



Jishnu Sarathi Deb

Passport: T3362852 **Residence permit:** 001532481 **Nationality:** Indian **Date of birth:** 24/10/1996 **Gender:** Male **Phone:** ☎ (+91) 204561228 (Work) ☎ (+91) 7595925695 (Home) ☎ **Email address:** deb.jishnu.sarathi@o365.u-szeged.hu ☎ **Email address:** deb.jishnu@brc.hu ☎ **Email address:** jishnu.sarathideb.mtbt25@heritageit.edu.in ☎ **Email address:** jishnusarathi@gmail.com ☎ **Whatsapp Messenger:** +36-204561228 **LinkedIn:** https://www.linkedin.com/in/jishnu-sarathi-deb-016844214?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app **Address:** 47, BOSE PUKUR ROAD, KASBA, South Kolkata, 700042, Kolkata, India (Home) **Address:** Budapesti Ut 7, 6728, Szeged, Hungary (Work)

EDUCATION & TRAINING

PhD in Embryonic and Induced Pluripotent Stem Cell Research.

HUN-REN BRC, European Union Centre of Excellence, University of Szeged. [01/09/2025 - Current]

City: Szeged | **Country:** Hungary

Website: <https://www.brc.hu/hu> | **Field(s) of study:** Translational Health Research, Stem Cell Biology: | **Level in EQF:** 8

Reprogramming PBMC to create hi-PSC,
Gastruloid Differentiation, RNA isolation, qRT-PCR, Agarose Gel Electrophoresis, and Immunocytochemistry.
Confocal Microscopy, Western Blotting, Alpha fold2.
Good Laboratory Practice.

MTech- Biotechnology

Heritage Institute of Technology, Maulana Abul Kalam Azad University of Technology [31/08/2023 - 30/07/2025]

City: Kolkata | **Country:** India

Website: <https://www.heritageit.edu/> | **Field(s) of study:** Biotechnology: | **Final grade:** 9.78 | **Level in EQF:** 7 |

Thesis: Examining the Role of Vitamin A & Vitamin E in the Prevention of Asthmatic Lung Damage.

MSc Biotechnology

TECHNO INDIA UNIVERSITY [10/08/2017 - 24/07/2019]

City: Kolkata | **Country:** India

Website: <https://www.technoindiauniversity.ac.in/> | **Field(s) of study:** Biotechnology: | **Final grade:** 8.92 | **Level in EQF:** 7 | **Thesis:** Isolation of Chromium resistance bacteria from soil sample of River Ganga.

1. Agarose Gel Electrophoresis.
2. Isolation of genomic DNA
3. Microbial Spread plate, streak plate.
4. Antibiotic resistance study by the disk diffusion assay. Several biochemical tests: Voges Proskauer Test, Starch hydrolysis test, etc.

BSc(Hons.) Zoology

Maulana Azad College, UNIVERSITY OF CALCUTTA [30/08/2014 - 30/07/2017]



europass

City: Kolkata | **Country:** India

Website: <https://maulanaazadcollegekolkata.ac.in/> | **Field(s) of study:** Zoology | **Final grade:** 63% | **Level in EQF:** 6

Cell Biology, Biochemistry, Molecular Biology, Immunology and Developmental Biology,

WORK EXPERIENCE

Dept. of Biotechnology & GCGB, Univ. of Calcutta - India, Kolkata

Email: kpbcg@caluniv.ac.in

Project/ Research Assistant

[10/07/2024 - 30/05/2025]

- **Basic calculations of Biochemistry, SDS-PAGE, Western Blotting, and the ELISA technique.** UV Vis Spectrophotometer use.
- Chemi-Doc machine use.
- Asthma induction in mice by ova-albumin. Intraperitoneal (IP) injection.
- **BALF collection and processing**
- **Tissue Lysisby RIPA buffer.**
- Lipid peroxidation assay.
- Nitroblue tetrazolium assay.
- **Histological staining: Alcianblue staining procedure. Animal(Mice) Handling.**
- **Use of Biorender.com, Microsoft Excel, Powerpoint.**

Department of Biotechnology, TECHNO INDIA UNIVERSITY - India, Kolkata

Teaching assistant

[01/09/2018 - 28/06/2019]

Taking Practical courses- DNA Isolation, Agarose Gel Electrophoresis.

SKILLS

think analytically | publish academic research | develop strategy to solve problems | scientific research methodology | use microsoft office | work in an international environment | diagnostic immunology techniques | SDS-PAGE | western blotting | hiPSC culture maintenance and differentiation

HONOURS AND AWARDS

[16/06/2025] Tempus Public Foundation

Stipendium Hungaricum Fellowship for Doctoral Research

[16/02/2025] Indian Institute of Technology, Roorkee

Qualifying GATE 2025 Biotechnology(AIR 1688) & XL

[10/02/2024] Indian Institute of Science, Bengaluru

Qualifying GATE 2024 Biotechnology(BT) & Life Science(XL)

PUBLICATIONS

[2021]

ISOLATION OF CHROMIUM RESISTANCE BACTERIA FROM LOAM SOIL SAMPLE OF RIVER GANGA.

