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 Shaivya-Kushwaha

## Techniques Known

- **Molecular Diagnostic Techniques** (Western Blotting, RT PCR, Multiplexing, Nucleic Acid Extraction, cDNA Synthesis, Agarose gel Electrophoresis, Microarray)
- **Animal Handling** (stereotaxy, gavage feeding, intraperitoneal and intravenous injections)
- **Cell culture techniques** (in vivo, ex vivo and in vitro)
- **Bioinformatic analysis, Mass Spectrometry**
- **Microbiological techniques**
- **Immunological Techniques** (ICC, IHC, Multiplexing, ELISA, Immuno-precipitation)

## Skill Highlights

- Scientific writing and communication
- Problem solving and analysis
- Teamwork skills
- Planning and executing

## Awards & Honours

- CSIR– Junior Research Fellowship (CSIR-JRF) in Life Sciences (AIR-45)
- CSIR-NET in Life Sciences
- GATE in Life Sciences
- CSIR- Senior Research Fellowship (CSIR-SRF) in Life Sciences
- Society of Toxicology (SOT) Travel Support Award, Anaheim, California
- Department of Biotechnology (DBT-CTEP) Award

## Conferences

- 59<sup>th</sup> Annual Meeting and ToxExpo 2020 Society of Toxicology (SOT) at Anaheim, California, USA, March 15–19, 2020 (Poster Presentation)
- 4<sup>th</sup> International Toxicology Conclave at CSIR-IITR, (Poster presentation)
- 18<sup>th</sup> Indo- US workshop on Flow Cytometry in Nanomaterial Toxicology Conclave at CSIR-IITR, .

# SHAIVYA KUSHWAHA

## Senior Research Fellow

## Summary:

Experienced researcher with 7 years of expertise in life sciences seeks a career in medical writing. Skilled in scientific paper and project writing, able to communicate complex information in clear, accurate language which is a valuable asset for scientific publications, regulatory documents, and marketing materials.

## Experience

- **2019-Present : Senior Researcher** in Immunotoxicology Laboratory, CSIR-IITR, Lucknow
- **2017-2019 : Junior Researcher** in Immunotoxicology Laboratory, CSIR-IITR, Lucknow
- **Aug 2016-Dec 2016 : Teacher** in City Montessori School, Lucknow
- **Sep 2015- Jan 2016: Project Assistant** in Microbial Technology and Nematology Deptt., CSIR- Central Institute of Medicinal and Aromatic Plants, Lucknow, (UP), India.

## Education

- **2017-2022: Phd\* in Life Sciences** from CSIR, Delhi.
- **2013-2015: Masters of Science in Applied Microbiology** from Banaras Hindu University (BHU).
- **2010-2013: Bachelor of Science (Hons.) in Microbiology** from Delhi University (DU).

## Publications

- MicroRNA-129-5p-regulated microglial expression of the surface receptor CD200R1 controls neuroinflammation. **Journal of Biological Chemistry (2022)**
- Minocycline reverses developmental arsenic exposure-induced microglia activation and functional alteration in BALB/c mice. **Environmental Toxicology and Pharmacology (2022)**
- Perinatal arsenic exposure-induced sustained microglial activation leads to impaired cognitive response in BALB/c mice. **NeuroToxicology (2022)**
- Low-dose naltrexone rescues inflammation and insulin resistance associated with hyperinsulinemia. **Journal of Biological Chemistry (2020)**
- Sneaky entry of IFN-γ through arsenic-induced leaky blood-brain barrier reduces CD200 expression by microglial pro-inflammatory cytokine **Molecular Neurobiology (2018)**
- Effect of nano-particle on microglial health, **Vishvigyan Ke Naye Aayaam (2018)**
- *Trichoderma harzianum* ThU and its metabolite underscore alteration in essential oil of *Osimum basilicum* and *Osmium sanctum*, **The National Academy of Science (2016)**