

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 associate, 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
06/06/2024 – 28/09/2024	National Defense Medical Center R.O.C. (Taiwan) (Remote) Research Intern (Taiwan) City: Taipei Country: Taiwan Remote Research Intern Immunoproteomics and Bio informatics for Effective Vaccine project
29/03/2024 – 02/08/2024	University of Bern, DBMR, (Bern, Switzerland) (Remote) Research Intern, City: Bern Country: Switzerland, performing statistical analysis to create a physiologically relevant human lung macrophage model, which reveals the differential innate immune landscape driven by lung macrobiotics.
13/04/2024 – 11/09/2024	All India Institute Of Medical Science (AIIMS - Delhi) Research Intern (AIIMS - Delhi, Country: India), To study the impact of Non-steroidal anti-inflammatory Drug Diclofenac on POTE expression and ovarian cancer phenotype
03/01/2024 – 11/04/2024	All India Institute Of Medical Science (AIIMS - Delhi) Research Intern (AIIMS - Delhi, Country: India), Master's thesis on Elucidation of POTE (Prostate, Ovary, Testis and Embryo) Protein expression by in silico and In vitro Approach in Ovarian Cancer
16/11/2023 – 28/02/2024	National Institute of Immunology (NII) Research Intern City: Delhi, Country: India Country: India, Research Intern on “Exploring alteration in cognitive behavior in Toxoplasma gondii infected mice
01/06/2021 – 30/06/2022	MSV Laboratories Pvt. Ltd. DST Lab Research and development associate City: West Midnapore Country: India Research Topic - Associate on Bio-instrumentation and Bio-fertilizer Isolation and production of liquid nitrogen fixer bio- fertilizer and growth effects on chickpea.

EDUCATION

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
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

WORKSHOP AND CONFERENCES:

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

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 □ American Society for Microbiology Future Leaders Mentorship Fellowship (FLMF) (2024)
20/03/2024 Volunteering Award resived from 8th World Cancer congress - 2024 New Delhi, India
20/03/2024 Revised 'Bharat Gaurav Puraskar Award KIK Foundation

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

- . Isolation And Production Of Liquid Nitrogen Fixer Bio fertilizer And Growth Effects On Chickpea (Cicer Arietinum), Doi:10.20959/Wjpps20225-21847, World Journal Of Pharmacy And Pharmaceutical Sciences, Issn 2278 – 4357
- . Book chapter “Monoclonal Antibodies: A Promising Weapon Against the Silent Pan-demic of Multi drug-Resistant Bacteria” Manoj Kumar Jana, Ming-Hsien Chiang <https://www.doi.org/10.58532/nbennurmmch23>
- . Chapter 11 - Deep learning in clinical genomics-based cancer diagnosis <https://doi.org/10.1016/B978-0-443-27574-6.00014-X>

References

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

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