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| **TO MAGNIFICO RETTORE OF UNIVERSITA’ DEGLI STUDI DI MILANO ID CODE: 5384** |
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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 Scienze per gli Alimenti, la Nutrizione e l’Ambiente dell’**Scientist- in – charge: **Prof.ssa Lucia Cavalca** |
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**[Aatif Amin]**

**CURRICULUM VITAE**

PERSONAL INFORMATION

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| Surname | Amin |
| Name | Aatif Amin |

PRESENT OCCUPATION

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| Appointment | Structure |
| Assistant Professor and Head of Deaprtmet of Microiology | Uiversity of Cetral Pujab (Academic and Research) |

EDUCATION AND TRAINING

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| **DEGREE TITLE** | **SPECIALIZATION****(Main Subjects)** | **INSTITUTE NAME** | **Years Attended** |
| **From** | **To** |
| Ph.D. | Microbiology and Molecular Genetics | University of the Punjab | 2011 | 2018 |
| M.Phil. | Microbiology and Molecular Genetics | University of the Punjab | 2009 | 2011 |
| M.Sc. | Microbiology and Molecular Genetics | University of the Punjab | 2007 | 2009 |
| B.Sc. | Chemistry, Botany and Zoology | University of Gujrat | 2005 | 2007 |
| F.Sc. | Biology, Chemistry and Physics | BISE Gujranwala | 2003 | 2005 |
| Matric | Biology, Chemistry and Physics | BISE Gujranwala | 2001 | 2003 |

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

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| **Designation** | **INSTITUTE** | **Duration** |
| **From** | **To** |
| Head of Department of Microbiology | University of Central Punjab, Lahore | June, 2022 | To date |
| Assistant Professor | University of Central Punjab, Lahore | Nov 01, 2019-  | To date |
| Lecturer | University of Central Punjab, Lahore | Oct., 2018 | Oct, 2019 |
| Research Scholar | University of the Punjab, Lahore | Oct., 2012 | Sep.,2017 |
| Junior Specialist | University of California, San Diego (UCSD), USA | May, 2015 | Nov., 2015 |
| To Conduct Practical of Medical Microbiology to M.Sc. Class | University of the Punjab, Lahore | Oct., 2010 | Jan., 2011 |

FOREIGN LANGUAGES

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| Languages | level of knowledge |
| English | Excellent |

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

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| Year | Description of award |
| May 2015 to Nov 2015  | Title: Purification and structural elucidation of proteins involved in mercury detoxification system of bacteria Funding Agency: Higher Ecducation Pakistan (HEC), IslamabadPlace: University of California, San Diego, USASupervisor: Staley J. Opella |

