

SHWETHA SHIVAPRASAD

Postdoctoral researcher

Dr. Peter Sarnow's lab

Microbiology and Immunology

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Education

Postdoctoral researcher 2016-Present
Laboratory of Dr. Peter Sarnow, Department of Microbiology and Immunology, Stanford School of Medicine, Stanford University, USA.

Ph.D. Doctoral candidate 2010-2015
Laboratory of Dr. Saumitra Das, Department of Microbiology and Cell Biology, Indian Institute of Science, Karnataka, India
Cumulative GPA: 7.0/8.0

M.Sc. Biotechnology, Maharaja Sayajirao University, Gujarat, India 2008-2010
Cumulative GPA: 82%

B.Sc. Biotechnology, Manipal Life Sciences Center, Karnataka, India 2005-2008
Cumulative GPA: 89%

Publications

Shwetha S, Kumar A, Mullick R, Vasudevan D, Mukherjee N, Das S. HuR displaces PTB to facilitate La binding to the 3'UTR and enhances HCV replication. Journal of Virology (2015).

Shwetha S, Gouthamchandra K, Chandra M, Ravishankar B, Khaja MN, Das S. Circulating miRNA profile in HCV infected serum: novel insight into pathogenesis. Scientific Reports (2013).

Bhat P, *Shwetha S*, Sharma DK, Joseph AP, Srinivasan N, Das S. The beta hairpin structure within ribosomal protein S5 mediates interplay between domains II and IV and regulates HCV IRES function. Nucleic Acids Research (2015).

Gouthamchandra K, Kumar A, *Shwetha S*, Mukherjee A, Chandra M, Ravishankar B, Khaja MN, Sadhukhan PC, Das S. Serum proteomics of hepatitis C virus infection reveals retinol-binding protein 4 as a novel regulator. Journal of General Virology (2014).

Mukherjee K, Ghoshal B, Ghosh S, Chakrabarty Y, *Shwetha S*, Das S, Bhattacharyya SN. Reversible HuR-microRNA binding controls extracellular export of miR-122 and augments stress response. EMBO Reports (2016).

Presentations

Invited oral presentations:

“HuR orchestrates interplay between viral and host proteins at the 3’UTR to regulate HCV replication” 4th Molecular Virology Meeting, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, 2015.

Poster presentations:

“miR-125b regulates hepatitis C virus (HCV) replication through the RNA binding protein, Human antigen R (HuR)” “EMBL symposium: The Non-coding Genome”, EMBL, Heidelberg, Germany, October 2015.

“Role of circulating miRNAs, miR-320c and miR-483-5p in HCV pathogenesis and disease progression” 20th International Symposium on Hepatitis C Virus and Related Viruses, Melbourne, Australia 2015.

“HuR binding to 3’UTR influences translation and replication of Hepatitis C Virus” in the Sixth RNA Group Meeting at the Indian Institute of Science, Bangalore, India, 2012.

Research experience

Ph.D. research project, Indian Institute of Science 2010-2016

“Host-pathogen interactions in Hepatitis C Virus infection: Deciphering the role of host proteins and microRNAs”

Thesis work carried out under the guidance of Prof. Saumitra Das, Department of Microbiology and Cell Biology

M.Sc. research project, Maharaja Sayajirao University 2008-2010

“Role of a non-coding RNA in the pathogenicity of *Pseudomonas aeruginosa*”

Project carried out under the guidance of Dr. Mrinalini Nair, Department of Microbiology and Biotechnology Centre.

B.Sc. research project, Indian Institute of Science, Bangalore, India 2008

“Role of Metals in Interferon- γ Mediated functional responses” Project carried out under the guidance of Dr. Dipankar Nandi, Department of Biochemistry.

Awards

2005-2010: Kishore Vaigyanik Protsahan Yojna scholarship awarded for research in the Basic Sciences by the Department of Science and Technology, Government of India.

2010: Gold medal awarded for obtaining the highest GPA in the Masters in Biotechnology Program by the MS University of Baroda, India.

2010-2015: Graduate student research fellowship awarded by the Government of India for PhD training at the Indian Institute of Science (All India Rank 3).

2015: Best poster award and oral presentation in the 4th Molecular Virology Meeting at the Rajiv Gandhi Centre for Biotechnology, India.