
BIOGRAPHICAL SKETCH

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NAME: Harijan, Rajesh Kumar

eRA COMMONS USER NAME (credential, e.g., agency login): RHARIJAN

POSITION TITLE: Postdoctoral Research Fellow

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of Allahabad, Allahabad, India	B. Sc.	06/2006	Chemistry
Indian Institute of Technology (IIT), Bombay, Mumbai, India	M.Sc.	08/2009	Biotechnology
University of Oulu, Oulu, Finland	Ph.D.	03/2015	Structural Biology

Please refer to the Biographical Sketch sample in order to complete sections A, B, C, and D of the Biographical Sketch.

A. Personal Statement

My long-term research interests include the understanding of the structure-function relationship of protein complexes and development of powerful inhibitors against therapeutic enzyme targets. My previous research experiences and academic trainings have provided me with an excellent background in molecular biology, biochemistry, enzymology, structural biology and spectroscopy. As a predoctoral research assistant with Dr. Murthy (India) and graduate student with Dr. Wierenga (Finland), I worked on the enzymes, which are essential in parasitic protozoa and mycobacterial metabolic pathways. As a graduate student in Dr. Wierenga's research laboratory, I have supervised many students including undergraduate and Master's students. During my undergraduate and graduate careers, I received several research and teaching awards. In terms of a future career, I would like to see myself working as independent researcher in biomedical research in an academic/research institute. During my postdoctoral research, I would like to apply the biochemical, biophysical and structural biology techniques, which I learnt during my PhD to continue my research into protein structure-function relationships, enzymology, protein dynamics and drug design. My sponsor, Dr. Vern Schramm, is an eminent scientist and well recognized in this research area. He has an extensive expertise mentoring graduate students and numerous postdocs. His pioneering research in drug design based on the transition state analysis approach has been proven very successful leading to the synthesis of several nanomolar to femtomolar specific enzyme inhibitors. Among these, one inhibitor (Immucillin-H) has been approved for treatment of human relapsed/refractory Peripheral T-cell Lymphoma (PTCL). The Cryo-EM project proposed here will provide new conceptual and technical advances in structural biology and enzymology for understanding protein function, which will surely complement and expand my previous research training.

B. Positions and Honors

Positions and Employment

ACTIVITY/OCCUPATION	BEGINNING DATE (mm/yy)	ENDING DATE (mm/yy)	FIELD	INSTITUTION/COMPANY	SUPERVISOR/ EMPLOYER
Research Trainee	06/2008	07/2008	Molecular Biology	SHRM Biotechnologies Pvt. Ltd., Kolkata, India	Mr. Ashish Roy
Predoctoral Research Assistant	08/2008	04/2009	Enzymology	Department of Bioscience and Bioengineering, Indian Institute of Technology (IIT) Bombay, Mumbai, India	Dr. Prashant S. Phale
Predoctoral Research Assistant	07/2009	08/2010	Structural Biology	Molecular Biophysics Unit, Indian Institute of Science, Bangalore, India	Dr. MRN Murthy
Postdoctoral Associate	06/2015	Present	Biochemistry/ Enzymology/ Structural Biology	Albert Einstein College of Medicine, New York	Dr. Vern Schramm