


## CURRICULUM VITAE




**Dr. Shubham Upadhayay**  
**Assistant Professor**  
**Department of Pharmacy,**  
**Central University of**  
**Rajasthan, Kishangarh,**  
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### Personal Data

**Full Name:** Shubham Upadhayay

**Date of Birth:** 21/01/1995

**Father's Name:** Satish Upadhayay

**Marital Status:** Unmarried

**Nationality:** Indian

**Hobbies:** Book Reading; Writing  
and listening to music

**Language:** English & Hindi




### Carrier Objectives

*Motivated Ph.D. graduate in Pharmacology with a strong passion for understanding drug mechanisms and developing novel therapeutic strategies. Committed to conducting innovative research in molecular pharmacology and neuropharmacology. Seeking a research position to leverage expertise in drug discovery, preclinical investigations, and translational pharmacology to contribute to advancements in biomedical science and improve healthcare outcomes.*

### Academic Record

| Course                  | Duration                    | Percentage/<br>CGPA | Board/University                                                                                        |
|-------------------------|-----------------------------|---------------------|---------------------------------------------------------------------------------------------------------|
| Ph.D.<br>Pharmacology   | October/2021-<br>May/2025   | 7.74/10             | Central University<br>of Punjab                                                                         |
| M.Pharm<br>Pharmacology | June/2019 –<br>July/2021    | 8.89/10             | Indo Soviet<br>Friendship college<br>of Pharmacy<br>(Affiliated to<br>I.K.G.P.T.U<br>Jalandhar, Punjab) |
| B.Pharm                 | August/2014<br>to July 2018 | 7.11/10             | Mahakal institute<br>of pharmaceutical<br>studies (Affiliated<br>to<br>R.G.P.V, Bhopal)<br>(M.P)        |

### Research Interest

-  Pharmacology & Toxicology
-  Neuroscience
-  Neurodegenerative and Movement Disorders

## Research Skills

**Animal Handling and Care:** Experienced in the ethical and humane handling of animals (**Rat, Mice, & Zebrafish**), including administration of substances (oral, intravenous, intraperitoneal, subcutaneous, stereotaxic injection), monitoring health, and ensuring compliance with regulatory guidelines.

**Animal Model Selection:** Proficient in choosing appropriate animal models to address specific pharmacological questions, considering ethical considerations and relevance to human physiology.

**Experimental Protocol Development:** Skilled in designing and implementing detailed experimental protocols for in vivo studies, ensuring consistency and reproducibility to investigate drug mechanisms and molecular pathways.

**Behavioral Assessments:** Competent in conducting and analyzing behavioral experiments to assess the impact of pharmacological interventions on animal behavior, cognition, and neurological function.

**Laboratory Techniques:** Skilled in molecular biology techniques, including **RT-PCR**, Western blotting, and Histopathology and Immunohistopathology using **Confocal Microscopic**, ensuring precise data acquisition.

**Cell Culture:** Experienced in maintaining cell lines (SHSY5Y, MCF-7, & A549), conducting assays, and exploring cellular responses to pharmacological interventions.

**Data Analysis:** Proficient in statistical analysis using tools like SPSS & GraphPad Prism software, interpreting complex data sets, and drawing meaningful conclusions.

**Literature Review:** Adept at comprehensive literature reviews, staying current with advancements, and integrating findings into research projects.

**Scientific Writing:** Strong written communication skills, demonstrated through publications, grant applications, and conference abstracts.

**Collaboration:** Effective team player, collaborating across disciplines to enhance research outcomes and contribute to a holistic understanding of pharmacological phenomena

## Animal Model Validated & Developed

- Haloperidol-Induced Tardive Dyskinesia model in Adult Zebrafish
- 3-Nitropropionic acid (3-NP) induced Huntington's disease in adult zebrafish.
- Mercury-Induced Amyotrophic Lateral Sclerosis in Adult Wistar Rats
- Ethidium Bromide Induced Multiple Sclerosis Model in Adult Wistar Rats

