

Melissa Baez

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Education

San Diego State University

Bachelor of Science in Cell and Molecular Biology, May 2022.

- Associate's Degree in Biological Sciences (Cuyamaca College, 2020)
- High School Diploma

Publication

Alker A., et al., 2022. Draft Genome Sequence of Nereida sp. Strain MMG025, Isolated from Giant Kelp. Microbiology Resource Announcements.

<https://journals.asm.org/doi/10.1128/mra.00122-22>

Work Experience

- **Research Assistant I at the Salk Institute for Biological Studies (1/24/2022-Present):** At Salk, I work in Dr. Wolfgang Busch's Plant Cell and Molecular Biology laboratory. I am currently assisting with a seedling transplant experiment to determine the effects of genetic mutations on root growth of *Arabidopsis thaliana* planted seedlings. In addition, I perform DNA and RNA extractions of plant material, assist with molecular cloning, as well as PCR and gel electrophoresis of the finished PCR products.
- **Intern at Cibus US LLC (6/14/2021-8/13/2021):** At Cibus, I worked in their Cell Biology department, where I performed *in vitro* plant cell/tissue culturing, seed germination, and soil transfer of plants.
- Peer Mentor for the STEM Guided Pathways Program at Cuyamaca College (8/2018-4/2019)
- Customer Lead at Rady Children's Ice Rink presented by San Diego Ice Arena (11/2018-1/2020)

Summary of Skills and Qualifications

- Genotyping (DNA extraction, PCR, gel electrophoresis).
- *In vitro* plant cell/tissue culturing.
- Sterile technique (laminar flow hoods and biological safety cabinets).
- Seed sterilization and germination.
- Microbiology lab experience (aseptic technique, gram staining, streak plating).
- Molecular biology lab experience (transforming bacteria with GFP).
- Experience working with R programming language for statistical analyses.
- Highly proficient in Microsoft Word, Excel, and PowerPoint.
- Strong biology, math, and English skills.

Achievements

- Associate of Science: Biological Sciences (CSU GE Breadth)
- Associate of Science: University Studies- Science and Mathematics
- Associate of Science: Biology For Transfer (AS-T) IGETC CSU (STEM)