PIYUSH LABHSETWAR

PRESENT ADDRESS:
Apt. No. 5, 511 E White street
Champaign
IL, 61820, USA

DATE OF BIRTH: 9th Oct. 1986

E-mail: labhset1@illinois.edu
Nationality: Indian

EDUCATIONAL QUALIFICATIONS

2009   **Indian Institute of Technology Madras, Chennai, India**
M. Tech and B.Tech in Biotechnology
GPA : 3.50

Present   **University fo Illinois at Urabana Champaign, IL, USA**
Doctoral Student, Center for Biophysics and Computational Biology
Advisors : Nathan Price and Zan Luthey Shulten
GPA : 3.96

AWARDS AND ACHIEVEMENTS

- **Robert Emerson Fellowship** in 2009 in Biophysics for 2009 at UIUC, IL.
- **National Talent Search Scholar** in 2002 (NTSE), selected by NCERT, Government Of India.
- Awarded **Girish Reddy Scholarship** in 2004 by IIT Madras, Chennai for consistent performance in School among all students in 2004 batch.
- Awarded **French Academic Exchange Scholarship (EGIDE)** in 2008 by French Embassy in India to pursue a 6 month academic project at Genopole institute.
- Stood among **top 10%** in **N.S.E.P.**(National Standard Examination In Physics) and **N.S.E.C.**(National Standard Examination in Chemistry) conducted by Indian Association of Physics Teachers and Indian Association of Chemistry Teachers respectively in 2003.
- **Gold Medal** in Science Olympiad organized by Homi Bhabha Centre for Science Education, Mumbai in 2001.

ACADEMIC PROJECTS UNDERTAKEN

- **Masters Project:** Molecular evolution of Histamine receptors
  - Under guidance of Prof. N Manoj, I studied the evolution of Histamine receptors by examining the changes at molecular level and trying to relate it to biochemical data available.
  - Using Bioinformatics tools like HMM Profile, BLAST and software tools like PHYLIP, ClustalW.
- As a part of our Biochemical Engineering course I created a **mathematical model for the process of Bioleaching** (Leaching of metals using acidophilic microorganisms) under the guidance of Prof. Suraishkumar G.K, HOD, Department of Biotechnology, IIT Madras.

COMPUTER SKILLS

- **Languages known**: JAVA, C++, C
- **Platforms**: Windows XP/98/2000
- **Software packages/tools**: Matlab, Eclipse, Cerius2, Autodock, Arguslab, VMD, Rastop, Chemsketch, KyPlot, PHYLIP, ClustalW

INTERNSHIPS

- **Epigenomics Project, Genopole, Evry, France (Guide: Francois Kepes)**   **May-Oct 2008**
  - Involved in development and implementation of algorithm to find pattern in 1D (sequence) genomes which result in 3D alignment of genes for transcriptional efficiency. This is called 3D solenoidal model of chromosome.
  - Developed Stand alone Java based software with GUI, to implement algorithm and present results in graphical form.

- The software after completion will be available for public use on the Lab website.

➢ **Institute for Molecular Biotechnology, TU Graz, Austria (Guide: Anton Glieder)   May-July 2007**
  - Involved in development of Synthetic promoters which would help in high expression of proteins in *Pichia pastoris*. It was a Industrially funded project to develop expression vectors for the company.
  - Made several forms of expression vectors to carry out lab studies with different antibiotic resistances and marker genes.

➢ **Indian Institute of Science, Bangalore, India (Guide: K.A. Natarajan)   May-June 2006**
  - Carried out growth kinetic studies and adhesion studies of Sulfur Reducing Bacteria (SRB) on quartz.

➢ **National Metallurgical Laboratory, Jamshedpur, India (Guide: B.D. Pandey)   July 2006**
  - Isolated and cultured Thermophilic microorganisms for bioleaching of Copper.
  - Studied column leaching of uranium using *Thiobacillus ferrooxidans.*