

Beena G. Patel

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Education

Ph. D. (Microbiology)	1993
Master of Science (Microbiology)	1989
Bachelor of Science (Microbiology)	1987
<u>Continue educational courses</u>	
BlackBoard Quickstart CTLIT 400 11W, Classroom Performance System (CPS) clickers	
CTLIT 410 00W ,	2007
Blackboard, CAT's ~ Classroom Assessment Techniques	2006
Food and water born intestinal parasites Thomas Jefferson University	2006
Techniques in the Molecular Biology Laboratory course .Penn state University.	2005
Concepts for establishing and operating a microbial culture collection, Drexel University.	2002

Teaching Experiences

Adjunct Professor Biology MCCC, Pottstown PA	2006 - Present
Lecturer Microbiology J&J Science College, India	1992 to 1993
Lecturer Biology Home Science College, India.	1991 to 1992
Instructor Plant Pathology (Periodic) Department of Biosciences, India	1987 to 1989

Subjects Taught

- General Biology
- Genetics
- General Microbiology (Introduction)
- Biotechnology and Industrial Microbiology
- Plant Physiology,
- Botany ,
- Cell Biology

Professional Experiences (non-teaching)

Senior Microbiologist Kibow Biotech Inc. Philadelphia, PA	2001 – 2006
• Developed a nutraceutical formulation using Probiotic (friendly bacteria) for chronic kidney diseased patients. Project was based on “Gut based Uremia therapy”.	
• Perform QC analysis (includes sample preparation, reagent preparation, equipment handling, analysis, data management, interpretation of result)	
Research Scientist Organica Inc. Norristown, PA	1999 - 2001
• Development of microbial product for environmental applications, screening of microbe for bioremediation.	
• Additional responsibility as Quality Control In-charge	
Consultant Organic Inc. Norristown PA 19403	1998 - 1999

- Development of Microbial Plant growth activator, formulation for Wastewater and pond treatment

Research Associate 1996 - 1999
Sardar Patel University India.

- Project development and data analysis.

Chief Microbiologist 1989- 1990
Kidney Hospital, India

- Bacteriological examination of blood, urine and fecese samples; routine urine analysis.

Reviewer for:

- PhD thesis for research student 2004 (soil Microbiology from Gujarat University, India).
- Book for “Antimicrobial resistance in bacteria of animal origin” summer Issue of Focus on Microbiology Education, 2006.

Memberships and Affiliations

Society for industrial Microbiology,	2001- 2005
(Sardar Patel University) SPU Alumni, Saddle Brook, NJ	2004- Present
Bioinformatics.Org	2005-Present
American society of Microbiology	2006-Present
Editorial Board Member of ASAIO Journal	2005- Present

Awards and Honors

Research Scholarship awarded by Dr Subhash Patel. Columbia, USA	1990-1993
Sardar Patel University (Zoology award)	1985

Skill

Technical : UV- VIS Spectrophotometer, MP apparatus, Microscopy, Lyophilizer, Ultracentrifugation, Fermentor (400-gallon capacity), concentration unit, Autoclave. Laminar flow, pH meter, Shakers, Computer skill (Microsoft word, Excel, basic statistical data analysis (Univariate & multivariate, students t test, ANOVA), PCR, Black Board / smart board, Extraction of genomic DNA).

Special: Research design and assessment, Statistical analyses: Critical Data Evaluation, in vitro and in vivo studies, Protocol and SOP for stability study, In vitro testing of Probiotic strains for bacteriotherapy, Curriculum development and assessment, Environmental studies

Research Interests

- Bacteriotherapy: Species diversity of organisms in relation to colon ecosystem disturbance
- Biotechnology: Probiotic, prebiotic and symbiotic therapy for medical and environmental application