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| **TO MAGNIFICO RETTORE OF UNIVERSITA’ DEGLI STUDI DI MILANO ID CODE: 5437** |
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| I the undersigned ask to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di** \_**Scienze Farmaceutiche**  Scientist–in–charge: Dr. Davide Lecca |
|  |

**[Name and surname]**

**CURRICULUM VITAE**

PERSONAL INFORMATION

|  |  |
| --- | --- |
| Surname | Not Applicable |
| Name | KHUSHBOO |

PRESENT OCCUPATION

|  |  |
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| Appointment | Structure |
|  | Not Applicable |

EDUCATION AND TRAINING

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| --- | --- | --- | --- |
| Degree | Course of studies | University | year of achievement of the degree |
| High School  (H.Sc.) | Hindi\*, English, Maths, Science, Social Sciences and Sanskrit\* (**\***Distinction in  Subjects) | U.P. Board of Education,  Allahabad, U.P., India | 2008 |
| Intermediate  (I.Sc.) | Hindi\*, English, Biology\*,  Physics\*, Chemistry**\***(**\***Distinction in Subjects) | U.P. Board of Education,  Allahabad, U.P., India | 2010 |
| Bachelor of Science (B.Sc) | Botany, Zoology, Chemistry | CSJM, Kanpur University | 2013 |
| Master | Master of Science (Biochemistry) | University of Allahabad | 2016 |
| PhD | Biochemistry | University of Allahabad | A thesis submitted on 21st June 2022 |
| Degree of medical specialization | Not Applicable | Not Applicable | Not Applicable |
| Degree of European specialization | Not Applicable | Not Applicable | Not Applicable |
| Other | Not Applicable | Not Applicable | Not Applicable |

**Title of Ph.D.** **Thesis**: “Studies on fluoxetine mediated consequences in rat brain: protective effect of phytochemicals”.

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

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| Date of registration | Association | City |
|  | Not Applicable |  |

FOREIGN LANGUAGES

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| --- | --- |
| Languages | level of knowledge |
| English | Proficient |

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

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| Year | Description of award |
| 2019 | The travel grant award for US $1500 by the International Society for Neurochemistry (ISN-ASN) to participate in the international conference in neurochemistry held in Montreal, Canada during 4-8 August 2019. |
| 2019 | Full Conference Participation Grant (CPG) supporting travel, stay and registration awarded by Virology Education, The Netherlands to attend an International Conference on Tokyo HEV Clinical Forum (HEPCF), at Tokyo-Japan during October 28-29, 2019, Japan |
| 2019 | Full conference participation support towards travel, stay and registration awarded by India International Science Festival, November 04-09, 2019 to attend the event at Kolkata, India. |
| 2022 | Travel grant award for US $1700 by the International Society of Neurochemistry (ISN-APSN) to participate in an international conference in neurochemistry held in Honolulu, Hawaii during 28-01 September 2022. |
| 2022 | Financial support **(Category 1A Visit by the applicant to another laboratory)** to the Committee for Aid and Education in Neurochemistry by the International Society of Neurochemistry. I have been awarded $ 3.000 USD for your visit to the laboratory of Arturo Ortega at the Dept. Toxicology, Cinvestav, Mexico City, México. |

TRAINING OR RESEARCH ACTIVITY

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| **Description of activity**  Collection, handling, and storage of human blood samples, Animal handling, Assays for oxidative stress parameters (MDA, GSH, activities of SOD, CAT, GST), and other Enzymes AChE, MAO, LDH, MDH, GPx, transaminases (SGOT, SGPT), phosphatases (alkaline and acid phosphatases), electrophoresis (SDS-PAGE and agarose gel electrophoresis), DNA & RNA Isolation and quantification using NanoDrop UV-Visible double beam spectrophotometer, centrifugation, Spectrofluorometry, Gel doc analysis, animal cell culture, HPLC, Simple and compound microscopy, Camera Lucida, autoclaving, plant extract preparation using Soxhlet apparatus, RBC membrane (ghost) preparation, homogenisation of animal tissues, histopathology, development of depression animal model, Confocal Micro raman spectroscopy.  In the laboratory of Arturo Ortega at the Dept. Toxicology, Cinvestav, Mexico City, México, I did work on different glial cells, Glutamate uptake, D-Aspartate uptake, Western blot of GLAST and GLT1 expression, cell viability test, Cell morphology, Brain cells culture, Immunohistochemistry etc. |

PROJECT ACTIVITY

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| Year | Project |
|  | Not Applicable |
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PATENTS

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| Patent |
| Not Applicable |
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CONGRESSES AND SEMINARS

