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| (510) 449-2801 |

**Ira Horecka**

***Professional Experience***

**Five Prime Therapeutics**

Biotherapeutics Department

Research Associate II Dec. 2017 – Sept. 2019

* Implemented Golden Gate cloning for high-throughput recombinant protein and antibody synthesis.
* Pioneered a transient transfection protocol for rapidly evaluating protein expression and established a technique that boosts expression and uses 50% or less DNA than required in standard protocols.
* Served as the molecular biology lead in developing automated DNA dilution workflows and organizing collaborative projects with the systems engineering department.
* Developed automation scripts on TECAN, Biomek, Qpix and served as the power user to train others.
* Scripted automated tasks using Python and performed statistical and graphing analysis using R.
* Promoted to Research Associate II after 15 months for stellar performance and collaboration.

**Bayer Pharmaceuticals**

Global Biologics Development

Associate Scientist Nov. 2016 – Dec. 2017

* Developed an elution buffer formula for a challenging affinity chromatography step in Q1 and Q2 that improved product recovery from 10% to 75%.
* Collaborated with a team of scientists to design and document a scalable downstream process that transitioned from bench scale in Q1 to pilot scale in Q4.

**University of California, Santa Cruz**

Department of Molecular, Cell, and Developmental Biology

Junior Specialist Mar. 2015 – Aug. 2016

* Conducted experiments that contributed to the discovery of a conserved signaling network that links cell cycle progression to cell membrane growth in *S. cerevisiae*.
* Performed densitometry and quantitative analysis on monoclonal and polyclonal western blots to assess phosphorylation states of membrane growth dependent kinases.

***Education***

**University of California, Santa Cruz**

Bachelor of Science, Biochemistry & Molecular Biology Sept. 2012 – Jun. 2016

***Skills***

* Programming and data analysis (HTML, CSS, jQuery, Python, R, Excel) (https://irahorecka.com, https://github.com/irahorecka)
* Molecular biology (Golden Gate cloning, high-throughput DNA handling, Sanger sequencing)
* Protein chemistry (purification and analytical chromatography, ELISA, Expi293 transient transfection)
* Creating protocols on automated liquid handlers
* Public speaking (group and department meetings, inter-department collaborations)
* Fluent in Japanese

***Publications***

1. A conserved signaling network monitors delivery of sphingolipids to the plasma membrane in budding yeast

(Jesse C Clarke et al., 2017)

**Mol Bio Cell** 28(20): 2589 - 2599

1. Exploring Genetic Suppression Interactions on a Global Scale

(Jolanda van Leeuwen et al., 2016)

**Science** 354(6312): pp. aag0839