhs
Funding Agency: DST TIFAC-CORE and Sonic Biochem Extractions Ltd.
6. Project Title: To develop and evaluate liposomal drug delivery system by using lecithin (Soya phosphatidylcholine)
Project Status: Completed; Duration: 3 Years; Total Budget: 30 Lakhs
Funding Agency: DST TIFAC-CORE and Sonic Biochem Extractions Ltd.
7. Project Title: Yield enhancement of PNT bromination
Project Status: Completed; Duration: 2 Years; Total Budget: 2 Lakhs
Funding Agency: SIRO-DSIR and Saurav Chemicals Ltd.

Awards and Honors:

1. Felicitated by Central University of Rajasthan for Research Achievements on March 03, 2014

2. Post-Doc Fellowship University of Florence, Italy
3. International Travel Grant award by Department of Science and Technology (DST), Govt. of India, 2007 for a Research presentation at 2007 American Association Of Pharmaceutical Sciences Annual Meeting And Exposition, November 11-15, 2007 San Diego, California, USA, Abstract ID. AM-07-03796.
4. Awarded U.G.C Project Research Fellowship, Govt. of India (Project associate of UGC Major Research Project 2002-2005).
5. Awarded A.I.C.T.E Research Fellowship, Govt. of India (GATE fellowship 1999-2001).
6. Second Position in Panjab University in M.Pharm. Chem. II Semester (2001)
7. Distinction in B.Pharm in Mathematics subject (1999).
8. Distinction in all subjects in AISSCE, CBSE Examination (1994)
9. Merit in Science, Distinction in Maths, ENGLISH in AISSE, CBSE Examination (1992).

Patents:

1. R.Malik, M.Sharma, "Novel Series of alkoxyphenylcarboxamido derivatives II (Patent Application No. 2298/MUM/2014)
2. R.Malik, M.Sharma, "New α -acyl β -phenyl propanoic acid as PPAR- α based Hypolipidemic agent" (Patent Application No. 1276/DEL/2014)
3. R.Malik, M.Sharma, "Novel Series of alkoxyphenylcarboxamido derivatives (Patent Application No. 400/MUM/2012)

Books:

Manish Sharma, V.B.Gupta, Ruchi Malik. Prediction of Glycine/NMDA Receptor Antagonism: Comparative QSAR and Molecular Docking Simulations, peer reviewed book published by Lambert Academic Publishing GmbH & Co. KG, Germany in 2012 (ISBN: 978365917 9723).

Chapters in Books:

1. P. Kumar, K. Raza and R. Malik. Pharmacokinetics and biodistribution of the nanoparticles, peer reviewed chapter published in "Advances in Nanomedicine for the delivery of Therapeutic Nucleic Acids" by Springer in 2017 (ISBN: 978-0-08-100557-6).
2. P. Kumar, K. Raza and R. Malik. Brain Delivery by Oral Nanoparticles: Promises, Challenges and Future Prospects, peer reviewed chapter published in "NanoBioMaterials" by CRC Press (Taylor and Francis) in 2016 (ISBN: 1-62699-050-6).

Publications:

1. Sukanya, Choudhary, B. S., Mehta, P., Filipek, S., **Malik, R.** Identification of CNS compatible small molecules as Glycogen synthase kinase-3 β (GSK-3 β) inhibitors through structure-based virtual screening. Medicinal Chemistry Research, (Manuscript ID: MCRE-D-22-00104R2), Doi.org/10.1007/s00044-022-02912-z (**Impact factor: 1.965**) (Manuscript Accepted).

