NAME	**Dr. Ruchi Jakhmola Mani**	
DESIGNATION	Assistant Professor-II	
EMAIL ID	rjakhmola@amity.edu	
CONTACT NUMBER	0120-4392410	
RESEARCH INTERESTS	Bioinformatics, Neurology, Diabetes, Cancer, Pharmaceutical Biotechnology, Data Science, Healthcare	

EDUCATIONAL QUALIFICATIONS:

Name of College / University	**Degree**	**Year**
Amity University, Noida, UP	PhD Biotechnology	2021
Panjab University, Chandigarh	M.Sc. Bioinformatics	2008
Kurukshetra University, Kurukshetra	B.Sc. Bioinformatics	2006

Title of Ph.D. thesis: EFFICACY OF RIVASTIGMINE AND QUERCETIN IN COMBINATION AND CONJUGATE FORM FOR TREATMENT OF ALZHEIMER'S DISEASE AND ITS MODELING AND DOCKING STUDIES.

EXPERIENCE (in chronological order):

Designation	**Type of post held (teaching/ research)**	**Name of the Institute**	**Year (From – To)**
Assistant Professor-II	Research and Teaching	Centre for Medical Biotechnology, Amity Institute of Biotechnology, Amity University	2016- ongoing
Assistant Professor-I	Research and Teaching	Centre for Medical Biotechnology, Amity Institute of Biotechnology, Amity University	2012- 2016
Lecturer	Teaching	Amity Institute of Biotechnology, Amity University	2010- 2012
Adhoc Lecturer	Teaching	Amity Institute of Biotechnology, Amity University	2008- 2010

No. of Ph.D. students supervised	NA
No. of Post-Doc	NA
No. of M.Tech. Students supervised:	46
No. of B.Tech. Students supervised:	73
PUBLICATIONS ***(17)***	1. Agarwal, Kritie, Deepshikha Pande Katare, and **Ruchi Jakhmola-Mani**. "Foresee novel targets for Alzheimer's disease by investigating repurposed drugs." CNS & Neurological Disorders-Drug Targets (Formerly Current Drug Targets-CNS & Neurological Disorders) (2023). 2. Dogra, Nitu, **Ruchi Jakhmola Mani**, and Deepshikha Pande Katare. "The gut-brain axis: Two ways signaling in Parkinson's disease." Cellular and Molecular Neurobiology 42, no. 2 (2022): 315-332. 3. Dogra, Nitu, **Ruchi Jakhmola Mani**, and Deepshikha Pande Katare. "Crosstalk between Inflammatory Bowel Disease Proteins and Neuroinflammatory Proteins for

	Understanding Involvement of Gut-Brain Axis in Parkinson's Disease and Identified Drug Receptors: In-Silico Approach" Research Journal of Biotechnology (2022): 196-208 4. **Jakhmola-Mani, Ruchi,** Anam Islam, and Deepshikha P. Katare. "Liver-Brain Axis in Sporadic Alzheimer's Disease: Role of Ten Signature Genes in a Mouse Model." CNS & Neurological Disorders-Drug Targets (Formerly Current Drug Targets-CNS & Neurological Disorders) 20.9 (2021): 871-885. 5. Dogra, Nitu, **Ruchi Jakhmola Mani**, and Deepshikha Pande Katare. "The gut-brain axis: Two ways signaling in Parkinson's disease." Cellular and Molecular Neurobiology (2021): 1-18. 6. **Jakhmola Mani, Ruchi**, Nikita Sehgal, Nitu Dogra, Shikha Saxena, and Deepshikha Pande Katare. "Deciphering underlying mechanism of Sars-CoV-2 infection in humans and revealing the therapeutic potential of bioactive constituents from Nigella sativa to combat COVID19: in-silico study." Journal of Biomolecular Structure and Dynamics (2020): 1-13. 7. Dogra, Nitu, **Ruchi J. Mani**, and Deepshikha Pande Katare. "Protein Interaction Studies for Understanding the Tremor Pathway in Parkinson's Disease." CNS & Neurological Disorders-Drug Targets (Formerly Current Drug Targets-CNS & Neurological Disorders) 19, no. 10 (2020): 780-790. 8. **Mani-Jakhmola Ruchi**, Nagpal, Dheeraj, Jain Anisha, Chandra Subhendu and Katare P. Deepshikha. "GOSSYPIN ANALOGUES PROMISE GOOD RANGE OF DRUGS FOR THE TREATMENT OF EPILEPSY". International Journal of Biology, Pharmacy and Allied Sciences (2020): 9(2): 175-183 9. Asad, Mohammad, Saima Wajid, Deepshikha P. Katare, **Ruchi Jakhmola Mani**, and Swatantra Kumar Jain. "Differential Expression of TOM34, AL1A1, PADI2 and KLRBA in NNK Induced Lung Cancer in Wistar Rats and their Implications." Current cancer drug targets 19, no. 11 (2019): 919-929. 10. **Mani, Ruchi Jakhmola**, Khyati Mittal, and Deepshikha Pande Katare. "Protective Effects of Quercetin in Zebrafish Model of Alzheimer's Disease." Asian Journal of Pharmaceutics 12, no. 2 (2018): S660. 11. P. Katare, Deepshikha, Shabnam Malik, **Ruchi J. Mani**, Maryam Ranjpour, and Swatantra K. Jain. "Novel mutations in transthyretin gene associated with hepatocellular carcinoma." Molecular carcinogenesis 57, no. 1 (2018): 70-77. 12. Mishra, Savita, Khyati Mittal, Sandhya Hora, **Ruchi Jakhmola Mani**, and Deepshikha Pande Katare. "TARGETING INFLAMMATORY PROTEINS USING IMMUNOMODULATOR FOR REGULATION OF HEPATOCELLULAR CARCINOMA