TRAINING OR RESEARCH ACTIVITY

* Participated in Training Session for Diabetes Advanced diagnosis techniques, Management and Treatment / Free Medical Camp and Awareness Walk held in Webinar Room C-building UCP, Lahore on November 18, 2021
* Participated in Teaching Excellence Program (Week-II) organized by CPD at UCP, Lahore (September 13 to 16, 2021)
* Presented in Faculty Development Training Program (Phase-II), Faculty of Life Science, UCP (August 22nd to September 6th, 2020)
* Participated in Faculty Development Training Program (Phase-I), Faculty of Life Science, UCP (September 8th to 9th, 2020)
* Seminar on “Recent Trends in Life Sciences: Biochemical Techniques Used in Diagnostic Labs” by Department of Biochemistry, University of Central Punjab, Lahore (September 20, 2019)
* Participated in workshop “Faculty Development Program” organized by Faculty of Life Sciences at University of Central Punjab, Lahore, Pakistan (September 17-18, 2019)
* Participated in International Conference “Clarivate Analytics (Web of Science)” at Center of Excellence in Molecular Biology, University of the Punjab, Lahore, Pakistan (March 11, 2019)
* Presented in 39th Pakistan Congress of Zoology (International), at Department of Zoology, Islamia College University, Peshawar, Pakistan (March 4-6, 2019)
* Participated in International Symposium on “Food Security, Quality and Safety” University of Central Punjab, Lahore, Pakistan (November 27-28, 2018)
* Participated in Dual Use Research of Concern workshop organized by Microbiology and Molecular Genetics Department, University of the Punjab and Health Security Partners (ASM) (18th July, 2016)
* Presented in Diversity in Microbiology: A Crosstalk organized by Microbiology and Molecular Genetics Department, University of the Punjab and American Society for Microbiology (ASM) (17th December, 2015)
* Presented in 10th Biennial International Conference of Pakistan Society for Microbiology, Department of Microbiology and Molecular Genetics, The University of Punjab, Lahore (March 25-28, 2015)
* Participated in Workshop on Parasitology and its Immunological Aspects held by Department of Microbiology and Molecular genetics, University of the Punjab ( February 13-14, 2015)
* Participated in symposium on “Emerging issues of multidrug resistance: A Threat to the Globe”, Department of Microbiology and Molecular Genetics, The University of Punjab, Lahore (2nd October, 2014)
* Participated in one day training session on “Scientific Writing: Guidelines, Issues and Solutions” in Department of Microbiology and Molecular Genetics, University of the Punjab. (27th March, 2014)
* Participated in one day training session on “Introduction and Use of EndNote®” in Department of Microbiology and Molecular Genetics, University of the Punjab. (20th February, 2014)
* Participated in one day training session on “Making Sense from Sequence” in Department of Microbiology and Molecular Genetics, University of the Punjab. (25 January, 2014)
* Participated in workshop on Biosafety and Risk Assessment, organized by Biosafety and Bioresource Committee, University of the Punjab, Lahore (19 April, 2014)
* Participated in Seminar on Recent trends in molecular therapeutics held by Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore (19 August, 2014)
* Participated in seminar on “Soil Health Reclamation Approaches”, by College of Earth & Environmental Sciences (CEES), University of the Punjab, Lahore (11 June, 2014)
* Presented in 2nd International Conference on “Biotechnology for Sustainable Development”, By Institute of Industrial Biotechnology, GC University, Lahore- (26-28 November, 2014)
* Presented in 1st National Student Conference in Life Sciences at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad (27-28 March, 2014)
* Presented in conference on Bio-Physicochemical Basis for Techno-preneurship organized by Department of Microbiology and Molecular Genetics (MMG) and Institute of Business Administration University of the Punjab, Lahore (02-03 April, 2013)
* Presented in 11th Biennial Conference "Molecular Biosciences - Challenges and Opportunities” by The Pakistan Society for Biochemistry and Molecular Biology, held at School of Biological Sciences, The University of the Punjab, Lahore. (25-28 November, 2013)
* Presented in “9th International Conference of Pakistan Society for Microbiology (PSM)” in collaboration with American Society for Microbiology (ASM) at Department of Microbiology, The University of Karachi, Karachi (28-31 January, 2013)
* Participated in one day training session on “Introduction and Efficient Use of National Digital Library” in Department of Microbiology and Molecular Genetics, University of the Punjab. (13 December, 2013)
* Participated in Four Days “ASM-KU National Microbiology Teachers Training Workshop” held in Department of Microbiology, University of Karachi. (27-30th Sept 2013)
* Participated in five days 2nd In Service Faculty Training Program by Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore and Learning Innovation Division (LID), Higher Education Commission (HEC) Pakistan (04-08 February, 2013)
* Participated in one day workshop on Quantitative Data Analysis using SPSS organized by Office of Research, Innovation, and Commercialization (ORIC) University of the Punjab, Lahore (29 September, 2012)
* Presented in conference on “Agriculture and Food Security Issues in Global Environmental Perspectives”, by Faculty of Agriculture Rawalakot, The University of Poonch, Rawalakot (11-13 July, 2012)
* Participated in training workshop on “Turnitin Anti-Plagiarism Software” by Punjab University Library (14 April, 2011)
* Participated in seminar on "Dengue Fever” University of the Punjab, Lahore (21 September, 2011)
* Participated in Proteomics Workshop: From Sample Preparation to Data Analysis, Department of Microbiology and Molecular Genetics, Punjab University (24-25 October, 2007)
* Participated in 1st symposium on Genomics, Proteomics, Metabolomics: Recent trends in Biotechnology, Department of Microbiology and Molecular Genetics, Punjab University (22-23 October, 2007)

