Gaurav Verma

Postdoctoral Fellow

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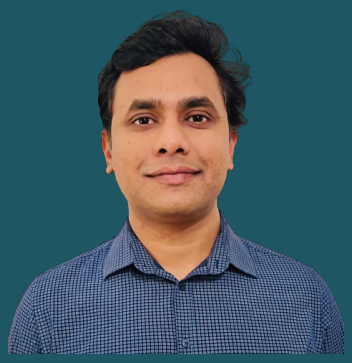

Profile

Experienced research assistant with working knowledge in complex disorders of all phases of bench research and an excellent grasp of research conduct, to include experiment design and execution, laboratory management, compliance monitoring, and research documentation. Holds a Ph.D. in Biological Sciences with over thirteen papers published during the tenure of PhD and Postdoctoral studies.

Experiences and Educational Background

2017-Till Now

Research Assistant, Mitochondrial-Medicine Unit, Biomedical Centre, Lund University, Sweden.

"Understanding Mitochondrial Physiology, Metabolism in Diabetes and Complex Disorder".

2016-2017

Postdoctoral Fellow, Centre for Experimental Medicines, Queen's University, Belfast, United Kingdom

"Role of Inflammation and Gut-Microbiota in Diabetic Retinopathy and Preeclampsia".

2015-2016

Research Associate, School of Biotechnology, Jawaharlal University, New Delhi, India.

"Worked on the Mitochondrial Function and Anti-Diabetic drug Development".

2008-2014

Ph.D. (Biological Sciences), CSIR-Institute of Genomics and Integrative Biology (IGIB), New Delhi, India

"Study of the role of MAP-Kinase in inflammation mediated pancreatic cell death".

2005-2007

M.Sc. Biotechnology, H.N.B Garhwal University, Uttarakhand, India.

Dissertation: Institute of Nuclear Medicine and Allied Sciences, (DRDO), New Delhi, India.

2002-2005

B.Sc. Biotechnology, Bundelkhand University, Jhansi, India.

Publications (Articles and Book Chapters)

Peer Review Journals

1. *Journal of Biological chemistry.* 2022. 298(3) 101692 .**First Author**
2. *Journal of Diabetes Research.* 2020, 7814628. **Corresponding Author**
3. *Journal of Biological chemistry.* 2020.295 (45):15245-15252. **Co-Author**
4. *Developmental and Comparative Immunology*. 2020, 114, 103800. **Co-Author**
5. *Cell Death Discovery.* 2018, 4, Article number: 30. **Co-Author**
6. *BBA-gene regulatory mechanism*. 2014, 1839: 334–343. **Co-Author**
7. *Molecular Biology of the Cell*. 2013; 24:2058-71. **First Author**
8. *Developmental and Comparative Immunology.* 2012, 37:323-33. **Co-Author**
9. *International Journal of Biochemistry & Cell Biology*. 2012, 44:113-22. **Co-Author**
10. *Cancer Letters.* 2012, 320:86-95. **First Author**
11. *Journal of Cellular Physiology*. 2011, 227:1791-5. **First Author**
12. *Molecular and Cellular Endocrinology*. 2011, 332:125-33. **Co-Author**
13. *Apoptosis*. 2010, 15: 864-76. **First Author**

Book Chapters

1. *Elsevier*. 2019, Volume 18, 1st Edition. ISBN 9780128171936. **First Author**
2. *Springer*. ISBN 978-3-030-36129-7. **First Author**
3. *Elsevier Science.* 2020. ISBN: 0128219726, 9780128219720. **Co-Author**
4. *Springer Nature* (Under Revision). **First Author**

Key Achievements

- ***Marie Curie Fellow*,** Centre for Genomic Regulation, IMPULSE Postdoc, 2015, Barcelona, Spain.
- ***Indian National Science Academy* (INSA)** Young Scientist Award, 2014 New Delhi, India.
- ***Journal of Cell Science*** Exchange Program Fellowship 2011, To visit Dr. Craig Nunemaker lab in Pancreas and Islets Core Facility, University of Virginia, USA to understand the role of Ca^{2+} signaling in β-cell physiology and diabetes.
- ***Reviewer for Journal of Diabetes, John Wiley & Sons*** Playing a critical role in ensuring the quality publication of manuscripts papers in the area of scientific expertise.
- ***Royal Physiographic Society of Lund*** travel award, 2019 to visit University of Oxford to attend 3rd Joint EASD Islet Study Group and Beta-Cell Workshop, 2019.

Technical Expertise

- **Immunological Techniques**
  - ELISA, RIA, Immunocytochemistry, Immunohistochemistry, Immunofluorescence and Immunoprecipitation.
- **Recombinant Techniques**
  - Isolation and Purification of Plasmid DNA, RNA isolation, c-DNA synthesis, Reverse Transcriptase- PCR, Next.Gen.RNA-Sequencing, High-throughput Real Time PCR and Site Directed Mutagenesis, mtDNA Sequencing using PacBio System.
- **Molecular Techniques**
  - Isolation and Purification of DNA and Protein, Gel Electrophoresis, Western Blotting, Northern Blotting, Spectroscopy, Fluorometry, Chromatographic Techniques, Confocal and Real Time Fluorescent Microscopy, Microarray, Chip-Seq, Flow Cytometry, Protein Precipitation and purification, Protein-Protein Interaction assay, Seahorse-XF Analyzers, Oroboros Respirometry, T-Scratch assay, OXPHOS analysis, Illumina Sequencing, mt.DNA sequencing on PacBio RS II platform, and NGS RNA Seq.
- **Animal Cell Culture Techniques**
  - Mouse Islet Isolation, β-cell Isolation and Culture, Stem cells culture, Maintenance of Primary and Secondary Cell Lines, Monolayer Culture, Cell Freezing and Preservation and Sub Culturing.
- **Bioinformatics**
  - UniPrtotKB for protein sequences and functional information. Dseq2, Salmon and Galaxy to analyze the NGS data.

Additional Degrees

- Research Ethics and Communication trainings course: Lund University, 2021.
- Credit course and hands on experience on toxicology and human disease
- Credit course on e-health and Zebrafish biology, Lund University 2021-2022.

Address of Corresspondence

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