

BIOGRAPHICAL SKETCH

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NAME Nagajyothi, Fnu	POSITION TITLE Associate
eRA COMMONS USER NAME (credential, e.g., agency login)	

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
Bangalore University, Karnataka State, India	B.S	1986	Chemistry, Botany, Zoology
Bangalore University, Kamataka State, India	M.S	1988	Biochemistry
University of Mysore, Kamataka State, India	PhD	2001	Biochemistry

POSITIONS:

1988-1990	Lecturer, Vijaya First Grade College, Bangalore University, India
1990-1991	Senior Research Assistant, Central Silk Research & Training Institute, India
1991-2001	Scientist, Central Food Technological & Research Institute, India
2001-2007	Research Associate, Department of Pathology, AECOM, Bronx, NY
2007-present	Associate, Department of Pathology, AECOM, Bronx NY

HONORS:

1998-2000	Fellowship, Deutscher Akademischer Austauschdienst, (DAAD) Awarded by the Government of Germany, as part of doctoral work at University of Hannover, Germany.
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RELEVANT PUBLICATIONS:

Srinivasan AR, **Nagajyothi**, Gowda LR, Bhat SG. .Phenylalanine ammonia-lyase activity in permeabilized yeast cells (Rhodotorula glutinis) *Biotechnology Techniques* **8**, 729-732. 1994.

Sekhar S, **Nagajyothi**, Bhat SG. Preparation of detergent permeabilized bakers yeast whole cell catalase. *Process Biochemistry* **34**, 349-354. 1999.

Rajendra Upadhy, **Nagajyothi**, Bhat SG. D-Aminoacid oxidase and catalase of detergent permeabilized Rhodotorula gracilis cells and its potential use for the synthesis of alpha-ketoacids. *Process Biochemistry* **35**, 7-13. 1999.

Upadhy R, **Nagajyothi**, Bhat SG. Stabilization of D-aminoacid oxidase and catalase in permeabilized Rhodotorula gracilis cells and its application for the preparation of alpha-keto acids, *Biotechnology and Bioengineering* **68**, 430-436. 2000.

Thirumuruhan RA, Almo S, Bresnick A, Huang R, **Nagajyothi**, Dodatko T, Sharp A., Atskovsky Y, Chance M.R, Burley S. Progress Report from the New York Structural Genomics Research Consortium. *Biophysical Journal* **84**: 175A, 2003.

Shekar SC, Wu H, Fu Z, Yip S, **Nagajyothi**, Cahill SM, Girvin ME and Backer JM. Mechanisms of Constitutive PI 3-kinase Activation by Oncogenic Mutants of the p85 regulatory subunit. *Journal of Biological Chemistry* **280**:27850-27855, 2005.

Machado F, Desruisseaux M, **Nagajyothi**, Kennan R, Hetherington H, Wittner M, Weiss LM, Lee S, Scherer PE, Tsuji M, Tanowitz H. Endothelin in a murine model of cerebral malaria. *Experimental Biology and Medicine* **231(6)**:1176-1181 (2006).

Combs TP, **Nagajyothi**, Mukherjee S, de Almeida CJG, Jelicks L, Schubert W, Lin Y, Jayabalan DS, Zhao D, Braunstein VL, Landskroner-Eiger S, Cordero A, Factor SF, Weiss LM, Lisanti MP, Tanowitz HB, Scherer PE. The adipocyte as an important target cell for *Trypanosoma cruzi* infection. *J Biol Chem.* **280**:24085-24094 (2006).

Nagajyothi, Desruisseaux M, Bouzahzah B, Weiss LM, Andrade D, Factor SM, Scherer PE, Albanese C, Lisanti MP, Tanowitz, HB. Cyclin and caveolin expression in an acute model of murine chagasic myocarditis. *Cell Cycle* **5**: (2006).

Huang H, Weiss LM, **Nagajyothi F**, Tanowitz HB, Wittner M, Orr GA, Bao Y. Molecular cloning and characterization of the protein kinase A regulatory subunit of *Trypanosoma cruzi*. *Mol Biochem Parasitol.* **149(2)**:242-5 (2006).

Mukherjee S, Belbin TJ, Spray DC, Mukhopadhyay A, **Nagajyothi F**, Weiss LM, Tanowitz HB. Microarray technology in the investigation of diseases of myocardium with special reference to infection. *Front Biosci.* **11**:1802-1813. Review (2006).

Hassan GS, Mukherjee S, **Nagajyothi**, Weiss LM, Petkova SB, Almeida C, Huang H, Desruisseaux MS, Bouzahzah B, Pestell RG, Albanese C, Christ GJ., Lisanti MP, Tanowitz HB. *Trypanosoma cruzi* infection induces proliferation of vascular smooth muscle cells. *Infection and Immunity*, 152-159, (2006).

