

## CIRRICULUM VITAE

**Name:** Robert Straub, BS

**Education:**

B.S. Western New England University (General Biology) (Chemistry minor) 2013

**Career/Academic Appointments:**

2019-Present Research Assistant II, Liu Lab, The Jackson Laboratory for Genomic Medicine, Farmington, CT.

2015-2019 Research Assistant 2 MS, Department of Dermatology, Yale University School of Medicine, New Haven, CT

2013-2015 Post-Grad Research Associate, Department of Dermatology, Yale University School of Medicine, New Haven, CT

2013 Research Assistant, Department of Dermatology, Yale University School of Medicine, New Haven, CT

2013 Functional Genomics Research, Western New England University, Springfield, MA

2008-2012 Cart Attendant & Starter, Tunxis Plantation Country Club, Farmington, CT

**Research Experience:**

- Primary Tissue/cell culture
- Drug studies important for cancer research such as cell proliferation (2D assay), and matrigel (3D assay)
- Western Blotting and protein assay
- Combination studies involving treatment of cell lines with multiple drugs
- Cell Migration Assay to observe chemotaxis
- Cell Apoptosis assay by measuring caspase 3/7 activity
- Immunohistochemistry with cancer cell lines
- Isolating DNA/RNA
- Using DNA/RNA to run PCR and determine specific gene mutations
- Site Directed Mutagenesis
- Gene expression and rtPCR
- Bacterial culture including transformation of DNA into competent cells, growth, and isolation of plasmid DNA
- Vector design, Gateway Cloning
- Producing Lentivirus in 293T cells

- Transfections in cancer and normal cell cultures
- Bioinformatics: assisting the P.I. with organizing and analyzing data to prepare for future experiments/studies
- Computer work in Microsoft Office, Graphpad Prism, Adobe Photoshop/Illustrator, MacVector, and Geospiza Finch TV
- Processing blood from patients involved clinical trails
- Isolating and culturing of melanocytes using foreskins from newborn

## **Publications**

### Journal Articles

- [1]-Michael Krauthammer, Yong Kong, Antonella Bacchiocchi, Perry Evans, Natapol Pornputtpong, Cen Wu, James P McCusker, Shuangge Ma, Elaine Cheng, **Robert Straub**, Merdan Serin, Marcus Bosenberg, Stephan Ariyan, Deepak Narayan, Mario Sznol, Harriet M Kluger, Shrikant Mane, Joseph Schlessinger, Richard P Lifton & Ruth Halaban. (2015). Exome sequencing identifies recurrent mutations in NF1 and RASopathy genes in sun-exposed melanomas. *Nature Genetics*. July 27, 2015.
- [2]- Young H. Lim, Antonella T. Bacchiocchi, Jingyao Qiu, **Robert Straub**, Anna Bruckner, Lionel Bercovitch, Deepak Narayan, Jennifer McNiff, Christine J. Ko, Leslie Robinson-Bostom, Richard Antaya, Ruth Halaban, Keith A. Choate. (2016). GNA14 somatic mutation causes congenital and sporadic hemangiomas by MAPK activation. *American Journal of Human Genetics*. July 28, 2016.
- [3]- Halaban R, Bacchiocchi A, **Straub R**, Cao J, Sznol M, Narayan D, Allam A, Krauthammer M, Mansour TS. (2019). A novel anti-melanoma SRC-family kinase inhibitor. *Oncotarget*. March 19, 2019.

## **Contact Information**

Robert Straub

Email: rob.straub@jax.org