

# PRATIK SHRIWAS

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Mobile: +917506185869

## OBJECTIVE

- To associate with biotechnology research and put my competencies to the best use with a focus towards development of novel therapies, to work in a challenging, team-oriented R&D environment leveraging my expertise in oncology, molecular biology and cell biology.

## SUMMARY

- Cancer biotechnologist with Master's degree in Biotechnology.
- Ability to speak English and German.

## EDUCATION

**Teesside University, United Kingdom**

**(Feb 2012- June 2013)**

**MSc in Biotechnology with Distinction**

- Relevant modules: Analytical Methods, Environmental Biotechnology and Statistics.
- Research Project: Anticancer effects on biosurfactants from novel bacterial species.
- Research techniques used: Tissue culture and GC-MS chromatography.

**Indian Institute of Technology Madras, India**

**(2007-2011)**

**B.Tech in Biotechnology**

- Relevant modules: Molecular and Cellular Biology, Immunology, Microbiology, Biochemistry and Genetics.
- Research Project: Identification and characterization of GNL1 protein interacting partners.
- Research techniques used: PCR, Western Blot and RNA extraction.

## PROJECTS

- **Study of anticancer effects of biosurfactants from *P.teessidea* and *P.clemancea*** **(Feb – June 2013)**
- Biosurfactant Rhamnolipid was obtained from novel bacteria *P.teessidea* and *P.clemancea*.
- Anticancer ability of Rhamnolipids was tested upon Caco-2 cancerous cell line and HEK-293 normal human cell line.

### Contact details

“Shree Ram Niwas, 1968”, 1<sup>st</sup> Floor,

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Mandir, Telangkhedi, Nagpur-440033. India.

### University

IIT MADRAS, India.

Teesside University, UK.

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- **Cloning and sequencing of GNL1 interactors** (Aug 2010 – April 2011)
  - Cloning of cDNA from human leukocyte library and sequencing of potential GNL1 interactors was done.
  - It involved use of various molecular biology techniques like PCR, Sequencing and Cloning.
  - Identified SMCHD1 and IDH3G as interacting partners of GNL1.
- **Mathematical modeling of Rotating Rope Biofilter (RRB) for removal of volatile organic compounds** 2010 (May-July)
  - Used Matlab to solve second order differential equations.
  - VOCs were mixture of industrial pollutants like Toluene and Propanol and were passed through three different phases solid, liquid and biofilm.

### PAPER PRESENTATION

- Marine microbe-mediated biodegradation of low- and high-density polyethylene **April 2012**

### CONFERENCES

- Cancercon 2010 – IIT MADRAS **Feb 2010**

### TECHNICAL SKILLS

#### **Molecular Biology and Genetic Engineering**

- Transformation
- Isolation of plasmid DNA
- Agarose Gel electrophoresis
- Western Blot
- Polymerase chain reaction
- Ligation
- Restriction Enzyme digestion
- RNA isolation

#### **Microbiology**

- Basic physiological and biochemical tests

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### Protein Biochemistry

- SDS Page
- Chromatography techniques (Thin Layer, HPLC and GC-MS)

### Cancer and Tissue Culture

- Basic tissue culture techniques (cancer as well as normal mammalian cell lines)
- MTT assay, 96-well plate assay

### Bioinformatics and Structural Biology

- Insight II (Basic level)
- Rasmol (Basic level)

### SOFTWARE SKILLS

- **Microsoft office**
- **Computer language: C, C++**
- **Programming software: Matlab**
- **Design software : Adobe Photoshop, Inkscape**
- **Web design : HTML**

### WORK HISTORY

#### Online Instructor teaching chess

2012- Present

- Taught 23 students from ages 6-48 years from four continents namely North America, Australia, Europe and Asia.
- Student to represent United Kingdom at International level.

#### Quality Control Analyst at VAMA PHARMA, Inc., Nagpur, India. (Internship)

2009 (May- July)

- Estimated drug percentage in finished pharmaceutical products (tablets, syrups and capsules) using analytical techniques.

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## VOLUNTARY EXPERIENCE

### Volunteer for National Service Scheme (NSS), India

2007-2011

- Taught students from poor background in Indian schools.
- Collected one-sided paper, newspapers and cloths in IIT MADRAS campus which could then be distributed to students from rural and poor background.

## OTHER ACHIEVEMENTS

### International chess player (ELO – 2214)

- Gold Medalist at All India University chess championship, Kanpur, India, 2006.
- Member of Indian Team which finished fifth at World Youth Chess Olympiad held at Calicut, India, 2002.

## PERSONAL SKILLS

### Communication

- Handled wide range of clients by listening intently about their needs and effectively meeting their expectations.
- Strong Presentations skills: research presentations to group of forty.

### Teamwork

- Vama Pharma, Inc.: Worked in a lab of seven colleagues by supervising junior staff and coordinating with senior staff.

### Administration

- Effectively managed my time and planned my schedule during my university hours and after school hours of online chess coaching.

## REFEREE

Academic: Dr. P. Rahman, Senior Lecturer, Teesside University, School of Science and Engineering TS1 3BA, UK. (+44)1642 384669, [p.rahman@tees.ac.uk](mailto:p.rahman@tees.ac.uk).

Professional: Mr. Shishir Gorle, CEO, Global Innovsource Solutions Private Limited, Mumbai-400 079, India. (+91)22 4218 0000, [shishirg@globali.in](mailto:shishirg@globali.in).

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