

Yaniv Erlich

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One Bungtown Rd.
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Education

PhD candidate, 2006-present
Watson School of Biological Sciences
Cold Spring Harbor Laboratory, NY, USA
Advisor: Greg Hannon

Bachelor of Science, 2003-2006
Tel-Aviv University, Tel-Aviv, Israel
Interdisciplinary Program of Neuroscience at Tel-Aviv University
Track: Computational Neuroscience
Double Major in Biology (*Summa cum laude*) and Psychology (*Summa cum laude*)

Patents

1. **Harnessing High Throughput Sequencing for Multiplexed Specimen Analysis** (Provisional). *With Greg Hannon*. 2009
2. **Self-optimized Base caller for Next-Generation Sequencing Platforms** (Provisional). *With Greg Hannon and Partha Mitra*. 2008

Journal Publications

1. **Compressed Genotyping**. Erlich Y, Gordon A, Brand M, Hannon GJ, Mitra PP. Submitted to *IEEE Transaction on Information Theory*, 2009.
2. **Cell Contact-Dependent Acquisition of Cellular and Viral Non-Autonomously encoded Small RNAs**. Rechavi O*, Erlich Y*, Amram H*, Flomenblit L, Karginov FV et al. Submitted to *Genes and Development*. 2009.
(* equal contributor)
3. **DNA Sudoku - harnessing high-throughput sequencing for multiplexed specimen analysis**. Erlich Y, Chang K, Gordon A, Ronen R, Navon O, Rooks M, Hannon GJ. *Genome Research*. 2009 (cover article)
4. **Alta-Cyclic: a self-optimizing base caller for next-generation sequencing**. Erlich Y, Mitra PP, Delabastide M, McCombie WR, Hannon GJ. *Nature Methods*. 2008.
5. **A role for microRNAs in maintenance of mouse mammary epithelial progenitor cells**. Ibarra I, Erlich Y, Muthuswamy SK, Sachidanandam R, Hannon GJ. *Genes and Development*.. 2007.

- Invited Talks**
1. Supercomputing International Conference. Nov 2009 (planned)
 2. Allerton Conference on Communication, Control and Computing. Sep 2009 (planned)
 3. UCSD Next-Generation Sequencing and Informatics Symposium. Nov 2008.
 4. Illumina, Inc. Aug 2008.
 5. Keystone Symposia – Cancer Genomics and Epigenomics. Feb 2008

Professional Experience

Research leader. 2002-2006
Special Technology Group, IDF military intelligence. Israel
Final Rank – Captain.

Vulnerability researcher (part time). 2005-2006
Vaorta Ltd. Israel

Head of Group. 2000-2001
Signal Analysis Group, IDF military intelligence. Israel

Team leader. 2000
Signal Analysis Group, IDF military intelligence. Israel

Signal Analyst. 1998-2000
Signal Analysis Group, IDF military intelligence. Israel

- Awards**
- ACM/IEEE-CS High Performance Computing Fellowship, 2008
 - Goldberg-Lindsay fellowship, 2006-2010
 - Keystone symposia travel scholarship, 2008
 - Wolf Foundation scholarship for excellence in exact sciences, 2006
 - Biology Dean's list, 2006
 - Psychology Dean's list, 2006
 - Emmanuel Ax scholarship for participating in CSHL Undergraduate Research Program, 2005
 - Biology Dean's list, 2005

IDF scholarship for outstanding officers, 2005

“Makor Haim” IDF award granted for a technological breakthrough, 2004

Extended Research Project scholarship – Tel Aviv University, 2004

“Makor Haim” IDF award granted for a technological breakthrough, 2001