



Jamia Hamdard  
(Hamdard University)  
New Delhi 110062  
[www.jamiahamdard.edu](http://www.jamiahamdard.edu)



## Distinguished Lecture Series

# Malaria: A Biomarker for National Development

*Speaker*

**Dr. Amit Sharma**

Group Leader & Scientist  
International Centre for Genetic  
Engineering & Biotechnology  
(ICGEB)

New Delhi – 110067

**Date & Time: January 10, 2017 at 2 pm**  
**Hamdard Convention Centre**

*Malaria remains a major killer worldwide. This lecture will give a general overview of this disease, its prevalence, its control and its future. We will also discuss existing malaria drugs, development of new drugs and the phenomenon of resistance to drugs.*

PROGRAMME		
11:00 am	Arrival	Meeting with the Vice Chancellor
11:30 am	Interactive session	Interaction with selected faculty members and research scholars at Board Room, Vice Chancellor's Office
12:45 pm	Visit	BD-JH FACS Academy
1:00 pm	Lunch	Scholars House
2:00 pm	Lecture	Hamdard Convention Centre

Prof. S. Raisuddin  
Advisor (Research)

[sraisuddin@jamiahamdard.ac.in](mailto:sraisuddin@jamiahamdard.ac.in)

# BIOGRAPHICAL SKETCH



**Name:** Amit Sharma      **Position:** Group Leader and Scientist

**Fellow of:** National Academy of Sciences (NASI), Indian Academy of Sciences (IAS), Indian National Science Academy (INSA), The World Academy of Sciences (TWAS)

**Contact:** amit.icgeb@gmail.com

**Date of Birth:** 12<sup>th</sup> April 1968 (48 years)

## **Education:**

Northwestern Univ., USA Ph. D. 1990-1995 Protein crystallography

Oxford Univ., UK Post-doc 1996-2000 Structural biology

## **Professional experience:**

2016 - Group Leader, Molecular Medicine Group, ICGEB  
2004 - 2015 Head, Structural and Computational Biology Group, ICGEB  
2000 - 2004 Senior Research Scientist/Principal Investigator - Malaria Group, ICGEB  
2001-2006 Wellcome Trust International Senior Research Fellow, ICGEB  
1996 -2000 Research Fellow (Lecturer) in Biochemistry, St. John's College, Oxford  
1995 -2000 Research Fellow, Institute of Molecular Medicine, Laboratory of Molecular Biophysics and the Wellcome Trust Centre for Genomic Medicine, Oxford University  
1996 - 1998 Lecturer in Biochemistry, Trinity College, Oxford Univ., UK  
1993 - 1995 National Institute of Health National Research Scholar Awardee, Northwestern University (NWU), USA  
1989-1990 Howard Hughes Medical Institute Undergraduate Summer Research Awardee, Purdue Univ.

## **Honours, fellowships and awards:**

2015 Infosys Science Award in Biological Sciences  
2015 Elected fellow of The World Academy of Sciences  
2015 Elected fellow of Indian National Science Academy, New Delhi  
2014 Ranbaxy Science Research Award in Basic Medical Sciences  
2014 JC Bose fellowship, Govt. of India  
2013 Outstanding Senior Research Program Grant, DBT, Govt. Of India  
2013 Member of NASI editorial board, India  
2013 Selection committee for Early Career Wellcome Trust-DBT fellowships  
2012 Elected Fellow of the Indian Academy of Sciences, Bangalore  
2011 Shanti Swarup Bhatnagar Award in Biological Sciences  
2010 ISCA Platinum Jubilee Lecture Award  
2009 Goyal Young Scientist Prize  
2008 National Bioscience Award, DBT, Govt. Of India  
2007 MOT Iyengar National Science Award for Biomedical Research  
2006 Bachawat Memorial Award in Biomedical Sciences  
2006 B. M. Birla Prize in Biological Sciences  
2006 Elected Fellow of the National Academy of Sciences, Allahabad, India  
2005-2010 Awarded Wellcome Trust Infrastructure Support Grant, UK  
2001-2006 Awarded Wellcome Trust International Senior Research Fellowship, UK  
1996 -2000 Elected Research Fellow, St. John's College, Oxford University, UK  
1993 – 1995 Awarded National Institute of Health National Research Scholarship, Northwestern University, USA  
1990-1991 Awarded Howard Hughes Medical Institute Undergraduate Summer Research Fellowship, Purdue Univ., USA

