Michael Williams

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Education

Northwestern University, Evanston, IL   Expected June 2014
M.S. in Biotechnology, GPA: 3.82/4.000

Purdue University, West Lafayette, IN   May 2012
B.S. in Biological Engineering; B.S. in Pharmaceutical Sciences, GPA: 3.75/4.00

Research

Fresenius Kabi USA, Skokie, IL
Analytical Development Co-Op   June 2013 - Present
- Performed circular dichroism, HPLC, TLC experiments for purposes including method development, validation, verification, and equivalency studies
- Investigated out of specification (OOS) to find a root cause and implement a corrective action

Northwestern University, Recombinant Protein Production Core, Evanston, IL
Graduate Research Assistant   Jan. - May 2013
- Executed plasmid transformations, scale up of cultures, and purifications to produce and characterize 16 monoclonal antibody Fab fragments
- Presented quarterly reports and posters detailing research progress to Northwestern colleagues

Purdue University, West Lafayette, IN
Research Assistant, Michaelson Lab   Sept. 2011 - May 2012
- Discovered that applying shear at various rates to novel excipient lead to an increase on the previously low tablet tensile strength by 30 percent

Research Assistant, Summer Undergraduate Research Fellowship   May – Aug. 2011
- Optimized Raman reporter binding concentrations for increased sensitivity of foodborne bacterial detection which resulted in refined, working assay
- Developed communication skills by continuous contact with lab instrumentation service company
- Presented final results at symposium that consisted of approximately 150 students

DuPont Pioneer, Johnston, IA
Protein Applications Intern   May – Aug. 2010
- Selected as one of ten annual recipients for the Scientist Performing Outstanding Tasks (SPOT) Award
- Developed new trait specific quantitative antibody-based assay to replace ELISA assay

Projects

Commercial Analysis of a Therapeutic for *X*
Technology Commercialization Practicum
- Consulted a biotech startup on go-to-market, IP, and regulatory strategies culminating in a commercialization document used by the client for venture capital funding search

An Analysis of Small Biotech Acquisitions and Their Effects on Innovation
Managerial Challenges in Pharma and Biotech
- Investigated the effect of small biotech acquisitions on innovation, through empirical data, to determine ideal strategic purpose and company compatibility

Evaluation of Sarilumab for Rheumatoid Arthritis
Technology Commercialization 1/2
- Built a market landscape, target product profile, and forecast model to analyze the potential of a phase III drug and give a final go/no-go decision

Leadership

Association of Biotechnology Students

President   Dec. 2013 - Present
   o   Presented to faculty a $3000 budget proposal (~300% higher than previous years' budget) which was accepted
   o   Recruited 24 second-year colleagues to assist incoming students for "Second Year Mentor Program"
   o   Organized logistics and secured $600 in funding through faculty relations for networking event in which 50 students participated (~83% participation rate)

Biological and Food Processing Engineering Club

Secretary/Treasurer   Oct. 2010 - May 2014
   o   Budgeted annual funds of $2000 between club meetings, industry trips, and social gatherings
   o   Coordinated executive committee meetings and club meetings through weekly emails, Doodle polls, and classroom announcements
   o   Prepared 5 recruiting companies events per year from food processing, agriculture, and pharma industries

Skills

Technical: cGMP, High Potent Compound (HPC) Lab Work, Multidrops, Various Immunological Assays (e.g. ELISA, SDS Page) *(Proficient)*; Bioreactors, Cell Culture, HPLC, FPLC (AC, IEX, SEC), Homogenization, Liquid Handling Robot Automation, Roller Compaction/Drying *(Intermediate)*; Extrusion, Raman Spectroscopy, Soxhlet Extraction *(Basic)*

Computer: Empower, MathCAD, Microsoft PowerPoint, Word, Softmax *(Proficient)*; Microsoft Excel, Unicorn *(Intermediate)*; JMP *(Basic)*