

Kevin Green

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Education

- Present **Master of Science in Cellular and Molecular Biology**
San Diego State University, San Diego, CA
- May 2016 **Bachelor of Science in Biology**
San Diego State University, San Diego, CA

Research Experience

- 2016 – Present **San Diego State University**
Masters of Science in Cellular and Molecular Biology Candidate
Laboratory of Professor Forest Rohwer, PhD, and Linda Wegly-Kelly, PhD
Research Highlight
- Attempt to elucidate the interaction of bacteriophage and microbial community in shifting mucosal density
 - Determine the microbial community lifestyle in mucosal environments
- 2015 – 2016 **The Salk Institute for Biological Studies**
California Institute for Regenerative Medicine (CIRM) Trainee
Laboratory of Genetics, Professor Inder Verma, PhD
Research Highlight
- Assist in a proof of concept project with the goal of creating a gene therapy for individuals suffering from Hemophilia B
 - Correction of the mutation responsible for disease expression of Hemophilia B via CRIPSR/Cas9 systems
 - Differentiation of iPSCs into hepatocytes for implantation into patients
- 2014 – 2015 **Neuropore Therapies**
In Vivo Research Assistant
In Vivo Group
Research Highlight
- Conduct, analyze, and report behavioral and biochemical experiments to advance drug-discovery programs targeting neurodegenerative disease-related protein aggregation
- 2013 – 2015 **San Diego State University**
Undergraduate Researcher
Laboratory of Professor Forest Rohwer, PhD, and Linda Wegly-Kelly, PhD
Research Highlight
- Describe the diversity and function of the microbial community across the Pacific Ocean in order to better understand coral and microbial interactions
- Undergraduate Research Assistant*
Laboratory of Professor Todd Anderson, PhD
Research Highlight
- Assist graduate students in data collection off the coast of Southern California to determine the efficacy of marine protected areas for rocky reef fishes
 - Study the habitat attributes and the distribution, abundance, and size structure of rocky reef fishes at a large spatial scale

Publications

1. Silva, G. G. Z., **Green, K. T.**, Dutilh, B. E., & Edwards, R. A. (2015). SUPER-FOCUS: A tool for agile functional analysis of shotgun metagenomic data. *Bioinformatics (Oxford, England)*, btv584. doi:10.1093/bioinformatics/btv584
2. Knowles, B., C. B. Silveira, B. A. Bailey, K. Barott, V. A. Cantu, A. G. Cobián-Güemes, F. H. Coutinho, E. A. Dinsdale, B. Felts, K. A. Furby, E. E. George, **K. T. Green**, G. B. Gregoracci, A. F. Haas. et al. "Lytic to Temperate Switching of Viral Communities." *Nature* 531, no. 7595 (March 16, 2016): 466–70. doi:10.1038/nature17193.

Workshop Training

- August 2015 **The Scripps Research Institute Stem Cell Biology Techniques Course**
- Learned the principals and techniques pertaining to the creation, maintenance, and differentiation of stem cells
- June 2015 **San Diego State University Bioinformatics Workshop**
- Discussed large sequencing data manipulation and analysis using Linux and Python languages

Awards

2015 California Institute for Regenerative Medicine Bridges to Stem Cell Research Award

Poster Presentations

- Creating Patient-Specific Stem Cell Therapies for Hemophilia B via CRISPR/Cas9 Gene Correction. International Society for Stem Cell Research Annual Meeting – San Francisco, CA. June 2016 & SRS - San Diego State University. San Diego, CA, March 2016
- Determining the efficacy of novel compounds aimed at ameliorating Parkinson's disease via alpha-synuclein stabilization. Student Research Symposium (SRS) – San Diego State University. San Diego, CA. March 2015

Technical experience

- Hands on experience with Illumina MiSeq next generation sequencing (NGS) technologies
- NGS workflow, from sample collection and processing through data analysis
- In vivo/in vitro sample collection and processing (cultured cells, DNA, RNA, tissues, protein) for biochemical assays
- Induced pluripotent stem cell (iPSC) culture and maintaining multiple cell lines
- CRISPR/Cas9 system gene knock-in
- PCR troubleshooting and assay optimization
- Mouse behavioral testing scoring
- AAUS Scientific Diving Certified
- Data collection via SCUBA

Affiliations

- 2015 – 2016 California Institute for Regenerative Medicine (CIRM), Bridges to Stem Cell Research Trainee
- Conduct novel research in the field of stem cell biology under the supervision of mentors at host sites to gain specialized training and skills applicable to stem cell biology.
- 2013 – 2016 San Diego State University Diving Control Board, Undergraduate Representative

- The diving safety board is responsible for overseeing all diving operations occurring under the jurisdiction of San Diego State University.

Other employment experience

2007 – 2014 **City of San Diego**

Pool Guard II

- Responsible for beginning pool operations daily, ensuring patron safety, teaching swimming lessons for ages 3 years to adults, coaching the community water polo team