2. Bellver-Sanchis, A.*, Choudhary, B.S.*, Companys-Aleman, J., Sukanya, Ávila-López, P. A., Rodríguez, A. L. M., Jose Manuel Brea Floriani, J. M. B., **Malik, R.**, M Pallàs, M., Pérez, B., Griñán-Ferré, C. Structure based virtual screening, in-vitro and in-vivo analysis revealed novel potent methyltransferase G9a inhibitors as prospective anti-Alzheimer's agents. *ChemMedChem*. Doi.org/10.1002/cmcd.202200002 (**Wiley, Impact factor: 3.466**)
3. Choudhary, B. S., Sukanya, Mehta, P., Bach, S., Ruchaud, S., Robert, T., Josselin, B., Filipek, S., **Malik, R.** Discovery of thiazolidin-4-one analogue as Selective GSK-3 β inhibitor through structure based virtual screening. *Bioorganic and Medicinal Chemistry Letters*, 2021, 52, 128375. Doi.org/10.1016/j.bmcl.2021.128375 (**Impact Factor: 2.823**)
4. Srivastava, S., Mehta, P., Sharma, O., Sharma, M., **Malik, R.** Computationally guided identification of Akt-3, a serine/threonine kinase inhibitor: Insights from homology modelling, structure-based screening, molecular dynamics and quantum mechanical calculations. *Journal of Biomolecular Structure and Dynamics*, 2020, 38 (14), 4179-4188. Doi.org/10.1080/07391102.2019.1675536.
5. Srivastava, S., Choudhary, B.S., Mehta, P., Sukanya, Sharma, M., & **Malik, R.** Molecular dynamic insights for PI3K- δ inhibition & structure guided identification of novel PI3K- δ inhibitors. *Journal of Biomolecular Structure and Dynamics*, 2019, 37(9), 2404-2414. Doi.org/10.1080/07391102.2018.1489304
6. Mishra, M., Kumar, P., Rajawat, J. S., **Malik, R.**, Sharma, G., & Modgil, A. (2019). Nanotechnology: Revolutionizing the Science of Drug Delivery. *Current pharmaceutical design*. Doi: 10.2174/1381612825666190206222415 [**Impact factor-2.757**]
7. Kumar, P., Sharma, G., Gupta, V., Kaur, R., Thakur, K., **Malik, R.**, Kumar, A., Kaushal, N., Katare, O.P. and Raza, K. (2019). Oral Delivery of Methylthioadenosine to the Brain Employing Solid Lipid Nanoparticles: Pharmacokinetic, Behavioral, and Histopathological Evidences. *AAPS PharmSciTech*, 20(2), 74. Doi: 10.1208/s12249-019-1296-0 [**Impact factor-2.666**]
8. Srivastava, S., Vengamthodi, A., Singh, I., Singh Choudhary, B., Sharma, M., **Malik R.*** Determination of comprehensive in silico determinants as a strategy for identification of novel PI3K α inhibitors (2019). *Structural Chemistry* Doi: 10.1007/s11224-019-01303-2 [**Impact factor-2.019**]
9. Mehta, P., Srivastava, S., Sharma, M., **Malik R.*** (2019) Discovery of novel chemotypes for competitive AMPA receptor antagonists as potential antiepileptic agents through structure-based virtual screening of natural products library. *Structural Chemistry* Doi: 10.1007/s11224-018-1269-z [**Impact factor-2.019**]
10. Mehta, P., Srivastava, S., Sharma, M., Singh, I., & **Malik, R.*** (2018). Identification of chemically diverse GABAA agonists as potential anti-epileptic agents using structure-guided virtual screening, ADMET, quantum mechanics and clinical validation through off-target analysis. *International journal of biological macromolecules*, 119, 1113-1128. Doi: 10.1016/j.ijbiomac.2018.08.032 [**Impact factor-3.909**]
11. Piplani, P., Sharma, M., Mehta, P., & **Malik, R.*** (2018). N-(4-Hydroxyphenyl)-3, 4, 5-trimethoxybenzamide derivatives as potential memory enhancers: synthesis, biological evaluation

- and molecular simulation studies. *Journal of Biomolecular Structure and Dynamics*, 36(7), 1867-1877. Doi: 10.1080/07391102.2017.1336943 [**Impact factor-3.107**]
12. Kumar P., Sharma G., Gupta V., Kaur R., Thakur K., **Malik R.**, Kumar A., Kaushal N., Raza K. (2018). Preclinical Explorative Assessment of Dimethyl Fumarate-Based Biocompatible Nanolipoidal Carriers for the Management of Multiple Sclerosis. *ACS Chemical Neuroscience*. 9(5) Doi: 10.1021/acchemneuro.7b00519.[**Impact factor-3.883**] **Cover page**
 13. Srivastava, S., Singh Choudhary, B., Mehta, P., Sukanya, Sharma, M., & **Malik, R.*** (2018). Molecular dynamics insights for PI3K- δ inhibition & structure guided identification of novel PI3K- δ inhibitors. *Journal of Biomolecular Structure and Dynamics*, 1-11. Doi: 10.1080/07391102.2018.1489304 [**Impact factor-3.107**]
 14. Kumar P., Sharma G., Kumar R., **Ruchi M.**, Singh B., Katare O. P., Raza K. 2017. Stearic Acid-based, Systematically Designed Oral Lipid Nanoparticles for Enhanced Brain Delivery of Dimethyl Fumarate. *Nanomedicine (Lond.)*. 12(23, 2607-2621 doi: 10.2217/nmm-2017-0082. [**Impact factor-4.727**]
 15. Mehta, P., Srivastava, S., Choudhary, B. S., Sharma, M., & **Malik, R.*** (2017). Probing voltage sensing domain of KCNQ2 channel as a potential target to combat epilepsy: a comparative study. *Journal of Receptors and Signal Transduction*, 37(6), 578-589. (Impact Factor: 1.614)
 16. Piplani, P.*, Sharma, M., Mehta, P., & **Malik, R.*** (2017). *N*-(4-Hydroxyphenyl)-3, 4, 5-trimethoxybenzamide derivatives as potential memory enhancers: Synthesis, biological evaluation and molecular simulation studies. *Journal of Biomolecular Structure and Dynamics*, 1-11. (Impact Factor: 3.123)
 17. Chander, S., Pandey, R. K., Penta, A., Choudhary, B. S., Sharma, M., **Malik, R.**, Prajapati, V. K., & Murugesan, S. (2017). Molecular docking and molecular dynamics simulation based approach to explore the dual inhibitor against HIV-1 reverse transcriptase and Integrase. *Combinatorial Chemistry & High throughput Screening*, 20(8), 734-746. (Impact Factor: 0.952)
 18. Chaudhary, S., Gothwal, A., Khan, I., Srivastava, S., **Malik, R.**, & Gupta, U. (2017). Polypropyleneimine and polyamidoamine dendrimer mediated enhanced solubilization of bortezomib: Comparison and evaluation of mechanistic aspects by thermodynamics and molecular simulations. *Materials Science and Engineering: C*, 72, 611-619. (Impact Factor: 4.164)
 19. Kumar, P., Sharma, G., Kumar, R., **Malik, R.**, Singh, B., Katare, O. P., & Raza, K. (2017). Vitamin-derived nanolipoidal carriers for brain delivery of dimethyl fumarate: a novel approach with preclinical evidence. *ACS Chemical Neuroscience*, 8(6), 1390-1396. (Impact Factor: 3.883)
 20. Kumar, P., Kumar, R., Singh, B., **Malik, R.**, Sharma, G., Chitkara, D., Katare, O. P. & Raza, K. (2017). Biocompatible phospholipid-based mixed micelles for tamoxifen delivery: Promising evidences from in-vitro anticancer activity and dermatokinetic studies. *AAPS PharmSciTech*, 18(6), 2037-2044. (Impact Factor: 2.451)
 21. Kumar, P., Sharma, G., Kumar, R., Singh, B., **Malik, R.**, Katare, O. P., & Raza, K. (2016). Promises of a biocompatible nanocarrier in improved brain delivery of quercetin: Biochemical, pharmacokinetic and biodistribution evidences. *International Journal of Pharmaceutics*, 515(1-2), 307-314. (Impact Factor: 3.649)
 22. Kumar, P., Sharma, G., Kumar, R., **Malik, R.**, Singh, B., Katare, O. P., & Raza, K. (2017). Enhanced brain delivery of dimethyl fumarate employing tocopherol-acetate-based nanolipidic

