

Bridging Science, Healthcare and Business

The analytic and communication abilities gained through research and discovery at the Hospital for Sick Children, combined with presentation and business analytic skills acquired during my recent MBA, will be at your service. I am equipped with an analytical mind, strategic thinking abilities, an entrepreneurial 'can-do' spirit, and the capability to build relations with multiple stakeholders.

Analytical Skills:

- Using statistical and graphical tools to interpret large datasets using Excel, R and SAS
- Experience with literature and policy analysis, including interpretation of clinical and financial data

Leading and Communicating:

- Attentive listener
- Excellent ability to communicate complex ideas using oral and written media
- Influential presenter of insights and findings

Project Management Skills:

- Ability to identify key issues, set priorities and allocate resources
- Ability to multitask and meet tight timelines
- Strong team player with experience in leading cross functional teams

Education

Masters of Business Administration Management of Technology and Innovation Ryerson University, Toronto	2014-2015 GPA: 3.85
Doctor of Philosophy in Medical Genetics RNA recognition by SAM domains University of Toronto	2000-2006
Bachelor of Science Biological Sciences /Electrophysiology Hebrew University of Jerusalem	1996-1999 Grade: 90.24

Experiences

Business Lead - SpineSonics, Medical Device Startup, Toronto, ON **2015**
Conducting medical market research and business development for a novel surgical navigation device. Writing an insightful business plan and pitching it to industrial partners and investors.

Research Associate -Hospital for Sick Children, Toronto, ON **2006-2014**
At the laboratory of Dr. Peter Dirks, I collaborated with neurosurgeons to compile, integrate and analyze genomics data derived from brain tumour patients. Isolated neural stem cells from healthy and cancerous brains. Led a team of three in drug screening and pre-clinical validation of promising small molecule and lentiviral leads. Identified new drug targets for brain tumor therapy.

PhD Researcher - Mount Sinai Hospital, Toronto, ON

2000-2006

Conducted biochemical, structural and bioinformatics analysis of protein-RNA interactions in the laboratory of Dr. Frank Sicheri, resulting in three molecular structures and three publications in top tier journals.

Awards

Rotman Business School – Healthcare Case competition	2014
Second place as part of a team	
Ryerson University	2014
Ted Rogers Graduate Entrance MBA Scholarship	
International Society of Stem Cell Research	2013
Presentation and travel award	
Canadian Stem Cell Network	2012
Presentation and travel award	
International Society of Stem Cell Research	2011
Presentation and travel award	
National Cancer Institute of Canada	2007
Post doctorate research fellowship award	

Activities

Running, Cycling, Swimming: Races and Triathlons from 10K up to half ironman

Meditation and Mindfulness: Teaching and leading meditations

Publications

Dolma S. et al., (2016) Inhibition of Dopamine Receptor D4 Impedes Autophagic Flux, Proliferation, and Survival of Glioblastoma Stem Cells. *Cancer Cell*. 29(6):859-73

Vanner R.J., et al. (2014) Quiescent Sox2⁺ Cells Drive Hierarchical Growth and Relapse in Sonic Hedgehog Subgroup Medulloblastoma. *Cancer Cell*, 26(1), 33-47.

Northcott, P.A., et al. (2012) Structural variation across 1,000 medulloblastoma genomes. *Nature*. 488(7409):49-56

Aviv T., Ward R., Lee L., Clarke I., Ketela T., Moffat J., Dirks P. “Essential kinases revealed in comparative functional genomic RNAi screen of embryonic and neoplastic neural stem cells” Poster selected for travel award at the annual meeting of the Canadian stem cell network, Montreal, Quebec, Canada, April 29, 2012

Aviv T., Vener R., Zhu X., Ward R., Lee L., Clarke I., Abraham J.K., Dirks P., “Targeting Sox2 positive Cancer Stem Cells in Medulloblastoma” Poster selected for travel award at the annual meeting of the Canadian stem cell network, Montreal, Quebec, Canada, April 29, 2012

Aviv T., Ward R., Lee L., Clarke I., Ketela T., Moffat J., Dirks P. “Comparative functional genomic RNAi screen of embryonic and neoplastic neural stem cells” Oral presentation at the International Society of Stem Cell Research conference, Toronto, Ontario, Canada, June 2011

Aviv, T., Lin, Z., Ben-Ari, G., Smibert, C.A., and Sicheri, F. (2006). Sequence specific recognition of RNA hairpins by the SAM domain of Vts1p. *Nature Structural and Molecular Biology*. 13:168-176

Aviv, T., Amborski, A.N., Zhao, X.S., Kwan, J.J., Johnson, P.E., Sicheri, F., and Donaldson, L.W. (2006). The NMR and X-ray structures of the *Saccharomyces cerevisiae* Vts1 SAM domain define a surface for the recognition of RNA hairpins. *Journal of Molecular Biology*. 356:274-9

Aviv, T., Lin, Z., Lau, S., Rendl, L.M., Sicheri, F., Smibert, C.A. (2003). The RNA-binding SAM domain of Smaug defines a new family of post-transcriptional regulators. *Nature Structural Biology*. 8:614-621