PROJECT ACTIVITY

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| Year | Project |
| 2022-23 | Title: Exploring the determinants of COVID-19 vaccine hesitancy in parents of children and adolescents in Pakistan; A multicenter studyFunding Agency: National Institute of Health (NIH), IslamabadAmount: 1.4 million PKR |
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PATENTS

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| Patent |
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CONGRESSES AND SEMINARS

SEMINARS/WORKSHOPS/CONFERENCES (organized)

• Workshop on “Bio-waste Management” by Department of Biotechnology, University of Central Punjab, Lahore in collaboration with Pakistan Biological Safety Association (PBSA) (August 01, 2019)

• Workshop on “Biosafety Training for Young Researchers” by Department of Biotechnology, University of Central Punjab, Lahore in collaboration with Pakistan Biological Safety Association (PBSA) (June 24, 2019)

• Workshop on “DNA Fingerprinting” A tool to explore genetic diversity organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, in collaboration with Higher Education Commission of Pakistan (May 25-26, 2016)

• Seminar on Diversity in Microbiology: A Crosstalk organized by Microbiology and Molecular Genetics Department, University of the Punjab and American Society for Microbiology (ASM) (December 17, 2015)

**PUBLICATIONS**

1 Waheed Murad, **Aatif Amin**, Muhammad Hissan Khan, Nasir Mahmood, Mehboob Ahmed. (2022). Assessment of antimicrobial, antialgal and cytotoxic activities of crude extracts from rhizospheric and freshwater cyanobacterial strains. Advancements in Life Sciences. Accepted. (HEC Recognized ‘Y’ Category).

2 Muhammad Naveed, Mohsin Sheraz, **Aatif Amin**, Muhammad Waseem, Tariq Aziz et al., (2022). Designing a novel peptide-based multi-epitope vaccine to evoke a robust immune response against pathogenic multidrug-resistant Providencia heimbachae. Vaccines (Basel). 10(8):1300. (IF-4.961).

3 **Aatif Amin**, Muhammad Naveed, Arslan Sarwar, Hafiz Ghulam Murtaza, Sunbul Rasheed, Zakia Latif (2022). In vitro and in silico studies reveal Bacillus cereus aa-18 as a potential candidate for bioremediation of mercury contaminated wastewater. Frontiers in Microbiology. 13:847806. (IF-6.064)

4 **Aatif Amin**, Muhammad Naveed, Umair Munawar, Zakia Latif (2021). Characterization of mercury‑resistant rhizobacteria for plant growth promotion: An in vitro and in silico approach. Current Microbiology, 78, 3968–3979. IF-2.188)

5 Iqra Zahid, Arslan Sarwar, Abid Hussain, Muhammad Sohail, **Aatif Amin**. (2021). Antibiotyping and genotyping of extensively drug-resistant (XDR) Salmonella sp. isolated from clinical samples of Lahore, Pakistan. Journal of Applied Microbiology, doi: 10.1111/jam.15131. (IF-3.772)

6 **Aatif Amin**, Zakia Latif, Arslan Sarwar, Basit Zeshan and Mushtaq A. Saleem. (2021). Molecular Characterization of mercury resistant Bacillus spp. isolated from tanneries wastewater. Pakistan Journal of Zoology, 52: 1-7 (IF-0.831)

7 Arslan Sarwar, Imtiaz Ahmed, **Aatif Amin**, Mushtaq A. Saleem (2020). Paper currency harbours antibiotic-resistant coliform bacteria and integron integrase. Journal of Applied Microbiology, 130(5), 1721-1729 (IF-3.772)

8 **Aatif Amin**, Arslan Sarwar, Mushtaq A. Saleem, Zakia Latif and Stanley J. Opella (2019). Expression and purification of transmembrane protein MerE from mercury resistant Bacillus cereus. Journal of Microbiology and Biotechnology, 29(2): 274-282. (IF-2.531)

9 Arslan Sarwar, Zakia Latif, **Aatif Amin**, Mushtaq A. Saleem (2019). First report of streptomyces europaeiscabiei causing potato common scab in Galicia, Spain. Plant Disease, 103: 1407-1407. (IF-4.438)