- carriers: evidence from pharmacokinetic, biodistribution, and cellular uptake studies. *ACS Chemical Neuroscience*, 8(4), 860-865. (Impact Factor: 3.883)
23. **Malik, R.***, Choudhary, B. S., Srivastava, S., Mehta, P., & Sharma, M. (2017). Identification of novel acetylcholinesterase inhibitors through e-pharmacophore-based virtual screening and molecular dynamics simulations. *Journal of Biomolecular Structure and Dynamics*, 35(15), 3268-3284. (Impact Factor: 3.123)
 24. **Malik, R.***, Mehta, P., Srivastava, S., Choudhary, B. S., & Sharma, M. (2017). Structure-based screening, ADMET profiling, and molecular dynamic studies on mGlu2 receptor for identification of newer antiepileptic agents. *Journal of Biomolecular Structure and Dynamics*, 35(16), 3433-3448. (Impact Factor: 3.123)
 25. **Malik, R.***, Bunkar, D., Choudhary, B. S., Srivastava, S., Mehta, P., & Sharma, M. (2016). High throughput virtual screening and *in silico* ADMET analysis for rapid and efficient identification of potential PAP248-286 aggregation inhibitors as anti-HIV agents. *Journal of Molecular Structure*, 1122, 239-246. (Impact Factor: 1.753)
 26. **Malik, R.***, Mehta, P., Srivastava, S., Choudhary, B. S., & Sharma, M. (2017). Pharmacophore modeling, 3D-QSAR, and in silico ADME prediction of *N*-pyridyl and pyrimidine benzamides as potent antiepileptic agents. *Journal of Receptors and Signal Transduction*, 37(3), 259-266. (Impact Factor: 1.614)
 27. **Malik, R.***, Gupta, R., Srivastava, S., Choudhary, B. S., & Sharma, M. (2017). Design, synthesis and biological evaluation of selected 3-[3-(amino) propoxy] benzenamines as acetylcholinesterase inhibitors. *Journal of Biomolecular Structure and Dynamics*, 35(11), 2382-2394. (Impact Factor: 3.123)
 28. Raza, K., Kumar, N., Misra, C., Kaushik, L., Guru, S. K., Kumar, P., **Malik, R.**, Bhushan, S., & Katare, O. P. (2016). Dextran-PLGA-loaded docetaxel micelles with enhanced cytotoxicity and better pharmacokinetic profile. *International Journal of Biological Macromolecules*, 88, 206-212. (Impact Factor: 3.671)
 29. Srivastava, S., Choudhary, B. S., Sharma, M., & **Malik, R.*** (2016). Pharmacophore modeling and 3D-QSAR studies of galloylbenzamides as potent P-gp inhibitors. *Medicinal Chemistry Research*, 25(6), 1140-1147. (Impact Factor: 1.277)
 30. Pandey, R. K., Kumbhar, B. V., Srivastava, S., **Malik, R.**, Sundar, S., Kunwar, A., & Prajapati, V. K. (2016). Febrifugine analogues as Leishmaniadonovanitypanothione reductase inhibitors: binding energy analysis assisted by molecular docking, ADMET and molecular dynamics simulation. *Journal of Biomolecular Structure and Dynamics*, 35(1), 141-158. (Impact Factor: 3.123)
 31. Pandey, R. K., Narula, A., Naskar, M., Srivastava, S., Verma, P., **Malik, R.**, Shah, P., & Prajapati, V. K. (2016). Exploring dual inhibitory role of febrifugine analogues against Plasmodium utilizing structure-based virtual screening and molecular dynamic simulation. *Journal of Biomolecular Structure and Dynamics*, 35(4), 791-804. (Impact Factor: 3.123)
 32. Kumar, P., Raza, K., Kaushik, L., **Malik, R.**, Arora, S., & Prakash Katare, O. (2016). Role of colloidal drug delivery carriers in taxane-mediated chemotherapy: a review. *Current Pharmaceutical Design*, 22(33), 5127-5143. (Impact Factor: 2.611)
 33. Raza, K., Thotakura, N., Kumar, P., Joshi, M., Bhushan, S., Bhatia, A., Kumar, V., **Malik, R.**, Sharma, G., Guru, S. K. & Katare, O. P. (2015). C₆₀-fullerenes for delivery of docetaxel to breast