## Research Articles

- **Upadhayay, S.,** Soni, D., & Kumar, P. (2025). Raloxifene and Fulvestrant Exert Antioxidant, Anti-Inflammatory, and Antiapoptotic Action Against Haloperidol-Induced Tardive Dyskinesia in Rats via Activation of the GPER1/PI3k/Akt/Nrf2/HO-1 Signaling Pathways. *Journal of biochemical and molecular toxicology*, 39(8), e70413.
- Jangid, K., Devi, B., Kumar, N., **Upadhayay, S.,** Kumar, V., Thareja, S., & Kumar, V. (2025). ML-based prediction to experimental validation: Development of dihydroquinazoline based multi-potent ligands as anti-Alzheimer's agents. *Computers in Biology and Medicine*, 196, 110762.
- **Upadhayay, S.,** Uttam, V., & Kumar, P. (2025). G-Protein-Coupled Estrogen Receptor 1 (GPER1) Activation Mitigates Haloperidol-Induced Neurotoxicity in SHSY-5Y Cells and Improves Motor Functions in Adult Zebrafish. *Neurochemical research*, 50(2), 119.
- Soni, D., Garg, Y., **Upadhyay, S.,** Bhatia, A., Basir, B., Singh, S. K., ... & Kumar, P. (2025). Auranofin-loaded chitosan-lipid hybrid nanoparticle protects against the in-vitro/in-vivo model of Parkinson's disease via modulation of GSK-3 $\beta$ /Nrf2/HO-1 signaling. *European Journal of Pharmacology*, 177523.
- Temgire, P., Arthur, R., **Upadhayay, S.,** Arora, S., Kapatia, G., Kumar, R., ... & Kumar, P. (2025). Elucidating the neuroprotective potential of arbutin in 3-NPA induced HD-like pathology: Insights from in silico, in vitro, and in vivo models. *Behavioural Brain Research*, 483, 115475.
- Aqeel, M., **Upadhayay, S.,** Devi, R., Jangid, K., Kumar, V., & Kumar, P. (2025). Glycyrrhizic Acid Mitigates Haloperidol-Induced Neurotoxicity in SHSY-5Y Cells and Rats Via Activation of PI3k/Akt/Nrf2 Pathways. *Neurochemical Research*, 50(1), 1-19.
- Kumar, N., Jangid, K., Kumar, V., Yadav, R. P., Mishra, J., **Upadhayay, S.,** & Kumar, V. (2024). In vitro and in vivo investigations of chromone derivatives as potential multitarget-directed ligands: Cognitive amelioration utilizing a scopolamine-induced zebrafish model. *ACS Chemical Neuroscience*, 15(14), 2565-2585.
- Yedke, Narhari Gangaram, **Shubham Upadhayay,** Randhir Singh, Sumit Jamwal, Sheikh F. Ahmad, and Puneet Kumar. "Bacillus Calmette–Guérin Vaccine Attenuates Haloperidol-Induced TD-like Behavioral and Neurochemical Alteration in Experimental Rats." *Biomolecules* 13, no. 11 (2023): 1667.
- Gupta, Rishav, Divya Soni, **Shubham Upadhayay,** Maanvi Dhureja, and Puneet Kumar. "Impact of nescapine on halting the progression of pentylentetrazole induced kindling epilepsy in mice." *Clinical and Experimental Pharmacology and Physiology* (2023).
- **Upadhayay, Shubham,** Sidharth Mehan, Aradhana Prajapati, Pranshul Sethi, Manisha Suri, Ayat Zawawi, Majed N. Almashjary, and Shams Tabrez. "Nrf2/HO-1 Signaling Stimulation through Acetyl-11-Keto-Beta-Boswellic Acid (AKBA) Provides Neuroprotection in Ethidium Bromide-Induced Experimental Model of Multiple Sclerosis." *Genes* 13, no. 8 (2022): 1324.
- Elizabeth Minj, **Shubham Upadhayay,** Sidharth Mehan. Nrf2/HO-1 Signaling Activator Acetyl-11-keto-beta Boswellic Acid (AKBA)-Mediated Neuroprotection in Methyl Mercury-Induced Experimental Model of ALS Volume 46, Issue 6, *Neurochemical Research* (2021) <https://doi.org/10.1007/s11064-021-03366-2>

