

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Samata Kakkad		POSITION TITLE Research Scientist in Dept. of Radiology	
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
New Jersey Institute of Technology (NJIT), NJ	M.S.	08/06-12/07	Biomedical Engineering
D. J. Sanghvi College of Engineering, Mumbai University, India	B.E.	08/02-06/06	Biomedical Engineering

A. Personal Statement

My experience and training in imaging and image analyses will be applied to assist JHU ICMIC investigators in performing imaging studies using the Imaging and Probes Specialized Resource. My experience with second harmonic generation (SHG) microscopy and analyses of SHG data will be used to perform SHG characterization studies in Research Component 4 (Glunde/Li).

B. Positions and Honors**Positions and Employment**

08/11- Research Scientist – Johns Hopkins Medical Institute Baltimore, MD
 06/08-08/11 Research Technologist – Johns Hopkins Medical Institute Baltimore, MD
 01/08-06/08 Image Analyst – Public Health Research Institute (UMDNJ) New Jersey
 01/07-12/07 Research Assistant – University of Medical and Dentistry of New Jersey (UMDNJ)
 01/07-12/07 Web-developer – Center for Solar-Terrestrial Research (CSTR) NJIT
 08/07-12/07 Teaching Assistant – NJIT
 08/05-12/05 In-house Service Engineer - Transasia Biomedicals Pvt. Ltd, Mumbai, India

Awards/Scholarships

05/12 Educational Stipend Award for exceptional abstract submission. Magna Cum Laude Award, abstract ranked in the top 15% of all submissions. ISMRM 20th Scientific and Exhibition, Melbourne, Australia
 9/11 Student Stipend Award for exceptional abstract submission. World Molecular Imaging Congress, San Diego, CA, USA
 5/11 Educational Stipend Award for exceptional abstract submission. ISMRM 19th Scientific and Exhibition, Montreal, Canada
 09/10 Educational Stipend Award, ISMRM workshop. Santa Cruz, CA
 05/10 Educational Stipend Award for exceptional abstract submission. ISMRM 18th Scientific and Exhibition, Stockholm, Sweden
 09/09 Travel Stipend Award for exceptional abstract submission. World Molecular Imaging Congress Montreal, Canada

Other Experience and Professional Memberships

09/12 Session Moderator: Chemistry and Probes – Optical Imaging. World Molecular Imaging Congress, Dublin, Ireland
 05/06-05/08 President of the Graduate Biomedical Engineering Society (G-BMES), NJIT.

C. Selected Peer-reviewed Publications (Selected from 4 peer-reviewed publications)**Most relevant to the current application**

- Kakkad, Samata; Solaiyappan, Meiyappan; O'Rourke, Brian; Raman, Venu; Bhujwalla, Zaver M.; and Glunde, Kristine. Hypoxic tumor microenvironments reduce collagen I fiber density. *Neoplasia*. 2010 Aug;12(8):608-17. PMID2915405.
- Shah, Tariq; Wildes, Flonne; Penet, Marie-France; Winnard Jr., Paul T.; Glunde, Kristine; Artemov, Dmitri; Ackerstaff, Ellen; Gimi, Barjor; Kakkad, Samata; Raman, Venu; Bhujwalla, Zaver M. Choline Kinase Overexpression Increases Invasiveness and Drug Resistance of Human Breast Cancer Cells. *NMR*

Program Director/Principal Investigator (Last, First, Middle): Bhujwalla, Zaver, M.

Biomed. 2010 Jul;23(6):633-4,.

3. Stasinopoulos, I, Penet M-F, Chen Z, Kakkad S, Glunde K, Bhujwalla ZM. Exploiting the tumor microenvironment for theranostic imaging. NMR in Biomed. Jul;24(6):636-47, 2011.
4. Shah T, Stasinopoulos I, Wildes F, Kakkad S, Artemov D, Bhujwalla ZM.; Noninvasive imaging identifies new roles for cyclooxygenase-2 in choline and lipid metabolism of human breast cancer cells. NMR Biomed. Sep 22. doi: 10.1002/nbm.1789, 2011.

D. Research Support

Ongoing Research Support

P30CA06973 (Nelson/Bhujwalla)

05/01/06-04/30/11

NCI

Program Director/Principal Investigator (Last, First, Middle): Bhujwalla, Zaver, M.

Cancer Center Support Grant - Functional Imaging Core

The goal of this project is to provide an imaging resource for the Sidney Kimmel Comprehensive Cancer Center.

Role: Sr. lab technician

Completed Projects Within Last Three Years

None