

# NANDITA SINGHAL

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## **PROFILE**

Environmental Health & Safety (EHS) leader with extensive chemical management experience, specializing in hazard identification and risk assessment/mitigation. Driving compliant, high-performing operations through effective safety programs and cross-functional leadership.

## **EDUCATION**

### **Executive Master of Business Administration**

**May 2024 – Present**

New England College, Henniker, NH

**Scholarship:** Mass General Brigham Tuition Assistance

### **Master of Science in Environmental Health**

**May 2021**

Johns Hopkins Bloomberg School of Public Health (JHSPH), Baltimore, MD

**Scholarship:** Master's Tuition Scholarship

**Relevant Coursework:** Global Sustainability & Health; Social Determinants of Health; Qualitative Methods; Public Health Toxicology; Advanced Concepts in Toxicology and Physiology

### **Bachelor of Science (Research) in Biotechnology**

**May 2019**

Shiv Nadar University, Greater Noida, India

**Minor:** Chemistry

**Scholarship:** Shiv Nadar University's Merit-Based Scholarship

**Relevant Coursework:** Chemical Principles; Biochemistry; Chemical Equilibrium; Chemical Analysis Lab; Biochemistry: Role of Metals in Human Health & Diseases; Environmental Studies

## **CERTIFICATIONS**

### **OSHA-30 Certified**

**Aug 2025**

Comprehensive course on recognizing, avoiding, and preventing workplace hazards

### **Certificate in Environmental and Occupational Health**

**Sep 2019 – May 2021**

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

**Relevant Coursework:** Two terms of Principles of Environmental Health; Principles of Occupational and Environmental Hygiene

### **Certificate in Risk Sciences and Public Policy**

**Sep 2019 – May 2020**

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

**Relevant Coursework:** Risk Sciences; Risk Policy Management & Communication; Methods in Quantitative Risk Assessment; Case Studies of Risk Assessment

## **PROFESSIONAL EXPERIENCE**

### **Research Associate II**

**Mar 2024 – Present**

Department of Cardiovascular Medicine, Brigham & Women's Hospital/Harvard Medical School

- Served as EHS point-of-contact for lab operations; maintained EHS compliance readiness by standardizing procedures, documentation, and corrective actions
- Trained lab staff on chemical Safety Data Sheet (SDS) expectations and ensured adoption
- Implemented exposure control measures for hazardous chemicals (engineering/administrative controls and PPE alignment) consistent with Occupational Safety and Health Administration (OSHA) requirements
- Studied titin regulations in dilated cardiomyopathy using CRISPR edits and cultured & differentiated stem cells into cardiomyocytes

**Senior Safety Officer****Jul 2022 – Jan 2024**

OliX Pharmaceuticals, Inc., Boston, MA

- Managed chemical inventory system (data quality, tracking, documentation), reducing chemical wastage by 50% through improved tracking and documentation
- Collaborated with cross-functional teams to develop SDS management processes and maintain chemical records for 500+ chemicals in Cority
- Responsibly managed transportation of hazardous specimens locally in compliance with the U.S. Department of Transportation (DOT) regulations and internationally in accordance with the International Air Transport Association (IATA) Dangerous Goods regulations

**Research Technologist****Jun 2021 – Jul 2022**

Department of Urology, Johns Hopkins University, School of Medicine

- Established lab safety standards and conducted regular EHS compliance audits
- Validated microRNA targets by analyzing single cell RNA sequencing large datasets

**Research Assistant****Dec 2019 – May 2021**

Department of Environmental Health and Engineering, JHSPH

- Developed and executed independent toxicology studies to investigate arsenic exposure-induced changes in urothelial cells, championing green chemistry protocols
- Conducted dose-response and exposure assessment including risk characterization, mitigation and communication for heavy metals

**Teaching Assistant****Jan 2021 – Mar 2021**

Department of International Health, JHSPH

- Teaching Assistant for Environment & Health in Low- and Middle-Income Countries (LMICs) course - assessed the performance of students, including grading quizzes and assignments

**Global Health Equity Scholar****Oct 2019 – May 2020**

Johns Hopkins Alliance for a Healthier World (AHW): an alliance that promotes health equity.

- Conducted air-pollution exposure risk assessments and advised stakeholders on transitioning to safer, more sustainable solutions
- Extracted data and presented insights on transportation interventions in major cities of LMICs

**PUBLICATIONS**

Kim, Y., Kim, S. W., Saul, D., Meraj Neyazi, Schmid, M., Wakimoto, H., **Singhal, N.**, .. Seidman, J. G., Seidman, C.E. (2025). Regulation of sarcomere formation and function in the healthy heart requires a titin intronic enhancer. *Journal of Clinical Investigation*. <https://doi.org/10.1172/jci183353>

**COMMUNITY SERVICE AND LEADERSHIP EXPERIENCE****Volunteer****Oct 2019 – Dec 2019**

Baltimore Transit Equity Coalition: a coalition advocating for transport equity in Baltimore City.

- Informed community members about the environmental health hazards related to air pollution

**Volunteer****Jul 2016 – Sep 2016**

Climate Change Program, United Nations Framework Convention on Climate Change

**PROFESSIONAL DEVELOPMENT****Computing Skills:** Keynote; Tableau; Microsoft Office Suite; Adobe Creative; R and Python**EHS Trainings:** DOT; Hazardous Communication (HazCom); Cumulative Impact

Assessment: Research and Regulatory Activities at Environmental Protection Agency (EPA)

**Software and Database:** Cority; Enablon; Crystal Ball; ArcGIS