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Abhay Shivaji Deshmukh

Objective: To develop a career in biomedical or biotechnological facility that provides an opportunity to apply my knowledge in the field of Research & Development, where I can utilize my skills and ability.

Academic Record:

Exam Passed	School / College	University / Board	Year	GPA
M.S. Biomedical Engineering	Dept. of Biomedical Engineering	Florida International University	Fall 2012- Present	3.52
Bachelor of Engineering (B.E.) Biotechnology	Kolhapur Institute of Technology, Kolhapur	Shivaji University, Kolhapur	2006-2010	3.13

Work Experience:

Research Assistant at Cellular and Tissue Engineering laboratory,
Department of Biomedical Engineering, University of Texas at San Antonio.

August 2011- December 2011

Graduate (Master's Student) at Neuronal Mass Dynamics Laboratory,
Department of Biomedical Engineering, Florida International University.

Sept 2012 – Present

Project details:

- 1) "EEG spatio-temporal profiles of interictal activity in rat models of chronic refractory epilepsy"
Institution Name: Florida International University (Neuronal Mass Dynamics Laboratory).
Duration: January 2013- present.
- 2) Title: "Cytocompatibility analysis of chemical substrates for wound healing applications"
Institution Name: University of Texas at San (Cellular and Tissue Engineering laboratory).
Duration: August 2011- December 2011.
- 3) Title: "Production of medium chain fatty acids using metabolically engineered *Saccharomyces cerevisiae*"
Institution Name: Kolhapur Institute of Technology
Duration: December 2009- March 2010.

Technical papers presented:

- 1) "A methodology to perform brain source imaging in rats with focal epilepsy" a research poster (1st author) presented at 22nd annual neuroscience research day, University of Miami, Miller School of Medicine 2013.
- 2) "Effects of Pilocarpine Doses on a Rat Model of FCD Epilepsy" a research poster (2nd author) the 29th Southern Biomedical Engineering Conference in Miami, Florida, organized by the Department of Biomedical Engineering, Florida International University 2013.
- 3) "Application of PCR in Forensic Sciences" (1st author) a national level paper presentation competition held at Tatyasaheb Kore Institute of Technology, Waranagar, India, 2009.

References:

Dr. Jorge J. Riera
Associate Professor;
jrieradi@fiu.edu
EC 2678; (305) 348-4948;
Department of Biomedical Engineering;
Florida International University.

Dr. Rena Bizios
Peter T. Flawn Professor and Director,
Cellular and Tissue Engineering laboratory,
Department of Biomedical Engineering, AET 1.361
Phone: 210-458-6646, UTSA.
rena.bizios@utsa.edu

Key Courses Taken:

Biology, Chemistry, Physics, Mathematics, Calculus, Biochemistry, Electrophysiology, Immunology, Electrical Engg, Molecular Biology, Nanomedicine, Biostatistics, Genetics, Bioprocesses, Microbiology, Mechanics, Engineering Graphics. Applications of non-linear systems in life science, Biomedical physiology.

Technical Skills:

Tissue culture: Animal tissue culture techniques, passaging cell lines, plant tissue culture, Bacterial and Yeast cultures.

Biochemical Analysis: ELISA, enzyme assays, gel electrophoresis, southern blotting, western blotting.

Protein Purification and downstream processes: liquid-liquid extraction, distillation, acid hydrolysis, centrifugation, filtration, paper chromatography, thin layer chromatography, Gas chromatography.

Molecular Biology Techniques: Isolation and characterization of DNA, transformation, restriction digestion.

Immunological assays: Ag-Ab assays (e.g. Radial immunodiffusion).

Microscopy: light, inverted and fluorescence microscopy.

Animal Handling and manipulation and Behavioral studies (Rats); Perfusion, Histology and EEG recording in rat models.

Equipment Used:

Real time PCR, inverted microscope, cell cytometer, cell counter, ultracentrifuges, electrophoresis system, UV-spectrophotometer, fluorescence microscope, Fermenter, homogenizer, bead beater, laminar hood, calorimeter, CO₂ Incubator, Cryostat.

Computer Proficiency:

Operating Systems: Windows 98/2000/XP/VISTA/07, Microsoft Office, Linux.

Softwares: Image-J, Brainstorm, Matlab, Wave_claus, Neuron.

Awards/Honors/Workshops:

Sr. No.	Year	Name of Workshop attended	Organized By
1	2009	Molecular & Cellular medicine	K.I.M.S. University & Moving Academy Of Medicine & Biomedicine, India & Assoc. Of Indian Pathologists Of North America, Boston, USA
2	2009	Advanced Bioinformatics	School of biotechnology, International Institute Of Information Technology, Pune
3	2008	15 days training in quality control and production dept.	SERUM INSTITUTE OF INDIA LTD.
4	2008	10 days workshop on "Techniques in Plant and Animal Tissue culture"	BioEra Medical Systems & KIT'S College of Engineering, Kolhapur
5	2006	6 days Implant Training in "Mother Dairy"	MOTHER DAIRY, Kurla, Mumbai

Personal Details:

Name : Mr.Abhay Shivaji Deshmukh.
Father's Name : Shivaji Patingrao Deshmukh.
Date of Birth : 23rd November 1986.
Gender : Male.
Martial Status : Unmarried.
Nationality : Indian.
Languages Known : English, Hindi, Marathi, Sanskrit (Speak, Read and Write).