- Siddiqui, E. M., Mehan, **Shubham Upadhayay**, S., Khan, A., Halawi, M., Halawi, A. A., & Alsaffar, R. M. (2021). Neuroprotective efficacy of 4-Hydroxyisoleucine in experimentally induced intracerebral hemorrhage. Saudi Journal of Biological Sciences. <https://doi.org/10.1016/j.sjbs.2021.07.010>
- Nidhi Sharma, **Shubham Upadhayay**, Ambika Shandilya, Rakesh Sahu, Anshuman Singh, Bidisha Rajkhowa, Sidharth Mehan. Neuroprotection by solanesol against ethidium bromide-induced multiple sclerosis-like neurobehavioral, molecular, and neurochemical alterations in experimental rats, Phytomedicine Plus, Volume 1, Issue 4, 2021,100051, ISSN26670313, <https://doi.org/10.1016/j.phyplu.2021.100051>
- Singh, Anshuman, **Shubham Upadhayay**, and Sidharth Mehan. "Inhibition of c-JNK/p38MAPK signaling pathway by Apigenin prevents neurobehavioral and neurochemical defects in ethidium bromide-induced experimental model of multiple sclerosis in rats: Evidence from CSF, blood plasma and brain samples." Phytomedicine Plus 1, no. 4 (2021): 100139.

### Review Articles

- **Upadhayay, Shubham**, Divya Soni, Maanvi Dhureja, Pooja Temgire, Vishal Kumar, Richmond Arthur, and Puneet Kumar. "Role of Fibroblast Growth Factors in Neurological Disorders: Insight into Therapeutic Approaches and Molecular Mechanisms." Molecular Neurobiology (2025): 1-20.
- Soni, Divya, **Upadhayay, Shubham**, Maanvi Dhureja, Richmond Arthur, and Puneet Kumar. "Crosstalk between gut–brain axis: unveiling the mysteries of gut ROS in progression of Parkinson’s disease." Inflammopharmacology (2024): 1-21.
- **Upadhayay, Shubham**, and Puneet Kumar. "Mitochondrial targeted antioxidants as potential therapy for huntington’s disease." Pharmacological Reports (2024): 1-21.
- **Upadhayay, Shubham**, Sumit Jamwal, and Puneet Kumar. "Animal models of Huntington’s disease and their applicability to novel drug discovery and development." Expert Opinion on Drug Discovery 18.5 (2023): 527-538.
- Dhureja, Maanvi, Richmond Arthur, Divya Soni, **Shubham Upadhayay**, Pooja Temgire, and Puneet Kumar. "Calcium channelopathies in neurodegenerative disorder: an untold story of RyR and SERCA." Expert Opinion on Therapeutic Targets (2023): 1-14.
- **Upadhayay, Shubham**, Narhari Gangaram Yedke, Vikrant Rahi, Surbhi Singh, Sachin Kumar, Anchal Arora, Priyanka Chandolia et al. "An overview of the pathophysiological mechanisms of 3-nitropropionic acid (3-NPA) as a neurotoxin in a huntington's disease model and its relevance to drug discovery and development." Neurochemical Research 48, no. 6 (2023): 1631-1647.
- **Upadhayay, Shubham**, Richmond Arthur, Divya Soni, Poonam Yadav, UmaShanker Navik, Randhir Singh, Thakur Gurjeet Singh, and Puneet Kumar. "Monkeypox infection: the past, present, and future." International Immunopharmacology 113 (2022): 109382.
- **Upadhayay, Shubham**, Rishav Gupta, Surbhi Singh, Maroti Mundkar, Gursewak Singh, and Puneet Kumar. "Involvement of the G-Protein-Coupled Estrogen Receptor-1 (GPER) Signaling Pathway in Neurodegenerative Disorders: A Review." Cellular and Molecular Neurobiology (2022): 1-15.

- Singh, Surbhi, Richmond Arthur, **Shubham Upadhayay**, and Puneet Kumar. "Ferulic acid ameliorates neurodegeneration via the Nrf2/ARE signalling pathway: A Review." *Pharmacological Research-Modern Chinese Medicine* (2022): 100190.
- **Upadhayay, Shubham**, & Sidharth, Mehan. (2021). Targeting Nrf2/HO-1 anti-oxidant signaling pathway in the progression of multiple sclerosis and influences on neurological dysfunctions. *Brain Disorders*, 100019. <https://doi.org/10.1016/j.dscb.2021.100019>
- Singh, Anshuman, **Shubham Upadhayay**, and Sidharth Mehan. "Understanding Abnormal c-JNK/p38MAPK Signaling Overactivation Involved in the Progression of Multiple Sclerosis: Possible Therapeutic Targets and Impact on Neurodegenerative Diseases." *Neurotoxicity research* 39, no. 5 (2021): 1630-1650.
- Sahu, Rakesh, **Shubham Upadhayay**, and Sidharth Mehan. "Inhibition of extracellular regulated kinase (ERK)-1/2 signaling pathway in the prevention of ALS: target inhibitors and influences on neurological dysfunctions." *European Journal of Cell Biology* 100, no. 7-8 (2021): 151179.

