



ALLA MAGNIFICA RETTRICE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 6929

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 BIOLOGICAL SCIENCE

Responsabile scientifico: **Ricerca Prof. Cattaneo Annamaria**

[Nome e cognome]

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	HUSSAIN
Nome	SHABAB

OCCUPAZIONE ATTUALE

Incarico	Struttura
Dottorato di ricerca	Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
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
Bachelors Degree	BACHELOR OF SCIENCE IN BIOTECHNOLOGY	ABASYN UNIVERSITY ISLAMABAD, PAKISTAN	2019

ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città



LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
ENGLISH	C2
ITALIAN	A2

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2022-24	FULLY FUNDED SCHOLARSHIP FOR PHD , UNIVERSITY OF MESSINA, ITALY
2016	AWARD IN POSTER PRESENTATION, PAKISTAN ACADEMY OF SCIENCES PAKISTAN
2015	FULLY FUNDED SCHOLARSHIP FOR BACHELORS STUDIES, ABASYN UNIVERSITY ISLAMABAD, PAKISTAN

ATTIVITÀ DI FORMAZIONE O DI RICERCA

descrizione dell'attività
1- 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)
2- Addition of natural antimicrobial and antioxidant agents to the conventional feed production line (2024)
3- Observation of toxicological effects of microplastics on zebra fish embryo (2024)
4- Degradation rate of microplastics from face masks under artificial sea water (2024)
5- Bio-Surveillance of polio virus from waste water from KPK, Bannu Pakistan (2022)
6- Comparative and Synergistic Anti-oxidative Studies of the Extracts from Ocimum sanctum and Mentha (2018)
7- Bioethanol production from sugar cane bagasse by adding bacillus cereus and Zymomonas bacteria (2016)

ATTIVITÀ PROGETTUALE

Anno	Progetto
2024	MARIE CURIE SECONDMENT RESEARCHER, NATIONAL TECHNICAL UNIVERSITY OF ATHENS, GREECE Involved 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.
2024	Lab Ambiente Messina, Italy Performed Six months internship at Lab Ambiente, where I was involved in a project focused on analyzing water, waste, and microbiological samples. I gained hands-on experience in preparing samples for various analytical techniques, preparing samples for Gas Chromatography analysis and sample preparation for Fourier Transform Infrared Spectroscopy (FTIR). The project required careful handling and preparation of environmental samples to ensure accurate results.
2023	Visiting Researcher at Ruder Boskovic Institute Zagreb, Croatia 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.
2022	Assistant Researcher at Virology Lab Comsats university Islamabad, Pakistan Department of Biosciences and Molecular Virology Lab, I was actively involved in a Polio surveillance 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
2021	Internship at Laboratory of Virology National Institute of Health Islamabad, Pakistan During internship 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 environmental surveillance studies, their analysis with PCR and genome Sequencing.



2018	Lab Assistant at Maroof International Hospital Islamabad Laboratory Gained hands on experience in microbiology section of labortory such as culture and sensitivity, gram staining, and blood culture analysis to identify and analyze bacterial infections.
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CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
2024	INTERNATIONAL CONFERENCE MICRO 2024, Lanzarote, Spain	Spain
2024	HEALTH AND SAFETY IN THE WORKPLACE TRAINING MESSINA	Italy
2023	Discipline on animal protection used for scientific purposes (seminar)	Italy
2023	The immune system of Dicentrarchus labrax (seminar)	Italy
2023	The safety of clinical trials (seminar)	Italy
2023	Impact of anthropogenic disturbance on Marine Ecosystem confernece	Italy
2022	Proposal Writing in the EIC path finder Program (Seminar)	Italy
2022	Glucocorticoids in inflammation and immune response: role of GILZ (Seminar)	Italy
2022	Systematic reviews and meta-analyses: theory and clinical applications	Italy
2022	Proposal writing on Piller II Health and Climate (seminar)	Italy
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)	Pakistan

PUBBLICAZIONI

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



Articoli su riviste

1. Kulsoom, K.; Ali, W.; Saba, Z.; Hussain, S.; Zahra, S.; Irshad, M.; et al. Revealing Melatonin's Mysteries: Receptors, Signaling Pathways, and Therapeutics Applications. *Hormone and Metabolic Research* **2024**, 56(06), 405-418. doi:10.1055/a-2226-3971.
2. Hussain, S.; Kazmi, S. A. A.; Zahra, S.; Laiba Mariyam; Ashraf, R.; Hussain, S. B.; et al. Comparative and Synergistic Anti-Oxidative Studies of the Extracts from Ocimum Sanctum and Mentha Piperita. **2023**. doi:10.5281/ZENODO.7754020.
4. Hussain, S.; Bostan, N.; Hussain, S.; Zahra, S.; Mahfoudhi, A. Surveillance of Wastewater Bodies from Bannu, Khyber Pakhtunkhwa, Pakistan for Poliovirus. *BioScientific Review* **2023**, 5(3), 64-82. doi:10.32350/bsr.53.07.
4. Faizan, M.; Fatima, M.; Shams, F.; Ibrahim, M.; Hussain, S.; Sabir, K.; et al. Plant Extract Mediated Biogenic Synthesis and Characterization of Nickel Oxide Nanoparticles and its Environmental and Antibacterial Applications. *Journal of Chemistry and Environment* **2023**, 2(2), 109-121. doi:10.56946/jce.v2i2.280.
5. Zahra, S.; Hussain, S. B.; Raza Faqeer Muhammad; Shabab Hussain; Nokhaiz Irshad; Abbas, N. Extraction and purification of protein from orange seeds. **2022**. doi:10.5281/ZENODO.7264093.
6. Shahid, F.; Shahid, R.; Waseem, T.; Hussain, S. Flora of Pakistan: An ethnopharmacological perspective. *Journal of Shifa Tameer-e-Millat University* **2020**, 3(1), 42-48. doi:10.32593/jstmu/Vol3.Iss1.79.

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, 28/10/2024**