

# Oleg Rokhlenko

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## EDUCATION & QUALIFICATIONS

2003 - 2007 *Technion – Israel Institute of Technology*  
*Department of Computer Science*

**PhD**

**Thesis subject: Computational Methods for Searching and Comparison of Biochemical Pathways**

2001 - 2003 *Technion – Israel Institute of Technology*  
*Department of Computer Science*

**MSc (CUM LAUDE)**

**Thesis subject: Tree-Based Comparison of Metabolic Pathways**

1998 - 2001 *Technion – Israel Institute of Technology*  
*Department of Computer Science*

**BA (CUM LAUDE)**

## LIST OF PUBLICATIONS

- § A. Lozano, R.Y. Pinter, O. Rokhlenko, G. Valiente, and M. Ziv-Ukelson (2007): **Seeded Tree Alignment and Planar Tanglegram Layout**. *Proceedings of 7<sup>th</sup> Workshop on Algorithms in Bioinformatics (WABI)*, Lecture Notes in Computer Science (LNCS), to appear.
- § O. Rokhlenko, T. Shlomi, R. Sharan, E. Ruppim, and R.Y. Pinter (2007): **Constraint-based Functional Similarity of Metabolic Genes: Going Beyond Network Topology**. *Bioinformatics*, (in press).
- § R.Y. Pinter, O. Rokhlenko, D. Tsur, and M. Ziv-Ukelson. (2007): **Approximate Labelled Subtree Homeomorphism**, *Journal of Discrete Algorithms*, (in press).
- § Y. Wexler and O. Rokhlenko (2007): **Prisoner's dilemma posed by Fitness-Associated Recombination Strategies**. *J. of Theoretical Biology*, (in press).
- § O. Rokhlenko, Y. Wexler and Z. Yakhini (2007): **Similarities and differences of gene expression in yeast stress conditions**. *Bioinformatics*, Vol. 23, No. 2, pp. 184-190.
- § O. Rokhlenko, T. Shlomi, R. Sharan, E. Ruppim, and R.Y. Pinter (2006): **Flux Based vs. Topology Based Similarity of Metabolic Genes**. *Proceedings of 6<sup>th</sup> Workshop on Algorithms in Bioinformatics (WABI)*, Lecture Notes in Computer Science (LNCS), Vol. 4175, (September 2006), pp. 274-285.
- § R.Y. Pinter, O. Rokhlenko, E. Yeger-Lotem, and M. Ziv-Ukelson. (2005): **Alignment of Metabolic Pathways**, *Bioinformatics*, Vol. 21, No. 16 (August 2005), pp. 3401-3408.
- § R.Y. Pinter, O. Rokhlenko, D. Tsur, and M. Ziv-Ukelson. (2004): **Approximate Labelled Subtree Homeomorphism**, *Proceedings of 15<sup>th</sup> Annual Symposium of Combinatorial Pattern Matching*, Lecture Notes in Computer Science (LNCS), 3109. Springer-Verlag, pp. 59-73.
- § R.Y. Pinter and O. Rokhlenko, (2003): **New Methods for the Alignment of Complex Structures**, *Currents in Computational Molecular Biology*, pages 313-314.

§ O. Rokhlenko and Y. Wexler (2007): **Benefits and Hazards of Self-Adaptive Crossover Strategies in Evolution**, (in submission).

## THESIS ADVISOR

Prof. Ron Y. Pinter

## EMPLOYMENT HISTORY

2003 – 2007 *BioIntelligence Ltd.*

### **Co-Founder**

The company is a bioinformatics consulting group that provides its clients with algorithmic solutions in the field of computational biology.

2001 – 2007 *Technion – Israel Institute of Technology*

### **Teaching Assistant**

**Courses:** Introduction to Bioinformatics, Seminar in Bioinformatics, Projects in Bioinformatics, Introduction to Computer Science for Medicine, Digital Systems.

1999 - 2001 *Intel Corporation*

### **Software Engineer**

Design and implementation of different components of software package for timing analysis of Pentium processors.

## SERVICE and HONORS

2003 – 2007 Excellence scholarship, Technion, Israel.

2006 – 2007 Reviewer for the following scientific conferences:

§ Combinatorial Pattern Matching (CPM) 2006, 2007

§ The Workshop on Algorithms in Bioinformatics (WABI) 2006

1995 – 1998 IDF – C4I Corps.

Maintenance of radar, wireless radio, satellite communications, electronic combat, and information security systems.

## CONFERENCES AND INVITED TALKS

§ **2.2007:** IBM Research Labs, Haifa, Israel.

§ **1.2007:** The 5<sup>th</sup> European Conference on Computational Biology (ECCB 2006), Eilat, Israel

§ **9.2006:** The 6<sup>th</sup> Workshop on Algorithms in Bioinformatics (WABI 2006), Zurich, Switzerland

§ **7.2006:** Proncelet Lab. Workshop on Algorithms in Bioinformatics, Moscow, Russia.

§ **11.2005:** System Biology Lab, School of Computer Science, Tel-Aviv University, Tel-Aviv, Israel.

- § **07.2005:** Moscow Conference in Computational Molecular Biology (MCCMB'05), Moscow State University, Moscow, Russia.
- § **05.2005:** The 2<sup>nd</sup> International Workshop on Biological Networks, Bertinoro, Italy
- § **10.2004:** Department of Genetics, Harvard Medical School, Boston, USA.
- § **09.2004:** National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, USA.
- § **07.2004:** Computational Genomics Laboratory, School of Computer Science, Tel-Aviv University, Tel-Aviv, Israel.
- § **07.2004:** The 15<sup>th</sup> Annual Symposium of Combinatorial Pattern Matching (CPM 2004), Istanbul, Turkey
- § **05.2004:** Stringology Expert Workshop, Caesarea Rothschild Institute, University of Haifa, Haifa, Israel.

## **LANGUAGES**

English (fluent), Hebrew (fluent), Russian (native speaker).

## **ACTIVITIES & INTERESTS**

Belles lettres  
Art (theater, classical music)  
Sports  
Photography

## **REFERENCES**

*Available upon request*