10 **Aatif Amin** and Zakia Latif (2017). Cloning, expression, isotope labelling, and purification of transmembrane protein MerF from mercury resistant Enterobacter sp. AZ-15 for NMR studies. Frontiers in Microbiology, 8: 1250-1261. (IF-5.640)

11 **Aatif Amin** and Zakia Latif (2017). Screening of mercury-resistant and indole-3-acetic acid producing bacterial-consortium for growth promotion of Cicer arietinum L. Journal of Basic Microbiology, 57(3), 204-2017. (IF-2.281)

12 **Aatif Amin** and Zakia Latif (2017). Bioremediation of heavy metals for sustainable agriculture: In Rhizotrophs: Plant growth promotion to bioremediation. Editor. Samina Mehnaz Springer publishers, (Singapore), pp 275-289. doi: https://doi.org/10.1007/978-981-10-4862-3\_14 (Book Chapter)

13 **Aatif Amin**, Faiz Ahmed and Muhammad Faisal (2015). Characterization of desiccation tolerant rhizobacteria from Cholistan desert, Pakistan: Their impact on growth of Zea mays L. Polish Journal of Environmental Studies, 24(4): 1773-1781. (IF-1.699)

14 **Aatif Amin**, Amira Rafique and Zakia Latif (2015). Screening and characterization of mercury-resistant nitrogen fixing bacteria and their use as biofertilizers and for mercury bioremediation. Pakistan Journal of Zoology, 47(5): 1271-1277. (IF-0.831)

15 **Aatif Amin** and Zakia Latif (2015). Phytotoxicity of Hg and its detoxification though microorganisms in soil. Advancements in Life Sciences, 2(2): 98-105. (HEC-Y category)

16 **Aatif Amin** and Zakia Latif (2015). PCR based DNA fingerprinting of mercury resistant and nitrogen fixing Pseudomonas spp. Pure and Applied Biology, 4(1): 129-136. (HEC-Y category)

17 **Aatif Amin** and Zakia Latif (2013). Detoxification of mercury pollutant by immobilized yeast strain candida xylopsoci. Pakistan Journal of Botany, 45(4): 1337-1342. (IF-0.972)

18 **Aatif Amin** and Zakia Latif (2011). Isolation and characterization of H2S producing yeast to detoxify mercury containing compounds. International Research Journal of Microbiology, 2(12): 517-525. (Peer-reviewed & Open Access)

Total Impact Factor = 40.019

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| Books |
| Rhizotrophs: Plant growth promotion to bioremediation in *Bioremediation of heavy metals for sustainable agriculture,* Springer (Singapore), 2017 |

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| Articles in reviews |
| Characterization of mercury ameliorating rhizobacteria for enhancing growth and yield of *Triticum aestivum* L. in fields, Under review, Frontiers in Microbiology, Switzerland, Frontiers, 2022 |
| Evaluation of antimicrobial effect of silver nanoparticle-based whey emulsions and edible films for the extension of shelf life of fruits and vegetables, Under review (CMIC-D-22-00484R1), United States, Springer Nature, 2022  |

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| Congress proceedings |
| Cloning, expression and purification analysis of transmembrane protein merE from mercury resustant *Bacillus* sp., International Conference on Biological and Computational Sciences organized by Department of Bioinformatics and Biosciences, Capital University of Science and Technology, Islamabad, Pakistan |
| Screening of mercury resistant and phytohomone producing bacteria for growth promotion of *Cicer arietinum* L. Pakistan Congress of Zoology (International), at Department of Zoology, Islamia College University, Peshawar |
| Detoxification of mercury by nitrogen fixing bacteria isolated from different areas of Punjab, Pakistan, Pakistan Congress of Zoology (International), at Department of Zoology, Islamia College University, Peshawar |

OTHER INFORMATION

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| 1. Member of American Society for Microbiology (ASM)
2. Member of American Society for Biochemistry and Molecular Biology (ASBMB)
3. Member of Pakistan Society for Biochemistry and Molecular Biology (PSBMB)
4. Member of Pakistan Society for Microbiology (PSM)
5. Member of Editorial Board: Journal of American Academic Research
6. Reviewer: European Journal of Soil Biology.
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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 of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: **Lahore, Pakistan, 02-09-2022**