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| Date | Title | Place |
| 2019 | Women Scientists & Entrepreneurs Conclave (WSEC) and Young scientists conference (YSC) conducted by India International Science Festival | Kolkata |
| 2019 | One Health & Ecosystem Services 2019 conducted by ICAR-NBFGR | Lucknow |
| 2019 | 89th Annual Session of NASI and Symposium on Science and Technology based Entrepreneurship Development 2019 conducted by The National Academy of Sciences, India | ICAR-National Academy of Agricultural Research Management, Hyderabad |
| 2020 | An International Conference on Biotechnological Interventions for Societal Development ‘BioSangam’ 2020 | Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, India |
| 2021 | Confocal micro Raman spectroscopic study on the effect of fluoxetine and ethanolic extract of garlic in the brain of depressed rat’ at the American Society of Neurochemistry (ASN) Conference | Virtual Meeting (USA) |
| 2022 | Development of a model of depression in rat and validation by relevant methods at the 15th National Conference of The Indian Science Congress Association (Allahabad Chapter) in association with DST PURSE | University of Allahabad (India) |
| 2022 | **‘**The antidepressant-like action of ethanolic extract of garlic is mediated by its antioxidant function at the ISN-APSN 2022 Meeting 2022 | Honolulu, Hawaii, USA |

PUBLICATIONS

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| Books |
| [title, place, publishing house, year …] |
| [title, place, publishing house, year …] |
| [title, place, publishing house, year …] |

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| Articles in reviews |
| Kumar, A., **Khushboo**, Pandey, R., Sharma B. (2020). Modulation of Superoxide Dismutase Activity by Mercury, Lead, and Arsenic. Biological Trace Element Research, **196**, 654–661.https://doi.org/10.1007/s12011-019-01957-3, Impact Factor: 2.43 |
| **Khushboo**, Gupta, V. K., & Sharma, B. (2022). Hepatoprotective Effect of Ethanolic Extract of Garlic against Reserpine Induced Toxicity in Wistar Rats. Indian Journal of Clinical Biochemistry, 1-11. https://doi.org/10.1007/s12291-022-01045-9 Impact Factor:1.3 |
| **Khushboo**, Nikhat J. Siddiqui, K.P. Singh, Bechan Sharma (2022). The antidepressant-like action of ethanolic extract of garlic is mediated by its antioxidant function. Journal of King Saud University-Sciences. (Accepted) Impact Factor: 4.011 |
| **Khushboo**, Siddiqi, N.J., de Lourdes Pereira, M. *et al.* Neuroanatomical, Biochemical, and Functional Modifications in Brain Induced by Treatment with Antidepressants. Molecular Neurobiology (2022). https://doi.org/10.1007/s12035-022-02780-z, Impact Factor:5.59 |
| **Khushboo**, Kumar A., Sharma B. (2021) Biomedical Implications of Plant-Based Principles as Antidepressants: Prospects for Novel Drug Development.Mini Reviews in Medicinal Chemistry. Doi: 10.2174/1389557521666210415112601. Online ahead of print. Impact Factor:3.8 |
| **Khushboo**, Nikhat J. Siddiqui and B. Sharma (2022). Pathophysiology of SARS-CoV2 mediated depression and therapeutics: A Narrative Review. Mini Reviews in Medicinal Chemistry. Ahead of print. Impact Factor: 3.8 |
| Gupta SP, **Khushboo**, GuptaVK, Minhas U, Kumar R and SharmaB (2021) *Euglena species*; Bioactive Compounds and their Varied Applications. Current Topics in Medicinal Chemistry. Impact Factor: 3.295 |
| **Khushboo**, Sharma B (2017) Antidepressants: Mechanism of Action, Toxicity and Possible Amelioration. Journal of Applied Biotechnology Bioengineering 3(5): 00082. DOI: 10.15406/jabb.2017.03.00082 |
| Khushboo and B Sharma (2019) Factors inducing depression as effective tool in therapy. Medical and Clinical Archives 3:1-4. doi: 10.15761/MCA.1000163, |
| **Khushboo** and Bechan Sharma (2022) Neurochemical signaling in psychosomatic disorders with special reference to depression: impact of target based pharmaceuticals. Current Drug Therapy. Impact Factor: 0.5 |
| **Khushboo**, Abhishek Kumar and Bechan Sharma (2018) Phytochemicals as antidepressants Recent advances in pharmaceutical biotechnology and future medicine. (Eds. J K Patra, Shukla A, Das G), Springer Nature Publisher.pp.115-132. |

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| Congress proceedings |
| [title, structure, place, year] |
| [title, structure, place, year] |
| [title, structure, place, year] |

OTHER INFORMATION

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| **Broad Research Areas:** Molecular Biology and Biochemistry of depression, Neurobiology, Biochemical Toxicology, Drug Development, Free Radical Biology, Phytomedicines |
| **Title of Ph.D.Thesis**: “Studies on fluoxetine mediated consequences in rat brain: protective effect of phytochemicals”. |
| **Dissertation topic at M.Sc. level:** “Effect of Diabetes on some biochemical measures” related to oxidative stress and their effect on whole blood samples. |
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Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need for publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Prayagraj, India (22 Nov, 2022)