

John Edward Greer

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Education

University of San Francisco

January 2013-May 2015

Professional Science Masters, Biotechnology | GPA 3.8

The PSM degree is an interdisciplinary masters degree program bringing together instruction from the departments of biology, business and computer science with emphasis on the biotechnology and pharmaceutical industry.

University of California, San Diego

September 2003-June 2009

Bachelors: Biopsychology/Biology

Certifications

Certificate of Completion in Applied Biotechnology | SD Miramar College

January 2012-December 2012

350+ hours in current biotechnology practice and theory, in-depth instruction in molecular biology techniques in DNA and protein methods, tissue culture, bioinformatics, and general leadership elements emphasized in the industry.

Experience

University of California, San Francisco | Eric A. Collisson Lab

March 2013-Present

Research Specialist/Lab Manager

- Conducted an *in vitro* shRNA screen to discover candidate KRAS essential genes in lung and pancreatic cancer, identifying two candidate proteins for further investigation.
- Developed a lentiviral system to screen *in vivo* for novel driver genomic anomalies associated with lung adenocarcinoma, validated working system with four oncogenes.
- Contributed to multiple projects alongside lead scientists, generating data for preparation of scientific manuscripts:
 - Novel driver gene in lung cancer: MET exon 14 skipping mutation
 - Interrogate role of chromatin remodeler, BRG1, in lung cancer
 - High throughput siRNA screen to determine role of noncoding RNAs in epithelial adherens junction formation
- Lead clinical tissue acquisition and banking efforts for downstream genomic analysis of human lung and pancreatic cancer patient samples
 - Coordinate with clinical staff and surgeons
 - Processing samples for next generation sequencing to identify novel aberrant genomic events driving patient cancer
- Managed daily laboratory activities among team of research scientists and technicians
 - Ordering and financial record keeping
 - Comfortable negotiating supply pricing and vendor interaction
 - Maintain good working order of laboratory equipment

- Safe shipping and receipt of laboratory packages, including patient samples and cell lines
- Led hiring effort, screening and selection of a laboratory technician

FABRUS | Antibody Therapeutic Discovery

September 2011-January 2013

Research Associate

- Contributed to production and purification of a 10,000 compound/antibody library platform.
- Conducted high-throughput screen assessing binding affinity of library against three G protein-coupled receptor targets of interest utilizing flow cytometry and fluorescently labeled antibodies.
- Led in vitro testing and validation of candidate pool in commercially available PathHunter™ B-Arrestin Assay, deriving small number of functionally active antibodies for affinity maturation and scale up.

The Scripps Research Institute, La Jolla | Peter G. Schultz Laboratory

May 2008-September 2011

Research Technician

- Under guidance of lead scientist, coordinated time and effort contributing to publication: *"A single mutation in the first transmembrane domain of yeast COX2 enables its allotopic expression."*
- Trained in bacteria and yeast biology, molecular cloning and DNA manipulation, protein expression systems and western blot analysis
- General lab management duties with consideration for time and overall need for a large and productive scientific laboratory, including reagent preparation, inventorying biological materials (i.e. cell lines, plasmids, protein stocks, etc.), lab ordering and vendor relations

Publications

A single mutation in the first transmembrane domain of yeast COX2 enables its allotopic expression.

Lubica Supekova, Frantisek Supek, John E. Greer, and Peter G. Schultz. PNAS, March 16, 2010, vol. 107, no. 11, 5047-5052

Temporal and Dosage-Dependent Effects of BRG1 in Lung Cancer Initiation, Progression and Maintenance. (Under Revision)

Shivani Malik^{*1}, Nilotpal Roy^{2*}, Wei Wu³, Shon Green³, Ora Kuvshinova¹, John E. Greer¹ Joshua Campbell ^{4,5}, Martin McMahon^{3,6}, Lisa Belmont^{7,8}, Kuang-Yu Jen⁹, Matthias Hebrok², Diana Hargreaves¹⁰, Eric A. Collisson¹

MET exon 14 Mutations Encode a Hyperactive Kinase and Therapeutic Target in Lung Adenocarcinoma. (Accepted Cancer Research 2017)

Xinyuan Lu¹, Nir Peled², John Greer¹, Wei Wu¹, Peter Choi³, Alice Berger³, Sergio Wong⁴, Kuang-Yu Jen⁵, Youngho Seo⁵, Yan Guo⁶, Byron Hann¹, Matthew Meyerson³, Eric A. Collisson^{1*}

Skills

- **Molecular Biology:** gene and recombinant DNA cloning; genomic PCR; cloning full length genes by PCR; qPCR; subcloning to expression vectors; DNA sequencing analysis; site directed mutagenesis; DNA isolation from bacteria, yeast, and mammalian cells and RNA extraction from mammalian cells.
- **Biochemistry:** recombinant protein expression and purification by affinity column chromatography and dialysis; protein quantification by BCA, Bradford and Lowry Assay; SDS-PAGE; Western Blot; ELISA.

- **Cell Biology:** aseptic technique, growth, maintenance and liquid nitrogen storage of cell lines; primary cell culture; use of automated cell counter and haemocytometer; transient and stable DNA transfection; FACS and flow cytometry; cell lysis techniques; immunofluorescence; RNAi(with siRNA, shRNA, and lentivirus); multiwall plate-based cytotoxicity, proliferation and viability, chemotaxis/cell migration assays; Pathhunter b-arrestin GPCR assay platform; cell cycle analysis.
- **Animal Skills:** Mouse handling, care, and husbandry; Genotyping; IP and tail injection; viral intranasal infection; tissue collection: lung and pancreas; ethical conduct in care and use of animals training
- **Instrumentation:** confocal, bright field, and fluorescent microscopy; fluorometer and plate reading assays
- **Computer Software:** Microsoft Word, Excel, and Power Point; FloJo; SerialCloner and APE
- **Computer Programming:** Python, R

Volunteer

San Francisco SPCA | Dog Socializing and Training

- Socialize and train dogs
- Ensure dogs get their daily walks
- Help in admin tasks
- Assist in adoption matchmaking