Tali Herzka

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Experience

Oct 2014 - Present

Transcriptic, Menlo Park, CA
Application Scientist

- **Applications**
  - Interface with customers and use a combination of bench experimentation and Python scripting to translate and execute scientific protocols on Transcriptic's automation platform
  - Collaborate with mechanical and software engineering teams to develop features that ensure and enhance customer success with the platform
  - Provide customer support, write and maintain platform documentation for both common users and developers at developers.transcriptic.com
- **Programming and Developer Evangelism**
  - Contribute to, document and maintain an open source CLI and Python client library for interacting with Transcriptic's API
  - Act as community manager on Transcriptic's forum and general point of contact for all developer-related inquiries
  - Contribute to and maintain Autoprotocol, an open standard developed at Transcriptic for expressing scientific protocols in order to increase portability and reproducibility, including associated GitHub repos, websites, and documentation
  - Contribute, document, and maintain autoprotocol-python, an open source python library for generating Autoprotocol

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** — *2007-2011*
  B.Sc. Biology
  - Emphasis on Genetics and Molecular Biology
  - Electives pertaining to programming and algorithms in C and Java

Relevant Skills

- **Technical:**
  - Python, UNIX, Jupyter/IPython, Ruby on Rails, Jekyll, SQL, HTML/CSS, LaTeX, git, arcanist, Python package creation and distribution, automated documentation generation, MongoDB
- **Laboratory:**
  - molecular cloning, animal husbandry and surgery, Mammalian Tissue Culture, virus production, protein purification, Western blotting, immunohistochemistry, microscopy, BLI of animal tumor models

Articles

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

Peer-Reviewed Journal Articles

- 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.