- cancer cells: a promising approach for enhanced efficacy and better pharmacokinetic profile. *International Journal of Pharmaceutics*, 495(1), 551-559. (Impact Factor: 3.649)
34. Guandalini, L., Martino, M. V., Mannelli, L. D. C., Bartolucci, G., Melani, F., **Malik, R.**, Dei, S., Floriddia, E., Manetti, D., Orlandi, F., Teodori, E., Gherlardini, C., Romanelli, M. N. (2015). Substituted piperazines as nootropic agents: 2-or 3-phenyl derivatives structurally related to the cognition-enhancer DM235. *Bioorganic & Medicinal Chemistry Letters*, 25(8), 1700-1704. (Impact Factor: 2.454)
 35. Gupta, R., Sharma, M., & **Malik, R.*** Cognition Enhancers: A Review. (2015). *Journal of Medical and Pharmaceutical Innovation*, 2(7), 1-13.
 36. **Malik, R.*** (2015). Design of PAP (248-286) aggregation inhibitors as potential anti-HIV agents using molecular docking based virtual screening. *Asian Journal of Pharmaceutics*, 1-25. (Impact Factor: 0.460)
 37. **Malik, R.***, Gupta, R., Shukla, V., & Sharma, M. (2014). Synthesis, characterization and Evaluation of some potent memory enhancing agents derived from *p*-cresol. *Journal of International Academic Research for multidisciplinary*, 2(7), 519-526. (Impact Factor: 2.417)
 38. Raza, K., Kumar, P., Ratan, S., **Malik, R.**, & Arora, S. (2014). Polymorphism: The Phenomenon Affecting the Performance of Drugs. *SOJ Pharmacy & Pharmaceutical Sciences*, 1(2), 1-10.
 39. Raza, K., Kumar, M., Kumar, P., **Malik, R.**, Sharma, G., Kaur, M., & Katare, O. P. (2014). Topical delivery of aceclofenac: challenges and promises of novel drug delivery systems. *BioMed Research International*, 1-11. (Impact Factor: 2.476)
 40. **Malik, R.***, Gupta, R., Krishna, A., Bunkar, D., & Sharma, M. (2014). Synthesis, Characterization and Evaluation of Selected 3-Nitrophenol Derivatives as Potential Cognition Enhancers. *International Journal of Drug Design and Discovery*, 5(2), 1318-1325.
 41. Nalwaya, R., Sahai, A., Chander, S., Sharma, M., **Malik, R.**, & Sarsodia, G. (2013). Synthesis, characterization, and pharmacological evaluation of benzothioopyran derivatives as a novel class of calcium channel blockers. *Medicinal Chemistry Research*, 22(5), 2188-2195. (Impact Factor: 1.27)
 42. Piplani, P., **Malik, R.**, Kaur, B., & Kaplish, A. (2012). Synthesis and pharmacological evaluation of some new naphthol derived aryloxy derivatives as cognition enhancers. *Medicinal Chemistry Research*, 21(8), 1771-1779. (Impact Factor: 1.058)
 43. Gurumoorthy, A., Gopalsamy, V., Piplani, P., & **Malik, R.** (2011). *N*-[4-(2-Morpholinoethoxy) phenyl] acetamide monohydrate. *Acta Crystallographica Section E: Structure Reports Online*, 67(2), o262-o262. (Impact Factor: 0.45)
 44. Daniel, V., Shrivastva, K., Kunwar, P. S., **Malik, R.**, & Barve, A. (2009). Synthesis and anti-amnesic activity of some new 2-naphthoxy derivatives. *Journal of Global Pharma Technology*, 1(1), 45-50.
 45. **Malik, R.**, Sangwan, A., Saihgal, R., Paul Jindal, D., & Piplani, P. (2007). Towards better brain management: nootropics. *Current medicinal chemistry*, 14(2), 123-131. (Impact factor: 4.94)
 46. Sundar, T. V., Parthasarathi, V., Lang, H., **Malik, R.**, & Piplani, P. (2006). *N*-[4-(Morpholinocarbonylmethoxy) phenyl] acetamide monohydrate: a potential anti-amnesic agent. *Acta Crystallographica Section E: Structure Reports Online*, 62(5), 01874-01876. (Impact Factor: 0.45)

