UNIVERSITÀ DEGLI STUDI DI MILANO

Curriculum vitae

AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO **COD. ID: 6718**

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 per gli Alimenti, la Nutrizione e l'Ambiente dell'Università degli Studi di Milano**

Responsabile scientifico: **Prof. Iametti Stefania**

[Nome e cognome]

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	**MONDAL**
Nome	**SUBHOSHMITA**

OCCUPAZIONE ATTUALE

Incarico	**Struttura**
Postdoctoral fellow	**Department of Food, Environmental and Nutritional Sciences** **University of Milan, Italy**

ISTRUZIONE E FORMAZIONE

Titolo	**Corso di studi**	**Università**	**anno conseguimento titolo**
Bachelor degree	**Bachelor of Science in Biotechnology**	**Utkal University, Bhubaneswar, India**	**26 MARCH, 2011**
Laurea Magistrale o equivalente	**Master of Science in Life Science**	**National Institute of Technology, Rourkela, India**	**13 JANUARY, 2013**
Specializzazione	-	-	-
Dottorato Di Ricerca	**Microbiology, Bioprocess Engineering, Membrane technology**	**Jadavpur University, Kolkata, India**	**16 DECEMBER, 2020**
Master	-	-	-
Diploma Di Specializzazione Medica	-	-	-
Diploma Di Specializzazione Europea	-	-	-

Altro	-	-	-

ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città
NA	NA	NA

LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
English	**Speak, Read, Write**

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2014-2019	University Grant Commission, Govt. of India for PhD
2015-2016	Hungarian State Board Scholarship for Visiting researcher

ATTIVITÀ DI FORMAZIONE O DI RICERCA

descrizione dell'attività

WORKSHOPS

• 5days Hands on training on Molecular Biotechnology and Bioinformatics. International Centre for stem cells, cancer and biotechnology, Pune, India.2014

• Short-term Training Program on Computational Systems Biology. AICTE, DBT and Indian Institute of Technology (Madras, India)

• 5 days Short-term course on Application of MATLAB in Bioengineering, Indian Institute of Technology (Indore, India)

ANALYTICAL AND TECHNICAL SKILLS

- **Microbiology laboratory techniques-**
  - **Inoculating agar plates.**
  - **Inoculating broths.**
  - **Using a pipette aseptically.**
  - **Using different sorts of hoods.**
  - **Serial dilutions, plate count, biochemical tests**
  - **Growth media.**
  - **Growth on selective media.**
  - **Isolating an organism from the environment**
- **PCR, HPLC, GC-MS, FESEM, TLC, FTIR, Gel electrophoresis**
- **Spectrophotometer**
- **Membrane separation techniques**
- **Protein purification, Enzyme assay**

- **Protein & gene expression - Fluorescent tagging**
- **Flow cytometry**
- **X-ray diffraction**
- **Inductively coupled plasma - MS**
- **Bioprocess technology-5L Biofermenter (Lab scale)**
- **ELISA and blotting techniques**
- **Bioinformatic analysis: PyMol, Chimera, Ligplot+, Cytospace**
- **Analytical Softwares : Design Expert, SuperPro Designer**

ATTIVITÀ PROGETTUALE

Anno	Progetto
2023-2024	Appointed as Postdoctoral fellow for 17months at Department of Food, Environmental and Nutritional sciences, University of Milan, Italy - The Heavy Metal Bio-recovery and Valorization (HMBV) using heterophilic bacteria (Funded by Fondazione Cariplo)
2015-2016	Visiting researcher at Department of Microbiology & Food Engineering, Corvinus University of Budapest (HUNGARY)
2012-2013	Appointed as Project fellow at Department of Chemical Engineering, Jadavpur University, Kolkata (India) - Production and purification of beta-galactosidase from milk whey-based lactic acid bacteria using fermentation and membrane based separation technology (Funded by UGC Govt.of India)

TITOLARITÀ DI BREVETTI

Brevetto
NA

CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
2024	Underlying reactions to reduce hexavalent chromium using Rhodococcus qingshengii	V AISSA#UNDER40 CONFERENCE 2024. Florence, Italy
2024	MICROPOROUS MICROCARRIER BIOFILM FOR COPPER REMOVAL FROM INDUSTRIAL WASTEWATERS	7th international Symposium on Biosorption and Biodegradation/Bioremediation - BioBio 2024. Prague, Czech republic
2024	REDUCTION OF HEXAVALENT CHROMIUM AND DETECTION OF ENZYMATIC ACTIVITY IN RHODOCOCCUS QINGSHENGII STRAIN SC26	7th international Symposium on Biosorption and Biodegradation/Bioremediation - BioBio 2024. Prague, Czech republic
2023	Passive biosorption and enzymatic reduction in Serratia and Rhodococcus strains involved in Nickel, Copper and Chromium removal from wastewaters	Microbial diversity 2023, Parma, Italy

