

MANOJ KUMAR JANA (BS,MS)
RESEARCH ASSISTANT

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Experience

24/09/2024 – Current	All India Institute Of Medical Science (AIIMS - Delhi) Research assistant PI: Achal Kumar Srivastava <i>“A Population-based Prospective Cohort Study to Unravel the Causes of Stroke and Cognitive Decline and immune cell distribution working in 7900 patient blood samples”</i>
06/06/2024 – 28/09/2024	National Defense Medical Center R.O.C. (Taiwan) (Remote) Remote Student Intern PI: Vincent Ming-Hsien <i>“Research Intern Immunoproteomics and Bio informatics for Effective Vaccine project”</i>
29/03/2024 – Current	University of Bern, DBMR, (Bern, Switzerland) (Remote) Remote Student Intern PI: Sudip Das <i>“Differential inflammatory potential of human lung microbiota drives immune balance in macrophages”</i>
13/04/2024 – 11/09/2024	All India Institute Of Medical Science (AIIMS - Delhi) Research Intern PI: Ashok Sharma <i>“Impact of Non-steroidal anti-inflammatory Drug Diclofenac on POTE expression and ovarian cancer phenotype”</i>
03/01/2024 – 11/04/2024	All India Institute Of Medical Science (AIIMS - Delhi) Research Intern PI: Bimal Prasad Jit Master's thesis on <i>“Elucidation of POTE (Prostate, Ovary, Testis and Embryo) Protein expression by in silico and In vitro Approach in Ovarian Cancer”</i>
16/11/2023 – 28/02/2024	National Institute of Immunology (NII) Research Intern Grop Prject Research Intern on <i>“Exploring alteration in cognitive behavior in Toxoplasma gondii infected mice”</i>
01/06/2021 – 30/06/2022	MSV Laboratories Pvt. Ltd. DST Lab Research and development associate PI: Tanushree Mandal Research Topic - <i>“Associate on Bio-instrumentation and Bio-fertilizer Isolation and production of liquid nitrogen fixer bio- fertilizer and growth effects on chickpea”</i>

EDUCATION

09/2022 – 04/2024	KIIT University Master of Science Field(s) of study: Biotechnology, immunology Final grade: 7.59 Thesis: Elucidation of POTE (Prostate, Ovary, Testis and Embryo) Protein expression by in silico and In vitro Approach in Ovarian Cancer”
06/2019 – 10/08/2022	Vidyasagar University Bachelor of Science (Honours) Biotechnology, chemistry, and immunology, Final grade: 8.52 Thesis: “Isolation and production of liquid nitrogen fixer bio-fertilizer and growth effects on chickpea”

WORKSHOP AND CONFERENCES:

May 2023	One-month International workshop on Bio-informatics for Drug Discovery (Decode Life)
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June 2023 (EMBL-EBI)	EMBL one joint workshop on GENOME INFORMATICS, (5TH EDITION)
Aug 2022 Rourkela	Workshop on molecular and genomic techniques in cancer studies from NIT
Nov 2022 Bio-Sciences)	workshop on Tools and techniques in molecular biology and microbiology (Heredity
Mar 2020 RUSA 2.0	National seminar on ANIMAL RESEARCH TODAY: BASIC AND APPLIED ARENA

EXPERIMENTAL KNOWLEDGE AND SKILLS

Immunology:- Flow cytometry of human, mouse and bacterial cells. Instrumentation: Flow cytometer instruments such as CytoFLEX, Novocyte and cell sorters like BD FACSAria. Immuno histochemistry, Flow cytometry, Fluorescence microscopy, ELISA, Soxhlet apparatus used for liquid-solid extraction, ABSL2 Facility Access & Training, Histopathology, Cytochemistry,

Molecular Biology:- RT-PCR, Western Blot, Animal cell culture of Cancer cells, Expression Profile of Genes in Human Cancer, Animal cell culture of Cancer cells Expression Profile of Genes in human cancer, Molecular study of oncogenesis events in cancer, Molecular genetics techniques for cancer.

Microbiology:- MPN Testing, Basic microbiology, Pure culture isolation, Simple Stain, Gram Stain, Spore Stain, Acid-Fast Stain, flagella Stain, Capsule Stain, Microscopy, *in vivo* Imaging.

Cell Biology:- Mice handling and dissection, Different Routes of Administration, Tissue Harvesting, Tissue Processing, Tissue molding, Tissue Sectioning, Tissue Staining (H&E, LFB, IHC & Western Blot),

Bio Informatics:- R Programming Language, Python, RNASeq Analysis, linux, Molecular docking,

AWARDS

4/3/2024 (2024)	American Society for Microbiology Future Leaders Mentorship Fellowship (FLMF)
20/03/2024	Volunteering Award received from 8 th World Cancer congress - 2024 New Delhi, India
20/03/2024	Received 'Bharat Gaurav Puraskar Award KIK Foundation for immunology contribution.

SCIENTIFIC SOCIETIES AND COLLABORATIVE NETWORKS

Microbiology Society India (1996)
British Society for Immunology
American Society for Microbiology
Indian Immunology Society
British Society for Gene and Cell Therapy (BSGCT)
The Antibody Society
AACR Member

LANGUAGES

Bengali, English, Hindi, Odia,

Leadership

- Founded and established JUST ONE STEP FOUNDATION a non-governmental organization (NGO) (19/06/2019) President
- Part of the National Service Scheme (NSS), Gov. of India for Volunteering in Social work and community service

Extra-Curricular Activities

Farming, Fishing, Swimming, Guitar, Cooking all types of Indian cuisine, Football, participated in inter-school, club-Bidhan Chandra Sriti Sangho Pathagar

Publications

1. Koustuv Maity, Sirsendu Bikash Maiti, and M. K. Jana, "ISOLATION AND PRODUCTION OF LIQUID NITROGEN FIXER BIOFERTILIZER AND GROWTH EFFECTS ON CHICKPEA (CICER ARIETINUM)," May 01, 2022. doi: <https://doi.org/10.20959/wjpps20225-21847>. Available:

https://www.researchgate.net/publication/360297279_ISOLATION_AND_PRODUCTION_OF_LIQUID_NITROGEN_FIXER_BIOFERTILIZER_AND_GROWTH_EFFECTS_ON_CHICKPEA_CICER_ARIETINUM

2. Manoj Kumar Jana, Ming-Hsien Chiang “IIPSeries - Conferences & Edited Books,” Iipseries.org, 2024. Available: <https://www.iipseries.org/viewpaper.php?pid=6421&pt=monoclonal-antibodies-a-promising-weapon-against-the-silent-pan-demic-of-multidrug-resistant-bacteria>.

3. S. Qazi, R. Ali, M. K. Jana, B. P. Jit, N. Gurung, and A. Sharma, “Deep learning in clinical genomics-based cancer diagnosis,” *Elsevier eBooks*, pp. 245–259, Nov. 2024, doi: <https://doi.org/10.1016/b978-0-443-27574-6.00014-x>. Available: <https://www.sciencedirect.com/science/article/abs/pii/B978044327574600014X>.

References

1. Dr. Sudip Das

Staff Scientist and Research Manager

Translational Microbiome Data Integration

Technische Universität München

Germany.

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2. Prof. Dr. Naresh Chandra Bal (FRSB)

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3. Prof. Dr. Amrita Mishra

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