### Book Chapters

- Mehan, Sidharth, Saloni Rahi, **Shubham Upadhayay**, and Andleeb Khan. "Polyphenols Targeting and Influencing Cellular Signaling During Progression and Treatment of Cancer." In *Polyphenols-based Nanotherapeutics for Cancer Management*, pp. 95-141. Springer, Singapore, 2021 (2021)

### Awards and Scholarships

- **Senior Research Fellowship (SRF)** awarded by Indian Council of Medical Research (ICMR), New Delhi, India
- Post Graduate Scholarship Awarded by All India Council for Technical Education (AICTE)
- **IBRO-APRC** Associate school Awardee
- **1<sup>st</sup> Prize in Oral Presentation** Award by Chitkara College of Pharmacy, Chitkara University Punjab, India
- Graduation Pharmacy Aptitude Test (**GPAT**) Qualified
- Received an International Travel Support (ITS) of **1,28,346** from the **Science & Engineering Research Board (SERB)** under the scheme of Anusandhan National Research Foundation (ANRF) to present my work entitled GPR30 agonists attenuate haloperidol-induced neurotoxicity in SH-SY5Y cells and adult zebrafish. In an International Congress of Parkinson's Disease and Movement Disorders, held at **Philadelphia, PA, USA** from September 27 – October 1, 2024.
- Received an International Travel grant of \$1,000 USD from the **International Parkinson's Movement Disorders Society** to attend the International Congress of Parkinson's Disease and Movement Disorders, September 27 – October 1, 2024, in Philadelphia, PA, USA.

- Received **800 €** from the International Brain Research Organization (IBRO) to attend the IBRO Associated School held at **National Taiwan University**, from August 18th to August 25th, Taipei, Taiwan.
- **Attended** IBRO Associated School “Towards a new understanding of neuropsychiatric disorders: from genes, brain to behavior” the Programme will be held at **National Taiwan University**, Department of Psychology, from August 18th to August 25th, Taipei, Taiwan
- Received **TNS-Best Poster Award** with a prize of 2000 THB for research work entitled “Raloxifene and Fulvestrant Provide Neuroprotection against haloperidol-induced neurotoxicity In-Vitro and In-Vivo Model through activation of Nrf2/HO-1 Pathway” during IBRO Associated School, ICNB2024 & TNS27, Amari Hua Hin Resort, Thailand. From May 8 to 14, 2024.
- Received **an International Travel Grant of 35,000 rupees from Central University of Punjab, Bhatinda**, to attend the IBRO APRC, Amari Hua Hin Resort, Thailand. From May 5 to 14, 2024.
- Attendee and received **1<sup>st</sup> Prize for neuroscience quiz competition** in an International Society for Neurochemistry (ISN-MLSU) First Neurochemistry School a present research work entitled “Neuroprotective effect of Arbutin against Haloperidol Induced Tardive Dyskinesia Via Inhibiting oxidative stress and Inflammatory cytokines” during ISN-MLSU, organized by Department of Pharmaceutical Sciences, MLSU, Udaipur, Rajasthan, India from 18 to 24 Jan 2024.
- Received **Best Oral Paper Presentation Award** for research work entitled “Arbutin alleviates orofacial dyskinesia in haloperidol induced experimental model of rats” in an International conference Innovation and Advances in Drug Development & Clinical Research’ (IADDCR-2023) organized by Chitkara College of Pharmacy, Chitkara University, Rajpura, Punjab, from 24<sup>th</sup> April to 25<sup>th</sup> April 2023.
- **Travel Grant awarded** by Central University of Punjab for attending 8<sup>th</sup> International Asian and Oceanian Parkinson's Disease and Movement Disorders Congress (**AOPMC**) (121.09 \$) and Registration & Accommodation Fees (178 \$) was provided by **Movement Disorders Society** of India for attending AOPMC 2023 Kolkata, India.
- Received an International Travel Grant of 10,000 rupees from Central University of Punjab, Bhatinda, to attend 8<sup>th</sup> International Asian and Oceanian Parkinson's Disease and Movement Disorders Congress (**AOPMC-2023**), Kolkata, India.

