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| **TO MAGNIFICO RETTORE OF UNIVERSITA’ DEGLI STUDI DI MILANO ID CODE : 5540** |
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| I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di \_\_\_** **Department of Pharmaceutical Sciences**  Scientist- in – charge:  **Prof. Alessandro Pedretti** |

**[Shivani Gupta]**

**CURRICULUM VITAE**

PERSONAL INFORMATION

|  |  |
| --- | --- |
| Surname | Gupta |
| Name | Shivani |

EDUCATION AND TRAINING

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| --- | --- | --- | --- |
| Degree | Course of studies | University | Year of achievement of the degree |
| PhD | Chemical Engineering | Indian Institute of Technology Guwahati, Assam, India | 2023 |
| Master (Integradted M.Tech) | Biotechnology | Amity University, Noida, India | 2013 |
| Bachelor (Integradted M.Tech) | Biotechnology | Amity University, Noida, India | 2013 |

FOREIGN LANGUAGES

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| Languages | level of knowledge |
| English | Fluent |
| Hindi | Native |
| Assamese | Speaking |

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

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| Year | Description of award |
| 2017-2021 | Awarded **MHRD, Govt. of India Fellowship** for Higher Studies |
| 2016 | **DAAD Scholarship** - IGCS (Indo-German Centre for Sustainability) at TU Berlin summer school, Germany. |
| 2014 | Qualified the National Level exam in Graduate Aptitude Test in Engineering **(GATE).** |

SKILLSET

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| Molecular Dynamics Simulation, Free Energy calculation, Bioinformatic tools, Visualization of the biological molecules (VMD), GROMACS package, Molecular docking by AUTODOCK and MM-PBSA tool. |

TRAINING OR RESEARCH ACTIVITY

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| Year | Project |
| 2014-2015 | **Junior Research Fellow** at International Center for Genetic Engineering and Biotechnology |
| 2012 | **Observer**, 2012 in Production of beer from SUPREME BEER INDUSTRIES, Haryana, India |
| 2012 | **Intern**, 2012 in Pre-Clinical Toxicology Studies in animals from Dabur, Uttar Pradesh, India |
| 2011 | **Research Intern**, 2011 in Assessment of Bacterial Volatiles Using GC-MS from TERI (The Energy and Resources Institute), Indian Habitat Center, Delhi, India. |
| 2010 | **Intern,** 2010 in Production of Oral Polio Vaccine from PANACEA BIOTEC, Delhi, India. |

CONGRESSES AND SEMINARS

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| Date | Title | Place |
| 2019 | Comp Flu at IISER, Bhopal (Poster) | Indian Institute of Science Education and Research, Bhopal, India |
| 2019 | Research Conclave and won 2nd prize (Poster) | Indian Institute of Technology, Guwahati |
| 2018 | Reflux and won First prize (Oral) | Indian Institute of Technology, Guwahati |
| 2013 | International Symposium , Amity University (Poster) | Amity University, Noida, India |

PUBLICATIONS

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| Research Article |
| **S. Gupta**, A.K. Dasmahapatra, Caffeine destabilizes preformed Aβ protofilaments: insights from all-atom molecular dynamics simulations, Physical Chemistry Chemical Physics. 21 (2019) 22067–22080.<https://doi.org/10.1039/C9CP04162a>. (IF: 3.945) |
| **S. Gupta**, A.K. Dasmahapatra, Destabilization potential of phenolics on Aβ fibrils: mechanistic insights from molecular dynamics simulation, Physical Chemistry Chemical Physics. 22 (2020) 19643–19658. <https://doi.org/10.1039/D0CP02459g>.(IF: 3.945) |
| **S. Gupta** and A. K. Dasmahapatra, Destabilization of Aβ fibrils by omega-3 polyunsaturated fatty acids: a molecular dynamics study, Journal of Biomolecular Structure and Dynamics, 2023, 41, 581–598.https://doi.org/10.1080/07391102.2021.2009915. (IF: 3.392) |
| Rai, M. P., & **S. Gupta** (2017). Effect of media composition and light supply on biomass, lipid content and FAME profile for quality biofuel production from Scenedesmus abundans. Energy Conversion and Management, 141, 85–92. https://doi.org/10.1016/j.enconman.2016.05.018. (IF: 11.533). |

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| Articles in reviews |
| * Lycopene Destabilizes Preformed Aβ Fibrils: Mechanistic Insights from All-Atom Molecular Dynamics Simulation. (Under Review). |
| * Enhanced Stability of a Disaggregated Aβ Fibril on Removal of Ligand Inhibits Refibrillation: An All-atom Molecular Dynamics Simulation Study. (Under Review). |

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| Congress proceedings |
| * Rai, M. P., & **S. Gupta.** (2016). Growth and Lipid Production from Scenedesmus sp. Under Mixotrophic Condition for Bioenergy Application (S. Kumar, S. K. Khanal, & Y. K. Yadav (eds.); pp. 159–167). Springer, India. https://doi.org/10.1007/978-81-322-2773-1 12. |

OTHER INFORMATION

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| * **Six Sigma Certification from AU-BSI.** |
| * **IELTS: Overall Band: 7.5** |

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 of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Delhi, 6th January,’2023