47. Sundar, T. V., Parthasarathi, V., Lang, H., **Malik, R.**, & Piplani, P. (2006). 2-[4-(Acetamido) phenoxy]-*N, N*-dimethylacetamide: a potential anti-amnesic agent. *Acta Crystallographica Section E: Structure Reports Online*, 62(2), 0443-0445. (Impact Factor: 0.45)
48. Sundar, T. V., Parthasarathi, V., Walfort, B., Lang, H., Piplani, P., & **Malik, R.** (2005). *N*-[4-(Pyrrolidin-1-ylcarbonylmethoxy) phenyl] acetamide. *Acta Crystallographica Section E: Structure Reports Online*, 61(9), 02868-02870. (Impact Factor: 0.45)
49. Piplani, P., Jindal, D. P., Gupta, P., **Malik, R.**, Tiwari, H., & Kulkarni, S. K. (2004). 2-Naphthyloxy derivatives of *N, N*-substituted acetamides: synthesis and pharmacological evaluation. *Indian Journal of Pharmaceutical Sciences*, 66(5), 653-658. (Impact Factor: 0.296)
50. Thamotharan, S., Parthasarathi, V., **Malik, R.**, Jindal, D. P., Piplani, P., & Linden, A. (2003). 2-(2-Naphthyloxy) acetate derivatives. I. A new class of anti-amnesic agents. *Acta Crystallographica Section C: Crystal Structure Communications*, 59(8), 0422-0425. (Impact Factor: 0.45)
51. Thamotharan, S., Parthasarathi, V., **Malik, R.**, Jindal, D. P., Piplani, P., & Linden, A. (2003). 1-[2-(4-Nitrophenoxy) acetyl] pyrrolidin-2-one: an anti-amnesic agent. *Acta Crystallographica Section C: Crystal Structure Communications*, 59(9), 0514-0515. (Impact Factor: 0.45)

Conferences/Symposium:

Presentations:

Resource Person/Chairmanship at National or International Conference/ Seminar/ Workshop or Symposia/ ROTR/ CME etc.

1. Oral Presentation on topic, "Recognition of the crucial features of Antiepileptic agents targeting the chemical domain of KCNQ2 channel using molecular modeling techniques", at World Congress on Drug Discovery & Development- 2016 held at BioGenesis Health Cluster, IISc Bangalore on November 23-25, 2016.
2. Oral Presentation on topic, "Design of PAP (248-286) aggregation inhibitors as potential anti HIV agents using molecular docking based virtual screening", at an International Seminar on latest Developments in Drug Discovery and Development and their economic utilization as per global perspective, held at B R Nahata College of Pharmacy, Mandsaur, M.P. on September 25-27, 2014.
3. Invited lecture entitled "Proton-Proton Coupling in NMR", at AICTE sponsored Faculty Development Programme held at BN College of Pharmacy, Udaipur on September 16-28, 2013.
4. Oral Presentation on topic, "Design, synthesis and nootropic activity of some aryloxy derivatives" at 2012 National Conference on Emerging Trends in Biotechnology and Pharmaceutical Research at Mangalaytan University, Aligarh, U.P. held on February 18-19, 2012.
5. Oral presentation on topic, "New Chemical Entities (NCEs) with memory enhancing potential", at 7th Annual Congress of IDDST 2009 at Shanghai, China held on October 22-25, 2009.
6. Oral presentation on topic, "Discovery of New Chemical Entities (NCEs) with memory enhancing potential", Section 3-2-1: Drug Discovery Targeting Alzheimer's Disease at 8th Annual Congress of IDDST 2010 at Beijing, China held on October 23-26, 2010.
7. Judge for Poster Presentation at 11th Chandigarh Science Congress, CHASCON 2017 organized by CRIKC on March 9-11, 2

Posters:

