Tali Herzka

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Experience

Feb 2016 - Present

Verily Life Sciences, South San Francisco, CA
Laboratory Applications Analyst / Software Developer

- Contributed to the design and implementation of an internal Laboratory Information Management System (LIMS) from the ground up
- Worked cross-functionally with laboratory scientists and engineers to translate scientific needs and priorities into product requirements and implement custom functionality for each laboratory application
- Customized and expanded the functionality of an off-the-shelf LIMS software solution using python

Oct 2014 - Present

Transcriptic, Menlo Park, CA
Application Scientist

- **Field Applications**
  - Interfaced with customers and used a combination of bench experimentation and Python scripting to translate and execute scientific protocols on Transcriptic's automation platform
  - Collaborated with mechanical and software engineering teams to develop features that ensure customer success and enhance the automated laboratory and LIMS platform
  - Provided customer support and wrote and maintained platform documentation for both common users and developers at developers.transcriptic.com
- **Software Engineering and Developer Evangelism**
  - Contributed to, documented and maintained an open source CLI and Python client library for interacting with Transcriptic's API
    item Contributed to and maintained Autoprotocol, an open standard for expressing scientific protocols developed at Transcriptic, including its associated python library GitHub repo and its website, autoprotocol.org
    item Acted as community manager on Transcriptic's forum and general point of contact for all Autoprotocol and Transcriptic API developer inquiries

Jul 2011 - Jun 2014

Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
Laboratory Technician II • Dr. Lloyd C. Trotman's Laboratory

- Worked in collaboration with postdoctoral fellows to research gene pathways affecting the progression of prostate cancer using *in vitro* and *in vivo* techniques
- Hands-on experience with myriad bench techniques including molecular cloning, tissue culture of cancer cell lines and embryonic fibroblasts, virus production, protein quantification and Western blotting
- Organized and carried out preclinical trials with mice while physically and computationally monitoring disease progression and colony population dynamics
- Optimized 3D bioluminescent imaging of metastases in genetically engineered mice

Education

- **Dev Bootcamp** — **San Francisco, CA**
  Jul. 2014 - Oct. 2014
  - Studied test-driven, full stack Ruby on Rails development.
  - Other skills acquired: principles of object oriented design, relational database design and querying (SQL), front end HTML, CSS, and Javascript, pair coding and development in a team environment
- **McGill University** — **Montreal, Quebec**
  B.Sc. Biology — *2007-2011*
  - Emphasis on Genetics and Molecular Biology
  - Electives in computer science (UNIX, data structures and algorithms in C and Java)

Relevant Skills

- **Technical:**
  - Python, UNIX, AWS, GCP, Ruby on Rails, SQL, Figma, Sketch, source control, agile development practices, information architecture, product management
- **Laboratory:**
  - preclinical trials, animal husbandry and surgery, mammalian tissue culture, molecular cloning, virus production, protein purification, western blotting, immunohistochemistry, microscopy, BLI of animal tumor models

Publications

Articles

- Miles, B, **Herzka, T**. **Standards for Protocols: The Quickest Way to Reproducibility.** Biocoder. 2015 Oct;9:25-34.

Peer-Reviewed Journal Articles

- Naguib A, Mathew G, Reczek CR, Watrud K, Ambrico A, **Herzka, T**, Salas IC, Lee MF, El-Amine N, Zheng W, Di Francesco ME, Marszalek JR, Pappin DJ, Chandel NS, Trotman LC.**Mitochondrial Complex I Inhibitors Expose a Vulnerability for Selective Killing of Pten-Null Cells**. Cell Rep. 2018 Apr 3;23(1):58-67
- Chen M, Nowak DG, Narula N, Robinson B, Watrud K, Ambrico A, **Herzka, TM**, Zeeman ME, Minderer M, Zheng W, Ebbesen SH, Plafker KS, Stahlhut C, Wang VM, Wills L, Nasar A, Castillo-Martin M, Cordon-Cardo C, Wilkinson JE, Powers S, Sordella R, Altorki NK, Mittal V, Stiles BM, Plafker SM, Trotman LC.**The nuclear transport receptor Importin-11 is a tumor suppressor that maintains PTEN protein**. J Cell Biol. 2017 Mar 6;216(3):641-656
- Nowak DG, Cho H, **Herzka, T**, Watrud K, DeMarco DV, Wang VM, Senturk S, Fellmann C, Ding D, Beinortas T, Kleinman D, Chen M, Sordella R, Wilkinson JE, Castillo-Martin M, Cordon-Cardo C, Robinson BD, Trotman LC. **MYC Drives PTEN/Trp53-Deficient Proliferation and Metastasis due to IL6 Secretion and AKT Suppression via PHLPP2.**Cancer Discov. 2015 Jun;5(6):636-51.
- Cho, H, **Herzka, T**, Stahlhut, C, Watrud, K, Robinson, BD, Trotman, LC. **Rapid in vivo validation of candidate drivers derived from the PTEN-mutant prostate metastasis genome**. Methods. 2015 May;77-78:197-204.
- Naguib, A, Bencze, G, Engle, D, Chio, IIC, **Herzka, T**, Watrud, K, Bencze, S, Tuveson, DA, Pappin, DJ, Trotman, LC. **Mutations in p53 change phosphatidylinositol lipid backbones**. Cell Rep. 2015 Jan 6;10(1):8-19.
- Cho, H, **Herzka, T**, Zheng, W, Qi, J, Bradner, JE, Robinson, BD, Castillo-Martin, M, Cordon-Cardo, C, Trotman, LC. **RapidCap, a novel GEM model for analysis and therapy of metastatic prostate cancer reveals Myc as a driver of Pten-mutant metastasis**. Cancer Discov. 2014 Mar;4(3):318-33.