

# Curriculum Vitae

Niv Sabath

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## Education

1/2005 – 12/2009 Ph.D., Biology, Molecular evolution of overlapping genes, University of Houston.

10/1999 – 8/2003 B.Sc., Computer Science, in the Bioinformatics track, Ben-Gurion University of the Negev, Israel.

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## Employment

1/2004 – 9/2004 Tel-Aviv University, Department of Computer Sciences, Programmer.

8/2003 – 12/2003 Rosetta Genomics, Bioinformatics Department, database administrator.

4/2001 – 7/2003 Ben-Gurion University, Department of Computer Sciences, Research assistant.

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## Publications

- [Sabath, N.](#), Price, N., and Graur, D. A potentially novel overlapping gene in the genomes of Israeli acute paralysis virus and its relatives. *Virology Journal*, 2009.
  - Schneider, A., Souvorov, A., [Sabath, N.](#), Landan, G., Gonnet, GH., and Graur, D. Estimates of positive Darwinian selection are inflated by errors in sequencing, annotation, and alignment. *Genome Biology and Evolution*, 2009.
  - [Sabath, N.](#), Landan, G., and Graur, D. A Method for the Simultaneous Estimation of Selection Intensities in Overlapping Genes. *PLoS ONE*, 2008.
  - [Sabath, N.](#), Graur, D., and Landan, G. Same-strand overlapping genes in bacteria: compositional determinants of phase bias. *Biology Direct*, 2008.
  - Elhaik, E. \*, [Sabath, N.](#) \*, and Graur, D. The "inverse relationship between evolutionary rate and age of mammalian genes" is an artifact of increased genetic distance with rate of evolution and time of divergence. *Molecular Biology and Evolution*, 2006. \*Equal contribution.
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## Invited Talks

- “Discovery of a novel overlapping gene in the genome of the Israeli acute paralysis virus.” Darwin's Living Legacy: A Conference on Evolution and Society, Alexandrina, Egypt, 2009.
- “Using signature of selection to detect functional overlapping genes.” The Annual Meeting of the Society for Molecular Biology and Evolution, Iowa City, Iowa, 2009.

- “Phase bias in overlapping genes reveals an association between GC content and overlap frequency.” The Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain, 2008.
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## Poster Presentations

- Sabath, N., Landan, G., and Graur D. Estimating the intensity of selection in overlapping genes. The Annual Meeting of the Society for Molecular Biology and Evolution, Iowa City, Iowa, 2009.
  - Sabath, N. and Graur D. A method for the detection of functional overlapping genes. The 13th Annual International Conference on Research in Computational Molecular Biology (RECOMB), Tucson, Arizona, 2009.
  - Sabath, N. Landan, G., and Graur D. Compositional factors account for phase bias in same-strand overlapping genes. Keystone Symposium on Molecular Evolution as a Driving Force in Infectious Diseases, Breckenridge, Colorado, 2008.
  - Sabath, N. Elhaik, E., and Graur D. Absence of similarity does not equal absence of homology: On the Purported Relationship between Evolutionary Rate and Gene Age. The Annual Meeting of the Society for Molecular Biology and Evolution, Dalhousie University in Halifax, Nova Scotia, Canada, 2007.
  - Sabath, N. Elhaik, E., and Graur D. Is there a relationship between evolutionary rate and age of genes? Texas Genetics Society conference, San Antonio, Texas, 2007.
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## Awards

- 2009 Travel award for attending “Darwin's Living Legacy: A Conference on Evolution and Society”, Alexandrina, Egypt.
- 2008 Travel award for attending the Keystone Symposium “Molecular Evolution as a Driving Force in Infectious Diseases”, Breckenridge, Colorado.
- 2008 Travel award for attending the Annual Meeting of the Society for Molecular Biology and Evolution, Barcelona, Spain.
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## Teaching

- Instructor assistant - Bioinformatics for biologists (Fall 2006, Fall 2007, Fall 2009)
- Instructor assistant - Introduction to microbiology (Fall 2005, Spring 2006)
- Instructor assistant - Introduction to biology (Summer 2006)