

Paresh Sharma

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National Institute of Animal Biotechnology,
Hyderabad, India

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Education

Degree	Institute
PhD in Molecular Parasitology	BITS, PILANI, Rajasthan
MSc in Biotechnology	Jiwaji University, Gwalior, MP
BSc in Biotechnology	Jiwaji University, Gwalior, MP

Work Experience

Jan 2013 - Current	Scientist C at NIAB, Hyderabad, India
2010 - 2013	Post-doctoral fellow, NIAID, NIH, USA.
2007-2008	Visiting Scientist at CBER, FDA, NIH.
2004-2010	PhD on Molecular Parasitology from BITS Pilani, Rajasthan
2003-2004	JRF at Centre for CCMB, Hyderabad
2003	MSc dissertation at CCMB, Hyderabad.

Publications

Pillai AD, Addo R, **Sharma P**, Nguitrageol W, Srinivasan P, Desai SA. Malaria parasites tolerate a broad range of ionic environments and do not require host cation remodeling. *Mol Microbiol.* 2013 Jan 25. doi: 10.1111/mmi.12159. [Epub ahead of print]

Wang Nguitrageol,^{1,4} Abdullah A.B. Bokhari,^{1,4} Ajay D. Pillai,^{1,4} Kempaiah Rayavara,¹ **Paresh Sharma**,¹ Brad Turpin,² L. Aravind,³ and Sanjay A. Desai¹. Malaria parasite *clag* genes determine nutrient uptake channel activity on infected red blood cells. *Cell*, **2011**: 145(665–677).

Gannavaram Sreenivas*, **Paresh Sharma***, Robert Duncan, Poonam Salotra and Hira L.Nakhasi. Mitochondrial associated Ubiquitin fold modifier-1 mediated protein conjugation in *Leishmania donovani*. *PLOS ONE*, 2011(1), e16156. [* represent that both the authors are combined first author and have contributed equally]

Comparative *in vivo* expression of amastigote up regulated *Leishmania* genes in three different forms of Leishmaniasis. **Paresh Sharma**, Srividya Gurusurthy, Robert Duncan, Hira L.Nakhasi and Poonam Salotra. *Parasitology International* 2010; 59(2):262-4.

Transcriptome analysis during the process of *in vitro* differentiation of *Leishmania donovani* using genomic microarrays. Srividya G, Duncan R, **Sharma P**, Raju BV, Nakhasi HL, Salotra P. *Parasitology*.

2007;134:1527-39.

Circulating nitric oxide and C-reactive protein levels in Indian kala azar patients: correlation with clinical outcome. Ansari NA, **Sharma P**, Salotra P. Clin Immunol. 2007; 122(3):343-8.

Reduced expression of nutrient channels in *Plasmodium falciparum*-infected erythrocytes mediates a new antimalarial resistance mechanism. **Paresh Sharma** and Sanjay A. Desai. [Manuscript under review in PLOS Pathogens Journal].

Abstract published

Paresh Sharma and Sanjay A. Desai . Distinct levels of *clag* gene epigenetic control in *P. falciparum* produce altered nutrient channels and permit antimalarial resistance. In (23rd) Annual Molecular Parasitology Meeting held at Woods Hole Massachusetts, USA from September 23-27, 2012.

Paresh Sharma and Sanjay A. Desai . Reduced expression of nutrient channels in *Plasmodium falciparum*-infected erythrocytes mediates a new antimalarial resistance mechanism. In Johns Hopkins University, USA on April 27, 2012 "World Malaria Day Conference".

Paresh Sharma and Sanjay A. Desai . Molecular basis of blasticidin S-resistance in *P. falciparum* : reduced *clag* gene expression and defective host membrane uptake. In (22nd) Annual Molecular Parasitology Meeting held at Woods Hole Massachusetts, USA from September 11-15, 2011.

Paresh Sharma, Gannavaram Sreenivas, Robert Duncan, Srividya Gurumurthy, Hira L.Nakhasi and Poonam Salotra. Identification and role of a novel Ubiquitin-like system in the protozoa parasite *Leishmania donovani*. In 4th World Congress on Leishmaniasis (WL4) held at Lucknow, India, 03-07 Feb'09. P 231.

Paresh Sharma, Gannavaram Sreenivas, Robert Duncan, Srividya Gurumurthy, Hira L.Nakhasi and Poonam Salotra. A novel Ubiquitin-like system in the protozoa parasite *Leishmania donovani*. In the National Conference on Emerging Trends in Life Sciences Research held at BITS, Pilani, Rajasthan, India on 6 -7 Mar'09.P 73.

Paresh Sharma, Gannavaram Sreenivas, Robert Duncan, Srividya Gurumurthy, Hira L.Nakhasi and Poonam Salotra Identification and role of a novel Ubiquitin-like system in the protozoa parasite *Leishmania donovani*. In Keystone symposia on The Many Faces of Ubiquitin held at Colorado, USA on January 11 -16, 2009.

Robert Duncan, Ranadhir Dey, Joseph Milone, **Paresh Sharma**, Poonam Salotra, Hira Nakhasi Characterization of *Leishmania donovani* amastigote specific 27kDa protein: a candidate for making a live attenuated vaccine. In Gordon Conference June 2008.

Nasim Akhtar Ansari, **Paresh Sharma**, Venkatesh Ramesh, Poonam Salotra. Immuno-determinants in Indian Leishmaniasis: Correlation with disease outcome. In 33rd Indian Immunology society conference held at AIIMS, New Delhi, India on 28th -31th January 2007.

Salotra P, Srividya G, **Sharma P**, Subba Raju B.V, Duncan R, Nakhasi H.L Identification of novel vaccine targets for visceral leishmaniasis using genomic microarray.

Paresh Sharma. Development of Informative STR Markers and Establishment of DNA Repository from a Linkage Mapping Panel on Buffalo. In 8th ADNAT conference at Center for Cellular & Molecular Biology(CCMB),Hyderabad, India on 23rd & 24th Feb. 2004.

Academic awards/honors

Won Indo-US Vaccine Action Program travel fellowship for a duration of 3 months, on the subject of “Discovery of Virulence-related Genes in *Leishmania donovani* using a Genomic Microarray” at the Center for Biologics Evaluation and Research, Bethesda, Maryland, United States of America, in lab of Dr. Hira L Nakhasi (Director, Division of Emerging and Transfusion Transmitted Diseases).

Awarded ICMR Senior research fellowship (SRF) for the project entitled “Molecular and Functional Characterization of a Stage regulated gene in *Leishmania donovani*” from Feb’08 –till now.

Won Best poster price in the National Conference on Emerging Trends in Life Sciences Research held at BITS, Pilani, Rajasthan, India on 6 -7 Mar’09.