

Regina Izquierdo

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EDUCATION

B.S. Chemical Engineering
University of California San Diego

Expected Graduation Date: June 2015
Major GPA: 3.038

Related Coursework: Chemical Plant and Process Design, Chemical Engineering Process Laboratory, Chemical Process Dynamics and Control, Nanoengineering, Biochemical Structure and Function, Organic Chemistry Laboratory

Graduating Senior pursuing a B.S. in Chemical Engineering, research and laboratory experience in algal-produced antibodies, microbiology, and biochemistry, coursework in process design, looking to start a career as a Chemical Engineer to build upon my professional technical experience, strong research, problem solving, and analytical skills.

SKILLS/QUALIFICATIONS

- Symposium presentation experience
- Technical report writing / LaTeX
- C++/Matlab/Labview programming languages
- Mastery of Microsoft Word/PowerPoint/Excel
- Serial Cloner/Gene Designer 2.0 molecular biology and bioinformatics software
- Aspen Plus chemical process optimization software
- Lowry Protein concentration assay (Bio-rad DC assay)
- SDS-PAGE / Western Blot
- Protein Purification

RECENT PROJECTS

J. Craig Venter Institute

- Developing a cost-effective and robust design and manufacturing process for improvement of anode material of microbial fuel cell for waste-water management

Synthesis of Liposome Nanoparticles of 100nm

- Applied use of the extrusion method resulting in structural and compositional analysis of liposomes

EXPERIENCE

Research Intern, Verdant Therapeutics, San Diego CA

[July 2014 to Nov 2014]

- Research involving algal-produced antibody targeted therapies for cancer therapeutics
- Performed molecular biology through PCR, DNA extractions, Gene Assembly, and Genotyping
- Conducted cell viability assays on SKBR3 cell lines using sterile techniques
- Implemented Biochemistry techniques by performing batch purifications and FPLC purifications using a DE AKTA and Unicorn Software

Summer Cal-CAB Bioenergy Research Intern, Food and Fuel for the 21st Century, San Diego CA [July 2014 to Sept 2014]

- Research project involving generation of transgenic algal strains producing antibody target therapies
- Improved upon presentation experience by presenting research findings during Cal-CAB Research Symposium
- Gained technical experience in molecular biology and biochemistry techniques

Microbiology Lab Assistant, UCSD Bode Laboratory, San Diego CA

[July 2013 to Aug 2014]

- Assisted in research laboratory experiments involving Human Milk Oligosaccharides within breast milk
- Handled equipment involved in the isolation of oligosaccharides (e.g. lyophilizer, FPLC)
- Involved in a research project responsible for breeding and mouse handling
- Gained tissue culture experience through Cell Culture using sterile techniques

LEADERSHIP

Executive Board Member, Phi Sigma Rho (Science and Engineering Sorority) UCSD

[Feb 2013 to Present]

- Awarded position of Assistant Director of New Membership Education through demonstration of exceptional leadership and communication skills as well as mentorship capabilities
- Responsible for educating and mentoring new members throughout their new membership term

Member, UCSD SWE (Society of Women Engineers) UCSD

[Oct 2014 to Present]

- Participate in career-building workshops and informational sessions to encourage women in S.T.E.M. fields

AWARDS

Jones Hamilton Co. Chemistry and Engineering Scholarship & Cargill Scholarship

[June 2011]

- Awarded for academic achievement and dedication towards the area of Chemistry and Engineering