

Contact

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vasantmuralidharan (LinkedIn)

muralidharanlab.org (Personal)

Top Skills

Parasitology

Biophysics

Molecular Biology

Languages

English

Hindi

Marathi

Honors-Awards

Basil O'Connor Starter Scholar
Research Award

Publications

Plasmodium falciparum heat shock protein 110 stabilizes the asparagine repeat-rich parasite proteome during malarial fevers

PfClpC is an essential Clp chaperone required for plastid integrity and Clp protease stability in Plasmodium falciparum

Tuning protein autoinhibition by domain destabilization

Plasmepsin V licenses Plasmodium proteins for export into the host erythrocyte

HSP101/PTEX mediates export of diverse malaria effector proteins into the host erythrocyte

Vasant Muralidharan

Assistant Professor, University of Georgia

Athens, Georgia

Summary

Parasitologist with a diverse background in protein chemistry, molecular biology, mass spectrometry, fluorescence spectroscopy, NMR spectroscopy, flow cytometry, microscopy and cell biology. Interested in pursuing research interests in an academic setting.

Specialties: Biophysics, Cell Biology, Microscopy, Biochemistry, and Molecular Biology

Experience

University of Georgia

Assistant Professor

January 2013 - Present

Center for Tropical & Emerging Global Diseases and Department of Cellular Biology

Washington University School of Medicine

6 years 4 months

Research Instructor

June 2012 - November 2012 (6 months)

Department of Medicine, Division of Infectious Diseases

Principal Investigator in a fully funded research program aimed at delineating the role of molecular chaperones in the pathogenesis of the deadly malaria parasite, Plasmodium falciparum.

HHMI Research Associate

August 2006 - June 2012 (5 years 11 months)

Development of an independent research project aimed at understanding trinucleotide repeats in the malaria parasite, Plasmodium falciparum.

Integrating biochemical, genetic and cell biology approaches to study proteins with poly-asparagine regions.

The Rockefeller University

Graduate Fellow

August 2000 - July 2006 (6 years)

Developed an novel approach to study the biophysical properties of domains within multi-domain proteins. The methodology developed was utilized to study SH3 domains within the signaling adaptor proteins, Crk-I and Crk-II. Structural studies of these proteins were undertaken using Fluorescence, NMR spectroscopy and other biophysical approaches.

Education

The Rockefeller University

Ph.D., Protein Chemistry · (2000 - 2006)

Indian Institute of Technology, Bombay

M. Sc., Biotechnology · (1998 - 2000)

University of Mumbai

B.Sc., Microbiology · (1995 - 1998)