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|-----------------------------|
| <b>Project and Training</b> |
|-----------------------------|

- Effect Of Nrf2/HO-1 Signaling Activator Acetyl-11-Keto-Beta Boswellic Acid in Intracerebropeduncle Ethidium Bromide-Induced Experimental Model of Multiple Sclerosis in Rats. From 2019-2020 (**Completed**)



- Neuropharmacological investigation on raloxifene and fulvestrant against haloperidol-induced animal model of Tardive Dyskinesia: Possible role of GPR30 receptor, **approved by ICMR** for the year July 2022 to March 2025 (**Completed**)
- Training Program on "Hands on training on basic handling techniques used in zebrafish research" in CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT) September 26<sup>th</sup> - October 25<sup>th</sup>, 2022 (**Completed**)
- International Training Program on Visual reactive Programming -Bonsai, organized by CAJAL advanced neuroscience training program October, 24-28, 2022 (**Completed**)

### Conferences & Workshops

- 54th Annual Conference of Indian Pharmacological Society (IPSCON) 2024, **AIIMS, New Delhi**.
- Participated and presented Ph.D. research work in the International Congress of Parkinson's Disease and Movement Disorders®, held at **Philadelphia, PA, USA**.
- Participated in IBRO Associated School "Towards a new understanding of neuropsychiatric disorders: from genes, brain to behavior." held at **National Taiwan University, Taipei, Taiwan**.
- IBRO-APRC Associate School on "Neuro-Enhancement for Brain Health": Department of Pharmacology, Mahidol University, **Bangkok, Thailand**.
- ISN-MLSU First Neurochemistry School, Advances in Neurochemical Research Techniques and Management of Neurological Disorders: Department of Pharmaceutical Sciences, **MLSU, Udaipur, Rajasthan, India**.
- Attended an International conference Innovation and Advances in Drug Development & Clinical Research' (IADDCR-2023) organized by Chitkara college of Pharmacy, Chitkara University, Rajpura, Punjab, from 24<sup>th</sup> April to 25<sup>th</sup> April 2023".
- Poster Presentation on 8th International Asian and Oceanian Parkinson's Disease and Movement Disorders Congress (AOPMC), Organized by International Parkinson and Movement Disorders Society, from 17<sup>th</sup> March to 19<sup>th</sup> March, 2023 in Kolkata, India,
- Oral Paper Presentation on IBRO school "Ferulic acid exhibits neuroprotective Effect against 3-nitropropionic acid – induced neurotoxicity in rats" IBRO school International organized by ISF COLLEGE OF PHARMACY, MOGA, November 7-10, 2022
- Poster Presentation on International Conference entitled "Arbutin Ameliorates Haloperidol-Induced Tardive Dyskinesia in Rats and Reduces Neurotoxicity in Cells" Organized by National Institute of Pharmaceutical education and research (NIPER), **SAS Nagar, Punjab, India** November 10-12, 2022
- Participated in Webinar Brain Research Needs Animal Models; Let's Talk About It! Organized by Federation of Neuroscience Society on 15<sup>th</sup> June 2023
- Attended one Week "Brain Awareness Week" Organized by the Department of Pharmaceutical Sciences, Central University of Haryana, from April 4<sup>th</sup> -6<sup>th</sup> 2023 Haryana, India

