

NYBCe RESEARCHER PROFILE



VENKAT MAGUPALLI, PhD

Head, Laboratory of Molecular & Mechanistic Cell Signaling

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BACKGROUND

Degree Institutions

- Utkal University - BSc
- University of Hyderabad - MSc

Doctoral Training

- Saarland University Medical Center - PhD

Postdoctoral Training

- University of Washington
- Harvard Medical School

AREAS OF RESEARCH

- Innate Immunity
- Inflammasomes
- Cell Death
- Inflammation/Hyperinflammation
- Drug Discovery

KEY PUBLICATIONS



CONTACT

To contact the lab, email Dr. Magupalli at vmagupalli@nybc.org or the Office of Sponsored Programs at researchadmin@nybc.org.

To learn more about NYBCe patents and licensing, visit our webpage: <https://www.nybce.org/our-research/nybce-technology-discoveries/>.

NYBCe LAB DESCRIPTION

Laboratory of Molecular and Mechanistic Cell Signaling: The overarching goal of the lab is to decode the molecular and mechanistic basis of innate immune signaling in host defense, especially the regulatory mechanisms and organizing principles underlying inflammasome actions, using multi-disciplinary approaches including biochemistry, cell biology, super-resolution imaging, structural biology, and in vivo approaches.

INDUSTRY & ACADEMIC PARTNER COLLABORATIONS

- Harvard Medical School: Previously an Assistant Professor of Pediatrics
- Reviewer: *International Journal of Biology* (Canadian Centre of Science and Education), *American Journal of Immunology* (Science Publications)
- Ad hoc reviewer for Scientific Journals: *Nature Communication*, *Journal of Clinical and Cellular Immunology*, *Journal of Cell Signaling*, *Journal of Immunobiology*, *Journal of Cytokine Biology*, *Journal of Inflammation Research*, *Research and Reports in Biology*.

COLLABORATIONS OF INTEREST

- Companies or academics working on inflammasomes and inflammation including those working on targeting the inflammasome for drug development.

Current Projects:

- Supramolecular Organizing Centers (SMOCs) in Inflammation, Cell death, and Anti-tumor Immunity: Signaling and Regulatory Mechanisms
- Organ-Specific Inflammasomes: Signatures and Signaling in Inflammatory Diseases
- Mechanisms Underlying Non-canonical Inflammasome Signaling

