

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Asokan Anbanandam		POSITION TITLE Director, Bio-NMR lab	
eRA COMMONS USER NAME Asokan			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Indian Institute of Technology	Ph.D.	1999	Chemistry
University of California-Davis	Postdoctoral	1999-2000	Bio-Physical Chemistry
University of Kansas-Lawrence	Postdoctoral	2000-2003	Bio-Physical chemistry
University of Texas Houston Medical School	Postdoctoral	2000-2007	Structural Biology
University of Missouri-Columbia	Postdoctoral	2007-2008	Structural Biology

A. Positions and Honors.**Positions and Employment**

1993-1999 Graduate Student, IIT-M, India
 1999-2000 Post-Doctoral Research Fellow, University of California, Davis, CA
 2000-2003 Post-Doctoral Research Fellow, University of Kansas, Lawrence, KS
 2003-2007 Post-Doctoral Research Fellow, University of Texas Medical School, Houston, TX
 2007-2008 Post-Doctoral Research Fellow, University of Missouri, Columbia, MO
 2008- Director, Bio-NMR Lab, University of Kansas, Lawrence, KS

Honors

2001-2003 American Heart Association Post-doctoral Research fellow

B. Selected peer-reviewed publications (in chronological order).

- Asokan A, Mandal BK, Vargheese B, Manoharan PT. Structure and magnetism of an Exchange coupled system. *An NMR Approach. Proc. Natl. Acad. Sci (Chemical Sci.)*. (1995) 107:281-295.
- Asokan A, Vargheese B, Caneschi A, Manoharan PT. A Novel Polymer of Binuclear Ni (II) Complex bridged by 1, 3-diaminopropane: Structure and Magnetism. *Inorg. Chem.* (1998) 37:228-232. DOI: 10.1021/ic9711675
- Asokan A, Vargheese B, Manoharan PT. Synthesis, Structure, Magnetic Properties and ¹H-NMR Studies on Moderately Antiferromagnetically Coupled Binuclear Cu (II) Complex. *Inorg. Chem.* 1999;38:4393-4399. DOI: 10.1021/ic9813617
- Asokan A, Manoharan PT. ¹H-NMR Studies on Strongly Antiferromagnetically Coupled Dicopper (II) systems. *Inorg. Chem.* (1999) 38:5642-5654. DOI: 10.1021/ic9803356
- Asokan A, de Ropp JS, Newmyer S, Ortiz de Montellano PR, La Mar GN. Solution ¹H-NMR of the molecular and electronic structures of the heme cavity and substrate binding pockets in high-spin ferric horseradish peroxidase: Effect of His42 Ala mutation. *JACS* (2001) 123:4243-4254. PMID: 11457190
- La Mar GN, Asokan A, Espiritu B, Yeh DC, Wilks A, Auclair K, Ortiz de Montellano PR. Solution ¹H-NMR investigation of the active site of cyanide-inhibited, substrate bound human heme oxygenase; Comparison to the crystal structure of the unligated form. *J. Biol. Chem.* (2001) 276:15676-15687. PMID: 11297521
- de Ropp JS, Sham S, Asokan A, Newmyer S, Ortiz de Montellano PR, La Mar GN. Influence of the distal His in imparting imidazolate character to the proximal His in Heme Peroxidase: ¹H NMR study of cyanide-inhibited His42Ala Horseradish Peroxidase. *JACS* (2002) 124:11029-11037. PMID: 12224950

Principal Investigator/Program Director (Last, First, Middle): PI Name ASOKAN ANBANANDAM

8. Bartlett RK, Urbauer RJB, Asokan A, Smallwood HS, Urbauer JL, Squier TC. Oxidation of Met¹⁴⁴ and Met¹⁴⁵ in Calmodulin Blocks Calmodulin Dependent Activation of the Plasma Membrane Ca-ATPase. *Biochemistry* (2003) 42:3231-3238. PMID: 12641454
9. Asokan A, Urbauer RJB, Bartlett RK, Smallwood HS, Squier TC, Urbauer JL. Mediating Molecular Recognition by Methionine Oxidation: Conformational Switching by Oxidation of Methionine in the Carboxyl-Terminal Domain of Calmodulin. *Biochemistry* (2005) 44:9486-9496. PMID: 15996103
10. Asokan A, Albarado D, Nguyen C, Halder G, Gao X, Veeraraghavan S. Insights into transcription enhancer factor 1 (TEF-1) activity from the solution structure of the TEA domain. *PNAS* (2006)103:17225-17230. PMID: 17085591
11. Asokan A, Albarado D, Tirziu D, Simons M, Veeraraghavan S. Molecular Basis for Proline-Arginine Rich Peptide Inhibition of Proteasome. *J. Mol. Biol.* (2008) 384:219-227. PMID: 18823992

