



AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 6867

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il **Dipartimento di Scienze Biomediche e Cliniche**

Responsabile scientifico: **Prof. Riva Agostino**

[SHABAB HUSSAIN]

CURRICULUM VITAE

INFORMAZIONI PERSONALI

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| Cognome | HUSSAIN |
| Nome | SHABAB |

OCCUPAZIONE ATTUALE

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| Incarico | Struttura |
| Ph.D Researcher Student | Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina |

ISTRUZIONE E FORMAZIONE

| Titolo | Corso di studi | Università | anno conseguimento titolo |
|-------------------------------------|---|--|---------------------------|
| Degree | Bachelor of science in Biotechnology | Abasyn University Islamabad, Pakistan | 2019 |
| Laurea Magistrale o equivalente | Master of Science in Molecular Virology | COMSATS UNIVERSITY ISLAMABAD, PAKISTAN | 2021 |
| Dottorato Di Ricerca | Applied biology and Experimental Medicine | UNIVERSITY OF MESSINA, ITALY | 2024 |
| Master | | | |
| Diploma Di Specializzazione Medica | | | |
| Diploma Di Specializzazione Europea | | | |
| Altro | | | |



ISCRIZIONE AD ORDINI PROFESSIONALI

| Data iscrizione | Ordine | Città |
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LINGUE STRANIERE CONOSCIUTE

| lingue | livello di conoscenza |
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| English | C2 |
| Italian | A2 |
| Urdu | Fluent |

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

| anno | Descrizione premio |
|------|--|
| 2022 | Fully Funded Scholarship for PhD , University of Messina, Italy |
| 2016 | Award in Poster Preseantion, Pakistan Acadmey of Sciences Pakistan |
| 2015 | Merit Scholarship for Bachelor Degree studies |

ATTIVITÀ DI FORMAZIONE O DI RICERCA

descrizione dell'attività

1-MARIE CURIE SECONDMENT RESEARCHER, NATIONAL TECHNICAL UNIVERSITY OF ATHENS, GREECE (2024)

I was involve in FEEDACTIV project that is funded by European Union's Horizon Europe Framework Programme (HORIZON) under the Marie Skłodowska-Curie grant focuses on the development of innovative aquaculture feed supplements based on natural bioactive compounds that boost the immune system and exhibit antioxidant and antimicrobial activity.

2- Visitor Researcher at Ruder Boskovic Institute Zagreb, Croatia (2023)

I focused on the degradation of microplastics from face masks used during the COVID-19 pandemic. My work involved studying the breakdown process of these microplastics and assessing their impact on the model organism, zebrafish. I conducted experiments to observe the effects of microplastic exposure on zebrafish development and behavior. Along that I performed FTIR Spectroscopy for the classification of polymers.

3-Assitant researcher at Virology Lab Comsats university Islamabad,Pakistan (2022)

At the Department of Biosciences and Moleculer Virology Lab, I was actively involved in a Polio survillance project. My tasks included sample collection, RNA Extraction, performing PCR to detect viral RNA, and analyzing the results. I also contributed to primer designing and sequencing to identify specific strains of the virus.



4- Internship at Laboratory of Virology National Institute of Health Islamabad, Pakistan (2021)

During intrenship I Performed ELISA tests for Measles and Rubella virus samples received from hotspot regions across the Pakistan. Conduct PCR test for Positive Samples and Genomic Sequencing. Sample collection for Polio enviromental surveillance studies, their analysis with PCR and genome Sequencing.

5- Internship at Maroof International Hospital Islamabad Laboratory (2018)

During my internship I gained hands-on experience in microbiology testing. I performed tests such as culture and sensitivity, gram staining, and blood culture analysis to identify and analyze bacterial infections.

ATTIVITÀ PROGETTUALE

| Anno | Progetto |
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| 2024 | Environmental risks due to the use of personal protective equipment (PPE) as a health measure used against the new coronavirus COVID-19 (SARS-CoV-2) |
| 2024 | Addition of natural antimicrobial and antioxidant agents to the conventional feed production line |
| 2022 | Bio-Surveillance of polio virus from waste water from KPK, Bannu Pakistan |
| 2018 | Comparative and Synergistic Anti-oxidative Studies of the Extracts from Ocimum sanctum and Mentha |
| 2016 | Bioethanol production from sugar cane bagasse by adding bacillus cereus and Zymomnas bacteria |

TITOLARITÀ DI BREVETTI

| Brevetto |
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CONGRESSI, CONVEGNI E SEMINARI

| Data | Titolo | Sede |
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| 2024 | Health and safety in the workplace Training | Messina |
| 2023 | Discipline on animal protection used for scientific purposes (seminar) | Messina |
| 2023 | The immune system of Dicentrarchus labrax (seminar) | Messina |



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| 2023 | The safety of clinical trials (seminar) | Messina |
| 2023 | Impact of anthropogenic disturbance on Marine Ecosystem confernece | Messina |
| 2022 | Proposal Writing in the EIC path finder Program (Seminar) | Messina |
| 2022 | Glucocorticoids in inflammation and immune response: role of GILZ (Seminar) | Messina |
| 2022 | Systematic reviews and meta-analyses: theory and clinical applications | Messina |
| 2022 | Proposal writing on Piller II Health and Climate (seminar) | Messina |
| 2021 | Immunization Progress and Challenges in Pakistan (Seminar) | Pakistan |
| 2018 | Biosafety Training for Young Researcher (seminar) | Pakistan |
| 2018 | Employment of Bioinformatics Tools in Drugs Discovery and Development (seminar) | Pakistan |
| 2016 | Biosafety and Biosecurity in life sciences research (Conference) | Paksitan |

PUBBLICAZIONI

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| Libri |
| Bioprocessing and Purification of Metabolites: book chapter submitted to Springer Nature 2024 |

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| Articoli su riviste |
| Revealing Melatonin's Mysteries: Receptors, Signaling Pathways, and Therapeutics Applications https://doi.org/10.1055/a-2226-3971 (2024) |
| Surveillance of Wastewater Bodies from Bannu, Khyber Pakhtunkhwa, Pakistan for Poliovirus: https://doi.org/10.32350/bsr.53.07 (2023) |
| Comparative and Synergistic Anti-Oxidative Studies of the Extracts from Ocimum Sanctum and Mentha Piperita : http://dx.doi.org/10.5281/zenodo.7754020 (2023) |
| Plant extract mediated biogenic synthesis and characterization of nickel oxide nanoparticles and its environmental and antibacterial applications: https://doi.org/10.56946/jce.v2i2.280 (2023) |
| Extraction and purification of protein from orange seeds https://doi.org/10.5281/zenodo.726409 (2022) |
| Flora of Pakistan: An ethnopharmacological perspective https://doi.org/10.32593/jstmu/Vol3.Iss1.79 (2020) |
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| Atti di convegni |
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ALTRE INFORMAZIONI

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Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

RICORDIAMO che i curricula **SARANNO RESI PUBBLICI sul sito di Ateneo** e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: Messina, 31/08/2024