Journal Name: World Journal of Pharmaceutical and Life Sciences | **Volume, Issue and Pages:** vol.7, Issue 9,

145-157. ISSN 2454-2229.

Wjpls,2021, vol.7, Issue 9, 145-157. ISSN 2454-2229.

[2023]

APPLE SEEDS: PHYTOCHEMISTRY, MEDICINAL PROPERTY AND TOXICOLOGY.

Journal Name: INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH. | **Volume, Issue and**

Pages: Vol. 14(3): 1038-1045.

Doi- 10.13040/IJPSR.0975-8232.14(3). 1038-45.

CERTIFICATIONS

[University of Calcutta, Workshop DBT BUILDER CU, 21/02/2025]

Two Day Hands-on Workshop on HPLC.

[University of Calcutta, 30/08/2024]

Molecular diagnostics techniques: Part I – PCR techniques.

[CHROMOGEN at Kolkata Biotech Park, Salt Lake, Kolkata, 19/12/2023]

Workshop on "Application of HPTLC on Herbal Fingerprinting"

[JAMIA HAMDARD PMU, NEW DELHI, 10/01/2023]

DST-STUTI 7 days training Program- " Technological advancement in Pharmaceutical & Health Care Research" ·The idea of Cell culture, Cryopreservation.

·Enriched with the concept of Microbial Biopolymer.

·The Knowledge of Artificial Intelligence in Healthcare.

·The idea of 'Long QT syndrome - a sensitive prediction for drug safety'.

·The concept of "Tuning of Cardiomyocyte, Survival and Death Pathways: Involvement of Cardiac Transcription Factors".

[SRISTI AGRO BIOTECH Pvt. Ltd.]

Plant Tissue culture training Plant Tissue Culture Work

Mode of Learning: Research-Lab based

CONFERENCES & SEMINARS

[04/01/2023 - 05/01/2023] Kolkata

DST Govt. of West Bengal 5th Regional Science & Technology Congress Participated as a Co-author of the paper entitled "Phytochemical & nutritional analysis of metabolites exhibiting therapeutic potential obtained from the traditional medicinal plant Centella asiatica".

A collaborative work with TIU Lab.

LANGUAGE SKILLS

Mother tongue(s): Bengali

English

LISTENING: B2 READING: B2 WRITING: B2

SPOKEN PRODUCTION: B2

SPOKEN INTERACTION: B2

HOBBIES AND INTERESTS

Diploma in Fine Arts

Playing Chess, Former GB member, NEXUS Welfare Society, Reg. under Govt. of WB.

RECOMMENDATIONS

Name: Prof. Dr. Melinda Katalin Purity | Doctoral Thesis Supervisor

Senior research associate, Institute of Genetics, HUN-REN Biological Research Center Szeged.

Former Postdoctoral Research Associate, Department of Molecular Genetics, Albert Einstein College of Medicine, Bronx, USA

Email: piracy@brc.hu

Name: Prof.(Dr.) Koustubh Panda. | Professor, Department of Biotechnology, University of Calcutta, MTech Thesis Supervisor

Professor, Department of Biotechnology, University of Calcutta, Kolkata, INDIA.

Former Assistant Professor: Department of Immunology & Pathobiology, Lerner Research Institute, Cleveland Clinic Foundation, USA.

Email: kpbcg@caluniv.ac.in

Name: Prof. (Dr.) Nandan Kumar Jana. | Associate Professor HIT-K, MTech Thesis Supervisor.

Associate Professor, Department of Biotechnology, Heritage Institute of Technology, Kolkata, INDIA.

PhD from BOSE INSTITUTE.

Post Doc. (UCONN Health-Centre, Farmington, CT, and UNC at Chapel Hill, NC, USA)

Email: nandankumar.jana@heritageit.edu

Name: Prof. (Dr.) Malavika Bhattacharya. | Associate Professor, TIU

Associate Professor, Former Head of the Dept. Department of Biotechnology,

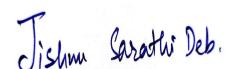
Techno India University-West Bengal

Former PhD fellow in the National Institute of Immunology, INDIA.

Former Post Doc. fellow of University of Pennsylvania, USA.

Email: malavika.b@technoindiaeducation.com

I hereby declare that the information furnished above is true to the best of my knowledge and I am also confident of my ability to work in a team.



Szeged, Hungary, 01/01/2026

Jishnu Sarathi Deb