### **Expertise and research interests:**

My laboratory takes a multi-disciplinary approach towards understanding malaria parasite proteins. We aim to highlight the principles that govern biological function of some key parasite proteins. Towards this end we rely extensively on bioinformatics, biochemistry, cell biology, drug discovery, molecular biology, parasitology and protein crystallography. Our primary focus of research is to target the protein translation machinery from malaria and other parasites for novel drug discovery.

### **Some significant publications (out of 85):**

1. Sharma, Amit., Hanai, R., and Mondragon, A. *Structure*, 2, 767-777, 1994.
2. Lue, N., Sharma, Amit., Mondragon, A., and Wang, J.C. *Structure*, 3, 1315-1322, 1995.
3. Jackson, T., Sharma Amit, et al King, A. *Journal of Virology*, 71, 8357-8361, 1997.
4. Sharma Amit, Askari, J.A., Humphries, M.J., Jones, E.Y., Stuart, D.I. *EMBO Journal*, 18, 1468-1479, 1999.
5. Amit Sharma<sup>1</sup> et al. *Nature Structural Biology* 10, 197-203, 2003.
6. Alfredo Mayor, et al, Amit Sharma and Chetan E. Chitnis. *Blood*, 105, 2557-2563, 2005.
7. Saurabh Singh, et al Amit Sharma<sup>1</sup>. *Nature*, 439(7077), 741-744, 2006.
8. Vasundhara M. Navagi, et al and Amit Sharma<sup>1</sup> *Journal of Biological Chemistry* 281, 16978-16984, 2006.
9. Beeram Ravi Chandra, M. Yogavel and Amit Sharma<sup>1</sup> *Journal of Molecular Biology* 367, 970-982, 2007.
10. Sharma A, et al Sharma Amit<sup>1</sup>. *Journal of Biological Chemistry* 283, 24077-24088, 2008.
11. Rachna Hora, et al, and Amit Sharma<sup>1</sup>. *Journal of Biological Chemistry* 284, 6260-6269, 2009.
12. Gill J, et al Sharma Amit<sup>1</sup>. *Journal of Biological Chemistry* 284, 10076-10087, 2009.
13. Bhatt TK et al and Sharma Amit<sup>1</sup>. *Journal of Biological Chemistry* 285, 5917-5930, 2010.
14. Ashwani Sharma and Amit Sharma<sup>1</sup> *Journal of Biological Chemistry*, 286(36):31924-31928, 2011.
15. Bhatt *et al* and Amit Sharma<sup>1</sup> *Nature Communications* 2011 Nov 8;2:530. doi: 10.1038/ncomms1522, 2011.
16. Bansal A, et al, Sharma A, Chitnis CE. *Journal of Biological Chemistry*, 288(3):1590-602, 2013.
17. Braun et al, Amit Sharma, et al Hakimi-MA *Journal of Experimental Medicine*, 210(10):2071-2086, 2013.
18. Tripathi *et al.* and A. Sharma, R. Madhubala *Journal of Biological Chemistry*, Apr 25;289(17):12096-12108, 2014
19. Vitul Jain et al Amit Sharma<sup>1</sup> *Structure (Cell Press)*, May 5;23(5):819-829, 2015.
20. Abhishek Jamwal et al and Amit Sharma<sup>1</sup> *Journal of Biological Chemistry*, Dec 18;290(51):30498-30513, 2015.
21. Vitul Jain, Yogavel Manickam and Amit Sharma<sup>1</sup>. *Structure (Cell Press, Cover page)*, 2016
22. Kato et al, Amit Sharma et al S. Schreiber *Nature*, 2016
23. Arvind et al, Amit Sharma<sup>1</sup> *PLOS Neglected Tropical Diseases (Cover page)*, 2016