- Participated in the workshop on "Multiphase Flow- Research and Applications (MFRA 2023)" sponsored by DST (under SSR policy) and organized by Central University of Punjab, Bhatinda, India held on 11 March 2023
- Attended CME on Scientific Publication organized by Department of Pharmacology and Department of Pharmaceutical Sciences and Natural Products, Central University of Punjab, Bhatinda, India, on 13<sup>th</sup> March 2023
- Attended 7<sup>th</sup> Annual Conference of the Movement Disorders Society of India, held in the ITC Royal Bengal, Kolkata on 16<sup>th</sup> March 2023
- International Conference on Recent Trends and Future Opportunities in Pharmaceuticals Organized by National Institute of Pharmaceutical Education and Research (NIPER), SAS Nagar, Punjab, India November 10-12, 2022
- IBRO-APRC Associate school Awardee on Advances in Nanoneurotherapeutics and Neurological Disorders organized by ISF COLLEGE OF PHARMACY, MOGA, Punjab November 7-10, 2022
- International Training Program on Visual reactive Programming -Bonsai, organized by CAJAL advanced neuroscience training program October, 24-28, 2022
- One Month Training Program on "Hands on training on basic handling techniques used in zebrafish research" in CSIR-INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY (CSIR-IHBT) September 26<sup>th</sup> - October 25<sup>th</sup>, 2022
- National workshop on 'Data Analytics in Life Sciences: Introduction and Applications conducted by the Indian Academic of Neurosciences - Delhi-NCR Chapter on September 30, 2022.
- Participation in International Webinar on the potential and advancement of neuro-nutraceuticals in brain health; organized by IBRO Global Neuroscience Horizons, 9-September 2022
- Participation on national Webinar on Fundamental Aspects of Research Protocol Design and Alternatives to Animal Experimentation Organized by Isf College of Pharmacy, Moga, July 10, 2022
- 10<sup>th</sup> International Conference of LASA India on Animal Models for One Health Programmer: Challenges and Future Perspectives: Laboratory Animal Scientist's Association (LASA), ICMR, NIAB, Hyderabad, India.
- Participation in International Elsevier Knowledge Hub - Publication Ethics and Research: APAC Knowledge Hub Workshop, on Wednesday 11 May, 2022
- Faculty Development Programme on Recent Trends & Technologies in Pharmaceutical Research: SRM Modinagar College of Pharmacy Srmist, Delhi-NCR Campus, Ghaziabad, U.P., India. 23<sup>rd</sup> to 28<sup>th</sup> May, 2022
- IBRO-APRC 2022 virtual symposium on "Recent Trends in Brain Research: Unlocking the mysteries", organized by IBRO in collaboration with Institute of Home Economics, University of Delhi & Indian Academy of Neurosciences on 22<sup>nd</sup> and 23<sup>rd</sup> March, 2022
- Webinar on Pharma Career opportunities & Challenges: Indian Pharmacy Graduates Association (South Zone) India
- Emerging Trends and Alternatives in Pharmacological Research: University Institute of Pharmaceutical Sciences Punjab University Chandigarh India from February, 14-19, 2022



- Workshop Cum-Conference on Pharmacovigilance & Medicine Safety: ADR Monitoring Center (AMC) Department of Pharmacology, AIMS Bathinda, Punjab India
- Training Program on Application of Biostatistics in Health Research: ICMR-NIREH Bhopal, India
- Participated in the Advanced Session on Patenting Strategies and Patent Search Exercise for Inventions in Pharmaceutical Sciences" organized by Central University of Punjab Bhatinda held on 1<sup>st</sup> December, 2021 Pharmacovigilance and Drug Safety: Recent Developments and Future Perspectives: Indo Soviet Friendship college of Pharmacy, Moga, Punjab, India.
- Learning Basics of Publishing in Quality Journals: Elsevier & Indo Soviet Friendship college of Pharmacy, Moga, Punjab, India
- ICMR-national institute of nutrition department of health research: Ministry of health & family welfare government of India, Hyderabad, Telangana,
- Nanomedicine-based brain targeted drug delivery system: Indo Soviet Friendship college of Pharmacy, Moga, Punjab, India
- International Conference on Current Trends in Pharmaceutical Industry: Maharishi Markendeshwar University Harayana, India


### Professional Skills


- Capable of leading and coordinating complex research projects, showcasing strong experimental design and execution skills.
- Able to articulate complex scientific concepts clearly, facilitating effective communication with diverse audiences.
- Skilled in fostering interdisciplinary collaborations, enhancing the impact and breadth of research initiatives.
- Adheres to ethical standards and ensures compliance with ICH guidelines and other regulatory requirements.
- Demonstrates adeptness in identifying and addressing scientific challenges, showcasing adaptability and critical thinking.
- Exhibits the ability to mentor and guide junior researchers or team members, contributing to a collaborative and supportive research environment.

### References


#### ❖ Prof. (Dr) Puneet Kumar, Professor & Former HOD, Department of Pharmacology

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### Declaration

I solemnly declare that the above information is true and correct to the best of my knowledge. I understand that if any information given above is found false/incorrect, my candidature is liable to be rejected.

**Name:** Dr. Shubham Upadhyay

**Place:** Bhatinda, India

