

## RESEARCH SCIENTIST

### Summary

Highly motivated Research Scientist possessing proficiency in numerous disciplines of the biotechnology and in-vitro diagnostic ( IVD ) industry.

Self starter

â€¢knowledgeable

â€¢analytical

â€¢decision maker

â€¢effective natural leader

Adaptable, Analytical, Dedicated, Driven, Effective, Focused, Hardworking, Highly motivated, Innovative Meticulous, Multi-task-oriented, Organized, Outstanding, Performance driven, Personable, Pragmatic, Proactive, Productive, Proficient, Skilled, Versatile

### Highlights

EndNote, Softmax Pro, MS-Office Suite ( Excel, PowerPoint & Word ), C/C++, Windows & Mac OS.

### Accomplishments

- To Discover and Characterize Epigenetic Modifications of Chromatin That Can Affect Organismal Lifespan (2012) Carried out reverse genetic screen to identify mutations in Histone H3 & H4 that might affect yeast growth in varying nutrient conditions.
- Identified a histone acetyl transferase, SAS2 that modifies H3K14A under nutrient stress based on microarray analysis and protein expression studies using Western Blot analysis.
- Molecular Characterization of Root Nodule Associated Bacteria (2011) Successfully isolated root nodule associated bacteria from naturally grown legumes.
- Carried out molecular characterization through isolation of plasmid DNA & subsequent restriction enzyme analysis Mass Cultivation & Optimization of Biofuel Production by Using Microalgae (2011) Accomplished optimization of mass cultivation of microalgae.
- Successfully carried out pilot scale studies of biofuel extraction from the microalgae & HPLC studies on the fuel.
- Awarded 1st place for Paper presentation at BITS-Pilani, Dubai Annual Technical Conference-2010 Awarded 2nd place for Poster presentation at the Engineering Student Renewable Energy Competition-2011 Isolation & Characterization of Bacterial Strains for Bioremediation of Soil Contaminated with Oil Spills (2009) Successfully isolated bacterial strains from soil contaminated with oil spills.
- Achieved degradation of various hydrocarbon sources which was monitored using UV/Visible Spectroscopy.
- Awarded 1st place at the BITS-Pilani, Dubai Annual Technical Conference - 2009 SKILLS Interpersonal skills: Effective communicator, quick learner and adaptable.
- Effective leader Integral part of the organizing committee for events by Chimera Biotechnology Club - BITS Pilani Dubai Communication Key communication point to management for current project at Saladax Biomedical, Inc.
- Give presentations and lead team discussions on a regular basis as a Research Scientist at Saladax Biomedical, Inc.

### Experience

Research Scientist Jun 2013 to Current

Company Name 1/4 City , State

- Develop automated immunochemical based diagnostic assays (ELISA) for oncology drugs which enable patients to receive chemotherapy drugs in doses individualized to their personal needs.
- De facto leader for a project to troubleshoot an existing diagnostic assay to improve sensitivity and reproducibility as well as to accommodate a new dosing regimen for the same drug.
- Responsible for designing and carrying out experiments in a GLP/GMP environment as well as analyzing data and presenting it.
- Key communication point to the management.
- Responsible for writing regulatory reports.
- Currently a member of another team developing an assay for an oncology drug.

Investigative Toxicology Intern Jun 2012 to Aug 2012

Company Name 1/4 City , State

- Gained expertise in preclinical drug development with emphasis on toxicology.
- Enhanced molecular biology laboratory skills in techniques such as RT-PCR, & ELISA.
- Using statistical analysis, successfully identified a gene signature from RT-PCR data for drug induced liver oxidative stress.
- Successfully carried out Assay Qualification and Validation for MesoScale Discovery Assay (ELISA).
- Enhanced communication skills through regular presentations in the organization.

Research Assistant Aug 2010 to Jan 2011

Company Name i¼ City

- Acquired substantial experience in R&D working on a project titled 'Isolation, Characterization & Cross Inoculation Studies of Rhizobia under Salinity Conditions'.
- Successfully isolated rhizobial species that survived up to a salinity of 40 dS/m, almost as high as sea water.

Intern Jun 2009 to Jul 2009

Company Name i¼ City

- Worked as part of a team in the Biochemistry, Immunology & Hematology departments.
- Successfully carried out statistical analysis of lipid profiles of patients and submitted a report on the same.

Education

Masters of Science , Biotechnology 5 2013 University of Pennsylvania GPA: GPA: 3.83/4.0 Biotechnology GPA: 3.83/4.0

Bachelor of Engineering (Honors) , Biotechnology Birla Institute of Technology & Science i¼ City GPA: GPA: 9.62/10 Biotechnology GPA: 9.62/10

Publications

Isolation and characterization of salt-tolerant rhizobia native to the desert soils of United Arab Emirates Emirates Journal of Food and Agriculture (Plant Science), 2013. Vol 25, No 2 (2013): February - Selected by Science Development Network for their highlights.

Interests

Team player - Currently part of a team, developing a diagnostic assay to detect a chemotherapy drug at Saladax Biomedical. - Volunteered for non-profit organizations like National Association of the Blind & National Cancer Rose Day.

Skills

C, C++, communication skills, designing, ELISA, GLP, GMP, Mac OS, Excel, MS-Office Suite, PowerPoint, Windows, Word, OS, presenting presentations, RT-PCR, statistical analysis, troubleshoot, Validation

Additional Information

- Team player - Currently part of a team, developing a diagnostic assay to detect a chemotherapy drug at Saladax Biomedical. - Volunteered for non-profit organizations like National Association of the Blind & National Cancer Rose Day.