2018	Extraction of Chitinase from entomopathogenic fungi (Beauveria bassiana) with multistage Membrane filtration	XXIX Interamerican Congress of Chemical Engineering Incorporating the 68th Canadian Chemical Engineering Conference, Toronto, Canada
2017	Dynamics of biopesticide activity of Beauveria bassiana with enriched chitinase using a green route	5th Bioprocessing India, Indian Institute of Technology, Guwahati, India
2016	Oral communication – funded by Visegrad fund	Membrane conference PERMEA, oragnized by European Membrane Society, Prague, Czech Republic
2015	Study of growth dynamics and media optimization using Response surface methodology of entomopathogenic fungi,Beauveria bassiana	International conference on Emerging Trends in Biotechnology, Jawaharlal Nehru University, New Delhi, India
2014	Studies on isolation and characterization of entomopathogenic fungi, Beauveria bassiana from tea garden soil	National Seminar on Current Prespectives of Fungi in Health care and Environment, Bangalore University, India

PUBBLICAZIONI

Libri
Signalling of Rhizosphere Microbiomes: Benign and Malign Borders. In: Arora, N.K., Bouizgarne, B.(Eds.) Microbial BioTechnology for Sus- tainable Agriculture Volume 1. Microorganisms for Sustainability, vol 33. Springer, Singapore (2022), doi:10.1007/978-981-16-4843-4 7
A pipeline for assessment of pathogenic load in the envi- ronment using microbiome analysis. In Microbial Metatranscriptomics Belowground, Nath, M., Bhatt, D., Bhargava, P., Choudhary, D.K. (Eds.) Springer Nature Singapore (2021), doi:10.1007/978-981-15-9758-9
The Bull Effect of Endophytic Fungi: An Approach with Quorum Sensing. In: Singh B. (eds) Advances in Endophytic Fungal Research. Fungal Biology. Springer, Cham (2019). doi:10.1007/978-3-030-03589-1 8

Articoli su riviste
Partial refinement of fungal chitinase (Beauveria bassiana) with multistage membrane filtration (2019), Acta Alimentaria, 43 (3), 277-287. doi:https://doi.org/10.1556/066.2019.48.3.1
Kinetics of en- riched chitinase as extracellular metabolite in Beauveria bassiana (2019), Microbiology and Biotechnology Letters, 47(1), 96-104. doi:https://doi.org/10.4014/mbl.1802.02011
Gates for Conversation in Microbes (2018), Neuroquantology, 16(8), 1-8. doi:http://dx.doi.org/10.14704/nq.2018.16.8.1128
Strain-specific identification of Beauveria bassiana isolated from a novel habitat, using rDNA-based sequence analogy (2018), Egyptian Journal of Biological Pest Control, 28(1), 1-8. doi:https://doi.org/10.1186/s41938-018-0033-4
Biochemical activities of lactose-derived prebiotics—A review (2017), Acta Alimentaria, 46(4), 449-456. doi:https://doi.org/10.1556/066.2017.46.4.7

Studies on isolation, optimization and bioprocess engineering behaviour of entomopathogenic fungi, Beauveria bassiana (2017), Indian Chemical Engineer, 59(1), 41-56. doi:https://doi.org/10.1080/00194506.2015.1075439
Conversation game: talking bacteria (2016), Journal of cell communication and signaling, 10(4), 331-335. doi:10.1007/s12079-016-0333-y
Journey of enzymes in en- tomopathogenic fungi (2016), Pacific Science Review A: Natural Science and Engineering, 18(2), 85-99. doi: https://doi.org/10.1016/j.psra.2016.10.001
Synthesis and functionality of proteinacious nutraceuticals from casein whey—A clean and safe route of valorization of dairy waste (2015), Chemical Engineer- ing Research and Design, 97, 192-207. doi:https://doi.org/10.1016/j.cherd.2015.03.017
Production, purification, characterization, immobilization, and application of ß- galactosidase: a review (2014), Asia-Pacific Journal of Chemical Engineering, 9(3), 330-348. doi:https://doi.org/10.1002/apj.1801

Atti di convegni
NA

ALTRE INFORMAZIONI

The present research grant contract finishes on 31/07/2024

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: MILAN, 30/06/2024