





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

BIOGRAPHICAL SKETCH

<u>Name:</u> Amit Sharma <u>Position:</u> Group Leader and Scientist

Fellow of: National Academy of Sciences (NASI), Indian Academy of Sciences (IAS), Indian

Group Leader, Molecular Medicine Group, ICGEB

National Science academy (INSA), The World Academy of Sciences (TWAS)

<u>Contact:</u> amit.icgeb@gmail.com <u>Date of Birth:</u> 12th April 1968 (48 years)

Education:

2016 -

1990-1991

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

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

Professional experience:

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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	

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, JC. 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 Sharma¹et 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 Sharma¹. Nature, 439(7077), 741-744, 2006.
- 8. Vasundhara M. Navagi, et al and Amit Sharma¹ Journal of Biological Chemistry 281, 16978-16984, 2006.
- 9. Beeram Ravi Chandra, M. Yogavel and Amit Sharma¹ Journal of Molecular Biology 367, 970-982, 2007.
- 10. Sharma A, et al Sharma Amit¹. Journal of Biological Chemistry 283, 24077-24088, 2008.
- 11. Rachna Hora, et al, and Amit Sharma¹. Journal of Biological Chemistry 284, 6260-6269, 2009.
- 12. Gill J, et al Sharma Amit¹. Journal of Biological Chemistry 284, 10076-10087, 2009.
- 13. Bhatt TK et al and Sharma Amit¹. Journal of Biological Chemistry 285, 5917-5930, 2010.
- 14. Ashwani Sharma and Amit Sharma¹ Journal of Biological Chemistry, 286(36):31924-31928, 2011.
- 15. Bhatt et al and Amit Sharma¹ 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 Sharma¹ Structure (Cell Press), May 5;23(5):819-829, 2015.
- 20. Abhishek Jamwal et al and Amit Sharma¹ Journal of Biological Chemistry, Dec 18;290(51):30498-30513, 2015.
- 21. Vitul Jain, Yogavel Manickam and Amit Sharma^{1,} Structure (Cell Press, Cover page), 2016
- 22. Kato et al, Amit Sharma et al S. Schreiber Nature, 2016
- 23. Arvind et al, Amit Sharma PLOS Neglected Tropical Diseases (Cover page), 2016