1. Pakhuri Mehta, **Ruchi Malik**. “Probing Voltage Sensing Domain of KCNQ2 Channel Underlying Treatment of Epilepsy in Neonates: A Comparative Study Using Pharmacophore and Homology Model Guided Screening”.2017 American Association of Pharmaceutical Sciences Annual Meeting And Exposition, November 12-15, 2017 at San Diego, California, USA.
2. Jyoti Yadav, **Ruchi Malik**, Manish Sharma. “Design and synthesis of novel GABA_A Receptor Antagonists.” National Conference on Impact of Molecular Biology on Drug Discovery and Development: Promises and Challenges February 17-18, 2015, Department of Pharmacy, Central University of Rajasthan, Bandarsindri, Ajmer. Abstract Pg 15.
3. Shubham Srivastava, VirendraNath, **Ruchi Malik**, Manish Sharma. “Proteasome Inhibitors: Preparing new soldiers to combat tuberculosis.” National Conference on Impact of Molecular Biology on Drug Discovery and Development: Promises and Challenges February 17-18, 2015, Department of Pharmacy, Central University of Rajasthan, Bandarsindri, Ajmer. Abstract Pg 24.
4. AnkitaShringi, ChetnaBaregama, **Ruchi Malik**, Manish Sharma. “Erlotinib derivatives to combat T790M resistance of EGFR.” National Conference on Impact of Molecular Biology on Drug Discovery and Development: Promises and Challenges February 17-18, 2015, Department of Pharmacy, Central University of Rajasthan, Bandarsindri, Ajmer. Abstract Pg 29.
5. Vishnu Priya, AnkitaShringi, **Ruchi Malik**, Manish Sharma. “Combating EGFR mutation: An *in-silico* study.” National Conference on Impact of Molecular Biology on Drug Discovery and Development: Promises and Challenges February 17-18, 2015, Department of Pharmacy, Central University of Rajasthan, Bandarsindri, Ajmer. Abstract Pg 31.
6. AkhleshKumari, **Ruchi Malik**, Priti Sharma, Manish Sharma. “Design of multi targeted ligand to combat Alzheimer’s disease.” National Conference on Impact of Molecular Biology on Drug Discovery and Development: Promises and Challenges February 17-18, 2015, Department of Pharmacy, Central University of Rajasthan, Bandarsindri, Ajmer. Abstract Pg 32.
7. DevendraBunkar, **Ruchi Malik**, Jaykant Yadav, Manish Sharma. “Design and *in-silico* ADMET studies of novel PAP₂₄₈₋₂₈₆ aggregation inhibitors as potential anti-HIV agents.” National Conference on Impact of Molecular Biology on Drug Discovery and Development: Promises and Challenges February 17-18, 2015, Department of Pharmacy, Central University of Rajasthan, Bandarsindri, Ajmer. Abstract Pg 37.
8. AnkitaShringi, ChetnaBaregama, **Ruchi Malik**, Manish Sharma “Design of a newer mutation resistant EGFR inhibitor as anticancer agent”, International Symposium on Recent Advances in Medicinal Chemistry, September 8-10 2014, NIPER, Mohali, INDIA.
9. Bharat Dhaked, Mohit Jhalani, **Ruchi Malik**, Manish Sharma “4H-Chromen-4-one derivative: An anticancer agent with telomerase inhibition potential”, International Symposium on Recent Advances in Medicinal Chemistry, September 8-10 2014, NIPER, Mohali, INDIA.
10. DevendraBunkar, Richa Gupta, Virendra Shukla, Manish Sharma, Kaisar Raza, Pramod Kumar, **Ruchi Malik** “N,N-dialkyl-3-(3-tolyloxy)propane-1-amine compounds: A new class of memory enhancers” International Symposium on Recent Advances in Medicinal Chemistry, September 8-10 2014, NIPER, Mohali, INDIA
11. Rajkumarinalwaya, Gaurav Sarsodia, **Ruchi Malik**, Manish Sharma, Sunil Yadav. “Synthesis, Characterization and Pharmacological Evaluation of Benzothiopyran derivatives as a Novel Class of Calcium Channel Blockers.” APTICONG 2011.

