

Dr. Vijay Kumar
Senior Postdoctoral Researcher

Education

Education: DAV College, Panjab University, Chandigarh, India	BSc	2001	Botany, Zoology, Chemistry
Jamia Hamdard (Hamdard University), New Delhi, India	M.Sc.	2004	Toxicology
Panjab University, Chandigarh, India	Ph.D.	2009	Microbiology and Immunology
Sainte-Justine Children's Hospital, University-de Montreal, Montreal, QC, Canada	Postdoctoral Fellow	2010	Inflammatory Bowel Disease
Queen's University, Kingston, ON, Canada	Postdoctoral Fellow	2012	Inflammation and Immunity (Allergy and sepsis)
Sunnybrook Health Science Center, University of Toronto, Toronto, ON, Canada	Postdoctoral Fellow	2014	Inflammation and regeneration
University of Queensland, Brisbane, Queensland, Australia	Research Fellow	2019	Infection, Inflammation, and Immunity
University of Tennessee Health Science Center (UTHSC), Memphis, TN, USA	Postdoctoral Scholar	2022	Obesity, Inflammation, and Immunity
Louisiana State Univ.- LSU-LCMC Cancer Center, New Orleans, LA	Senior Post-Doctoral fellow	Current	Obesity, inflammation and cancer Immunology

Dr. Kumar has spent his scientific career studying the role of the immune system in the development of inflammation under infectious diseases (bacterial, pneumonia, peritonitis, and sepsis) and sterile inflammatory conditions (allergy, inflammatory bowel diseases, obesity, and urinary bladder inflammation) and using different immunomodulatory approaches to target inflammation.

Currently, he is working on immunotherapeutic targeting of solid cancers. His research is designed towards leading the discovery of molecular mechanisms of obesity-induced inflammation to reduce cancer. Given the potential role of inflammatory and tumor-associated macrophages (TAMs) in different solid cancers, including prostate cancer, Dr. Kumar has embraced the goal of deciphering obesity-associated changes in the bone marrow monocytes/macrophages, including inflammatory and tissue invasive monocytes/macrophage generation. He previously developed and worked on different mouse models, including pneumonia, peritonitis, sepsis, allergy, cystitis, and obesity.

Professional Memberships & Societies

2016-Present Society for Leukocyte Biology

2012-present The American Association of Immunologist (AAI)