Bouzahzah B, **Nagajyothi F**, Desruisseaux MS, Krishnamachary M, Factor SM, Cohen AW, Lisanti MP, Petkova SB, Pestell RG, Wittner M, Mukherjee S, Weiss LM, Jelicks LA, Albanese C, Tanowitz HB. Cell cycle regulatory proteins in the liver in murine *Trypanosoma cruzi* infection. *Cell Cycle* **5(20)**:2396-2400 (2006).

Ashton AW, Mukherjee S, **Nagajyothi**, Huang H, Braunstein VL, Desruisseaux MS, Factor SM, Lopez L, Berman JW, Wittner M, Scherer PE, Capra V, Coffman TM, Serhan CN, Gotlinger K, Wu, Weiss LM, Tanowitz HB. Thromboxane A₂ is a key regulator of pathogenesis during *Trypanosoma cruzi* infection. *J Exp Med* 204: 929-940, (2007).

Desruisseaux MS, **Nagajyothi**, Trujillo ME, Tanowitz HB, Scherer PE. Adipocyte, adipose tissue, and infectious disease. *Infect Immun.* **75(3)**:1066-1078 Review (2007).

Medina FA, Cohen AW, de Almeida CJ, **Nagajyothi F**, Braunstein VL, Teixeira MM, Tanowitz HB, Lisanti MP. Immune dysfunction in caveolin-1 null mice following infection with *Trypanosoma cruzi* (Tulahuen strain). *Microbes Infect.* **9(3)**:325-333 (2007).

Bouzahzah B, Yurchenko V, **Nagajyothi F**, Hulit J, Sadofsky M, Braunstein VL, Mukherjee S, Weiss H, Machado FS, Pestell RG, Lisanti MP, Tanowitz HB, Albanese C. Regulation of host cell cyclin D1 by *Trypanosoma cruzi* in myoblasts. *Cell Cycle* **7(4)**:500-503, (2008).

Monteiro AC, Schmitz V, Morrot A, de Arruda LB, **Nagajyothi F**, Granato A, Pesquero JB, Müller-Esterl W, Tanowitz HB, Scharfstein J, Mukherjee S, Nagajyothi F, Mukhopadhyay A, Machado FS, Belbin TJ, Campos de Carvalho A, Guan F, Albanese C, Jelicks LA, Lisanti MP, Silva JS, Spray DC, Weiss LM, Tanowitz HB. Alterations in myocardial gene expression associated with experimental *Trypanosoma cruzi* infection. *Genomics* **91(5)**:423-432 (2008).

Mukherjee S, **Nagajyothi F**, Mukhopadhyay A, Machado FS, Belbin TJ, Campos de Carvalho A, Guan F, Albanese C, Jelicks LA, Lisanti MP, Silva JS, Spray DC, Weiss LM, Tanowitz HB. Alterations in myocardial gene expression associated with experimental *Trypanosoma cruzi* infection. *Genomics* **91(5)**: 423-432, (2008).

Fnu Nagajyothi, Mahalia S. Desruisseaux, Niranjana Thiruvur, Louis M. Weiss, Vicki L. Braunstein, Chris Albanese, Mauro M. Teixeira, Cecelia de Almeida, Michael P. Lisanti, Philipp E. Scherer, Herbert B. Tanowitz. Trypanosoma cruzi infection of cultured adipocytes results in an inflammatory phenotype. Obesity **16(9):1992-1997**, (2008)..

RESEARCH SUPPORT:**a. Ongoing research support****R21 AI 068538-01 A1 (PI Herbert B Tanowitz)**

NIH
Trypanosoma cruzi and AIDS: Role of the adipocyte 07/01/06 – 06/30/08 (one year no cost extension)
Role: Associate

R21 AI 071301 (PI Saul Tzidori)

NIH
Innate Immunity to Microsporidiosis 06/21/07 – 05/31/2009
Role: Associate

b. Completed research support**RO1 AI 052739 (PI Herbert BTanowitz)**

NIH/NIAID
Molecular Mechanisms in *T.cruzi* Cardiomyopathy in AIDS 1/1/04-12/31/08

The major goal of this project is to examine the consequences of *T.cruzi* infection on cyclins *in vitro*
Role: Associate

RO1 AI 043693 (PI Louis M Weiss, MD, MPH, Khan)

NIH/NIAD
(Subcontract with George Washington University 9/4/04-2/28/09
Intestinal Immunology of *E. cuniculi*

The goal of this proposal is to identify the specific cellular receptors and adaptor proteins that are responsible for initiating innate immunity during *E. bienensii* infection.
Role: Associate