12. SomduttMujwar,**Ruchi Malik**, Manish Sharma, Virtual screening of large chemical libraries for discovery of newer HINI swine influenza-A viral neuraminidase inhibitor, To be presented in APTI-16th Annual National Convention, 2011, October 7-9, I.S.F. College of Pharmacy, Moga (Accepted Manuscript).15/09/2011.
13. Priya Bhandari, NeelamQuazi, **Ruchi Malik** and Manish Sharma, “Comparative QSAR studies on some antimalarial agents”, Presented in 61st Indian Pharmaceutical Congress, 11-13 December, 2009, Ahmedabad, India, Abstract No. B-4.
14. LokeshKhushwah, Bhavi Gaur, **Ruchi Malik** and Manish Sharma, “Comparative QSAR study on some Adenosine A_{2A} Receptor antagonists,” Presented in 61st Indian Pharmaceutical Congress, 11-13 December, 2009, Ahmedabad, India, Abstract No. B-11.
15. VikasPatidar, Laxmi Aggarwal, Manish Sharma and **Ruchi Malik**, “Synthesis and study of some alkoxyphenylacetamide derivatives as potential memory enhancing agents”, Presented in 61st Indian Pharmaceutical Congress, 11-13 December, 2009, Ahmedabad, India, Abstract No. B-343.
16. Jitendra Surya, Laxmi Aggarwal, Manish Sharma and **Ruchi Malik**, “ Design, Synthesis and Pharmacological evaluation of *N*-(3-hydroxyphenyl)acetamid derivatives as potential memory enhancing agents,” Presented in 61st Indian Pharmaceutical Congress, 11-13th December, 2009, Ahmedabad, India, Abstract No. B-336.
17. **R. Malik**, B. Sharma, R.Sandhir, S.K. Kulkarni, P. Piplani, “3,4,5-Trimethoxy-1-[4-(2-dialkylaminoethoxy)phenylcarboxamido] benzene compounds: A new class of memory enhancers with acetylcholinesterase inhibiting profile”, 2009 American Association Of Pharmaceutical Sciences Annual Meeting And Exposition, November 08-12, 2009 Los Angeles, California, USA, Abstract ID. AM-09-02922
18. **R. Malik**, M. Sharma, A. Patel. Comparative QSAR analysis of some cytisine, α 3 β 4 and α 4 β 2 substitute selective nicotinic acetylcholine receptors agonists. Research presentation at 2009 AAPS Annual Meeting and Exposition 8/11/2009-12/11/2009 at Los Angeles, USA.
19. **Ruchi Malik**, NeelimaUniyal, and Manish Sharma, “Quantifying the charge transfer phenomenon by molar refractivity in binding of 4-quinolinyl and benzenamine derivatives as antimalarials” 1st CDRI-NIPER(RBL) symposium on Medicinal chemistry and Pharmaceutical Sciences, Lucknow, 24-26 March, 2009. PP-53. **First prize for best poster presentation in Medicinal Chemistry category.**
20. **Ruchi Malik**, RambabuTripathi, and Manish Sharma, “Understanding allosteric modulation in PPAR γ receptors by comparative QSAR analysis. 1st CDRI-NIPER(RBL) symposium on Medicinal chemistry and Pharmaceutical Sciences, Lucknow, 24-26 March, 2009. PP-63
21. Abhishek Patel, Manish Sharma and**Ruchi Malik** “Comparative QSAR analysis of some nicotinic acetylcholine receptor agonists” 1st CDRI-NIPER(RBL) symposium on Medicinal Chemistry and Pharmaceutical Sciences, Lucknow, 24-26 March,2009. PP-113
22. Laxmi Agarwal, Richa Gupta, Manish Sharma and**Ruchi Malik** “Memory enhancing capacity of small molecules derived from 3-(3-chloropropoxy) benzenamines.” 1st CDRI-NIPER(RBL) symposium on Medicinal Chemistry and Pharmaceutical Sciences, Lucknow, 24-26 March,2009.PP-64.
23. Rachit Raj, Rajesh Middha, Manish Sharma and **Ruchi Malik** “Quality Control protocol development, characterization and biological evaluation of herbal formulation DIA-NOTM. 20th

International Symposium on Pharmaceutical and Biomedical Analysis. PBA 2009, Agra, India, March 1-4,2009.

24. Laxmi Aggarwal, Manish Sharma, Vivek Daniel and **Ruchi Malik**, “Nootropic agents derived from p-amino phenol”,60th Indian Pharmaceutical Congress, New Delhi, INDIA, 12-14December, 2008, Abstract No.MC-227.
25. **Ruchi Malik**, AnkurMaithil and Poonam Piplani“ N-(Hydroxyphenyl)acetamide derivatives as potential anti-amnesic agents: Synthesis and pharmacological evaluation”,60th Indian Pharmaceutical Congress, New Delhi, INDIA, 12-14December, 2008, Abstract No. MC-206.
26. **Ruchi M**, Richa G, Manish S, Poonam P, “Bioactive molecules derived from p-nitro phenol”, on 16-20 November 2008 at National Institute of Pharmaceutical Education and Research, Mohali, Punjab, India.
27. Manish M, Aditi K, **Ruchi M**, “Flavonoids as lead towards novel Gaba A receptor ligands”, International Conference on new developments in drug discovery from natural products and traditional medicines scheduled to be held on 16-20 November 2008 at National Institute of Pharmaceutical Education and Research, Mohali, Punjab, India.
28. **Ruchi Malik**, Poonam Piplani, RajatSandhir, Carla Ghelardini, V.ParthasarathiandS.K.Kulkarni “Amazing memory enhancing potential of some recently discovered small molecules”, 2007 American Association of Pharmaceutical Sciences Annual Meeting And Exposition, November 11-15, 2007 San Diego, California, USA, Abstract ID. AM-07-03796 (**Received International Travel Grant Award From DST for this presentation**)
29. **Ruchi Malik**, Manish Sharma. “Waste management: Treatment and disposal of hazardous waste”, Second National seminar & Intellectual Property fair on Green Pharmacy, BRNSS-CRC, Mandsaur, M.P, on October 28-29, 2006.
30. **Ruchi Malik**, Manish Sharma. “Herb drug interactions”, Second National seminar & Intellectual Property fair on Green Pharmacy, BRNSS-CRC, Mandsaur, M.P, on October 28-29, 2006.
31. **Ruchi Malik**, Dharam Paul Jindal and Poonam Piplani “Design, synthesis and pharmacological evaluation of some paracetamol derivatives as potential nootropic agents”, International Symposium on Recent advances in Drug Design and Delivery Systems, 26-27thFebruary, 2005, BITS, Pilani, Rajasthan, INDIA Abstract No. P₀₆
32. R.Malik, D. P. Jindal, Piplani, “Synthesis and pharmacological evaluation of some paracetamol derivatives as potential cognitive enhancers”,56thIndian Pharmaceutical Congress, Kolkata, INDIA, December 3-5, 2004, Abstract No.BP₁₆.
33. R. Malik M. Sharma, D. Kumar, P. Jain, G. Narang, S.Guleria, A. Nanda, “Safety in Pharmaceutical Chemistry Laboratory”, 56thIndian Pharmaceutical Congress, Kolkata, INDIA, December 3-5, 2004, Abstract No. JP₁₃
34. R. Malik, P. Gupta, H. Tiwari, D. P. Jindal, P. Piplani, S. K. Kulkarni, “Synthesis and pharmacological evaluation of 2-naphthoxy derivatives as potential anti-amnesic agents”, 55thIndian Pharmaceutical Congress, Chennai, India, December 19-21, 2003, Abstract No. BP₅₀.