	MICROENVIRONMENT." INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH 8, no. 11 (2017): 4750-4757. 13. Chaturvedi, Archana, Ashok Kumar Tiwari, and **Ruchi Jakhmola Mani**. "Traditional practices of using various medicinal plants during postnatal care in Chitrakoot district." (2017). 14. Mittal, Khyati, **Ruchi Jakhmola Mani**, and Deepshikha Pande Katare. "Type 3 diabetes: cross talk between differentially regulated proteins of type 2 diabetes mellitus and Alzheimer's disease." Scientific reports 6 (2016): 25589. 15. Kalueff, Allan V., David J. Echevarria, Sumit Homechaudhuri, Adam Michael Stewart, Adam D. Collier, Aleksandra A. Kaluyeva, Shaomin Li et al. Katare P. Deepshikha, **Mani J. Ruchi** et. al"Zebrafish neurobehavioral phenomics for aquatic neuropharmacology and toxicology research." Aquatic Toxicology 170 (2016): 297-309. 16. **Mani, Ruchi Jakhmola**, Khyati Mittal, Savita Mishra, Harsha Kharkwal, Saif Ahmad, and Deepshikha Pande Katare. "In Silico Approach to Evaluate the Efficacy of Dietary Flavonoids and Their Role in Alzheimer's Disease"(2014). 17. Saxena, Ankur, and **Ruchi Jakhmola**. "Securing confidential data using Java/J2EE." International Journal of Science technology & Management 2, no. 3 (2011): 54-59.
BOOK/BOOK CHAPTER (7)	1. ALARM TEST: A NOVEL CHEMICAL FREE BEHAVIOUR ASSESMENT TOOL FOR ZEBRAFISH Ruchi Jakhmola-Mani, Khyati Mittal and Deepshikha Pande Katare, (**Zebrafish Research**) IntechOpen. (2020) 2. Type 2 Diabetes Mellitus: A risk factor for Alzheimer's disease **(Alzheimer's Disease and Treatment**) (2020) ISBN: 978-93-87500-60-0. 3. Mani, Ruchi Jakhmola, and Deepshikha Pande Katare. "Molecular Mechanisms behind Initiation of Focal Seizure in Temporal Lobe Epilepsy: Computational Study." In **Neurodegenerative Diseases-Molecular Mechanisms and Current Therapeutic Approaches**. IntechOpen, 2020. 4. Dogra, Nitu, Savita Mishra, Ruchi Jakhmola Mani, Vidhu Aeri, and Deepshikha Pande Katare. "Pharmacodynamic biomarker for Hepatocellular carcinoma C: Model-based evaluation for pharmacokinetic–pharmacodynamic responses of drug." In **Translational Biotechnology**, pp. 311-325. Academic Press, 2021. 5. Sehgal, Nikita, Ruchi Jakhmola Mani, Nitu Dogra, and Deepshikha Pande Katare. "Biosensor-based early diagnosis of hepatic cancer." In **Biosensor Based Advanced Cancer Diagnostics**, pp. 97-111. Academic Press, 2022. 6. Mehta, Vaishali, Deepshikha Pande Katare, Potshangbam

	Angamba Meetei, and **Ruchi Jakhmola Mani**. "Intellection of biological life in current era." Artificial Intelligence and Computational Dynamics for Biomedical Research 8 (2022): 53. 7. Sharma, Mukund, Deepshikha Pande Katare, Ritu Chauhan, Shikha Rani, and **Ruchi Jakhmola Mani**. "Artificial intelligence: the future of neuroscience." Artificial Intelligence and Computational Dynamics for Biomedical Research 8 (2022): 97.
PATENTS ***(4)*** ***Granted:1*** ***Published:2***	1. Rivastigmine and Quercetin conjugate form for treatment of Alzheimer's disease. 2414/DEL/2013. 2. Tacrine and Quercetin conjugate form for treatment of Alzheimer's disease. 2897/DEL/2013. **GRANTED** 3. Filomicelles of combination drugs for the treatment of Brain Diabetes. E-101/8929/2017-DEL. **PUBLISHED** 4. Molecular interactions of hepatocellular carcinoma specific proteins in transgenic and chemically induced animal model. 201811045271A. **PUBLISHED**
RESEARCH PROJECTS	***NA***
AWARDS & HONOURS/ DISTINCTIONS	• Received **Best Young Researcher Award** for presenting my research work in an international conference organized by Reignite Innovative Conferences and Committee Members of Global Biotech 2020. • **Invited Podcast by Bio without Boundaries on "Bioinformatics"** https://anchor.fm/bio-without-boundaries/episodes/Bioinformatics-with-Dr--Ruchi-Mani-e15jevb • Our **Research was picked up by a well-known health magazine**: Everyday Health (2016). Author: Beth W. Orenstein, Reviewed by: Pat F. Bass, III, MD, MPH The Diabetes-Alzheimer's Link: What You Need to Know. http://www.everydayhealth.com/hs/type-2-diabetes-care/diabetes-alzheimers-link/ • Our **Research got highlighted in QS Asia. (2016) Type 3 Diabetes: A new health Crisis** Issue No. 23 (Nov 2016-Jan 2017)/ Page No. 18-19. http://www.qswownews.com/wpcontent/uploads/2017/pdf/Issue23.pdf
MEMBERSHIP with Professional/ Academic bodies	Lifetime member of Alzheimer's and Related Disorders Society of India. Membership ID: NO-352