1. 017.

Professional Memberships:

1. Life member of Indian Pharmacy graduate's association (IPGA).
2. Member of Indian Pharmaceutical Association (IPA).

Research Guidance:

1. Ph.D. Scholars: Degree awarded: 03
Current supervision: 04
2. M. Pharm. students: Degree awarded: 33
Current Supervision: 03

Academic Staff College Orientation/Refresher Course/Training attended

1. UGC-Sponsored Refresher Course sponsored by University Grant Commission at UGC-HRDC, Panjab University, Chandigarh held on May 16, 2017 to June 5, 2017.
2. UGC-Sponsored orientation programme, sponsored by University Grant Commission at UGC-Academic staff college, Jai Narain Vyas University, Jodhpur held on December 16, 2013 to January 10, 2014.
3. Workshop on Advanced Techniques in Protein Design and Engineering at CPSDE, IISER Mohali held on March 15-19, 2016.
4. Refresher Course on Advances in Chemical Sciences and Sustainable Development, sponsored by Science Academies, at Central University of Rajasthan held on January 12–25, 2015.
5. One day Orientation Workshop on Best Teaching Practices organized by Central University of Rajasthan.
6. UGC Summer Training Programme on Emerging Trends in Drug Discovery and Development at UGC Networking Centre for Training in Pharmaceutical Sciences, University Institute of Pharmaceutical Sciences, Panjab University, held on May 31-June 12, 2010.
7. International workshop on Drug Design held on 24th-25th February, 2005 at BITS, Pilani, Rajasthan, INDIA in collaboration with Molecular Design and Information Technology Centre (MDIT), University of Toronto, Ontario, Canada.
8. AICTE Sponsored Quality Improvement Programme on Analytical Techniques at College of Pharmacy presently DIPSAR, PushpVihar, New Delhi held on October 29-November 02, 2001.
9. Trainee in Research and Development Center, Quality control, Quality assurance, Stores and Production Department of Dr. Morepan Laboratories, Parwanoo, India held on August 1999-September 1999.

Other Details

Registered as Pharmacist :Regn. No. CH0612606 (Chandigarh, U.T.)

Administrative Contributions:

School Board Member of Central University of Rajasthan
Director BRNCOP in Absentia

Associate Dean (BRNCOP and Department of Pharmacy, Lovely Professional University)
Incharge P.G. and Exam Superintendent
NAAC and NBA Co-ordinator (BRNCOP)
Inspection Committee member for NBA (BRNSS)
CUCET-2016 Observer on May 21-22, 2016 at Central University, Punjab
BOS Member of Bahra University and Lachoo Memorial College of Science & Technology, Jodhpur
External Examiner of Universities like Panjab University, Rajasthan University of Health Sciences and
Lachoo Memorial College of Science & Technology, Jodhpur
Warden for 6 months(CU Rajasthan)
Member of SPARSH Committee, Central University of Rajasthan

Research Contributions:

Chief Co-ordinator R &D (BRNSS)
Head R&D (BRNCOP)
Editorial Board of International Journal of Pharmaceutical and Biological Archives
Reviewer of Journals “ArzneimForshung /Drug Research, Journal of Molecular Structure, Medicinal
Chemistry Research, Journal of Biomolecular Structure and Dynamics etc.”
Advisor to EdupharmConsultancy Services
Five Conferences/Workshop/Seminar etc. organized such as School and Workshop on
Electroanalytical Techniques (SWET-2013), National conference on “Impact of Molecular Biology on
Drug Discovery and Development: Promises and Challenges-2015” and 2015 Science Academies
refresher course on advances in chemical sciences and sustainable development and Workshop on
Intellectual Property Rights and Awareness-2008.
Seven Industrial projects (as Group Leader)
2017 and 2018 American Association Pharmaceutical Sciences Meeting Abstract Screener

Personal Details:

Date of Birth :	May 23, 1976
Age :	41 years 11 months
Birth Place :	Chandigarh
Father's Name :	Mr. R.S. Malik
Mother's Name :	Mrs.Bimla Malik
Sex :	Female
Nationality :	Indian
Category :	General
Religion :	Hindu
Marital Status :	Married
Spouse Name :	Mr.Manish Sharma
Languages Known :	English, Hindi and Punjabi

Proficiency in Computing:Schrodinger, MS-Word, Excel, Power Point, Access, Outlook, SPSS, MatLab, e-View.

Professional References:

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I assure that the above particulars given by me are true to the best of my knowledge and belief.

(Ruchi Malik)