



Ioannis Iliopoulos Lecturer of Bioinformatics

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Professional History

2008 - : Lecturer, Department of Basic Sciences, Medical School, University of Crete, Heraklion, Crete.

2004-2007: Visiting Lecturer of Bioinformatics, University of Crete.

2001-2003: Researcher at Institute of Agrobiotechnology, Thessaloniki, Greece

1999-2001: Postdoctoral fellow, EBI, Cambridge, UK.

Research Interests

Biocomputing/Bioinformatics.

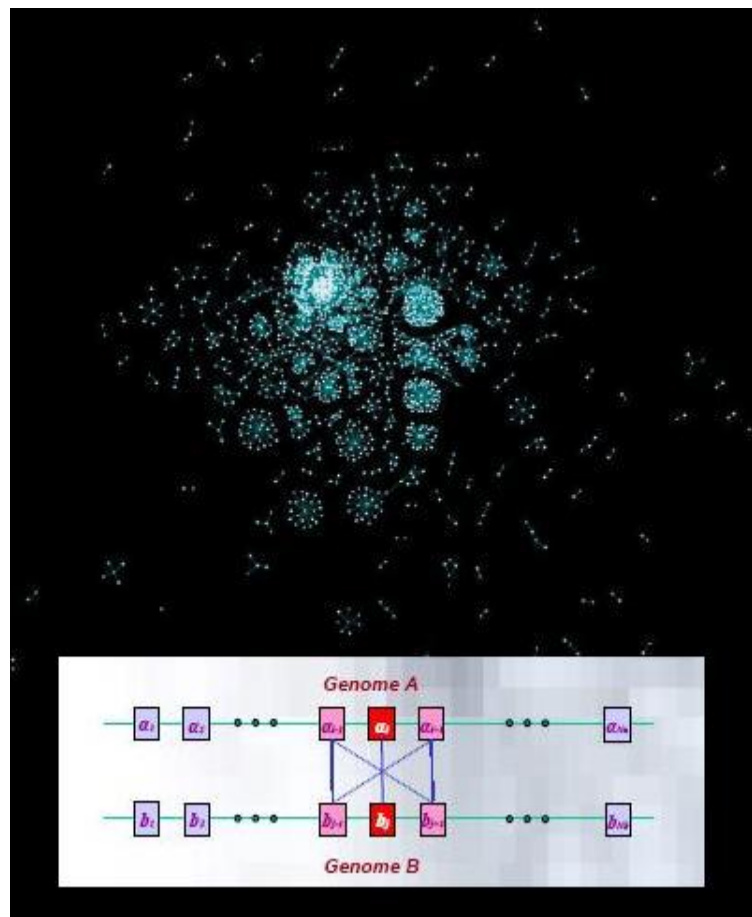
More specifically:

Comparative genomics: we study gene order conservation, gene/protein evolution and gene duplications in prokaryotes, eukaryotes and archaea. We also study gene silencing mechanisms in prokaryotes.

Text mining/Bibliometrics:

We develop algorithms and tools for information retrieval/extraction from very large biological publications/databases such as PubMed and OMIM.

We develop tools for genome analysis and improve existing ones.



Representative Publications

1. Oulas A, Karathanasis N, Louloui A, **Iliopoulos I***, Kalantidis K*, Poirazi P. A new microRNA target prediction tool identifies a novel interaction of a putative miRNA with CCND2. *RNA Biol.* 2012 Sep 1;9(9). * co co-authorship.
2. Nikolas Papanikolaou, Evangelos Pafilis, Stavros Nikolaou, **Ioannis Iliopoulos*** and Vasilis J.Promponas*. *BioTextQuest: A Web-based Biomedical Text Mining Suite for concept discovery.* *Bioinformatics.* 2011 Oct 12. [Epub ahead of print] * co co-authorship.
3. Nikolas Papanikolaou, Kalliopi Trachana, Theodosios Theodosiou, Vasilis J.Promponas and **Ioannis Iliopoulos**. Gene socialization: gene order, GC content and gene silencing in Salmonella. *BMC Genomics.* 2009 Dec 11;10:597
4. Lagnel L., Tsigenopoulos C & **Iliopoulos I**. NOBLAST and JAMBLAST: New Options for BLAST and a Java Ap-plication Manager for BLAST results. *Bioinformatics.* 2009 Mar 15;25(6):824-6.
5. T. Theodosiou and I. **Iliopoulos**. Proteins of linked genes are highly conserved in two bacterial species. *Journal of Evolutionary Biology*, 2006 Jul;19(4):1343-5.
6. **Iliopoulos I.**, Enright A., Poulet P. and C. A. Ouzounis. Mapping functional associations in the entire genome of *Drosophila melanogaster*. *Comparative and Functional Genomics* (2003) 4: 337-341
7. **Iliopoulos I.**, Tsoka S., Andrade M., Enright A., Carroll M., Poulet P., Promponas V., Liakopoulos T., Palaios G., Pasquier C., Hamodrakas S., Tamames J., Yagnik A., Tramontano A., Devos D., Blaschke C., Valencia A., Brett D., Martin D., Leroy C., Rigoustos I., Sander C. & Ouzounis C. Evaluation of annotation strategies using an entire genome sequence. *Bioinformatics.* 2003 Apr 12; 19(6):717-726.
8. **Iliopoulos I.**, Enright A. J. and C. A. Ouzounis. "TextQuest: document clustering of medline abstracts for concepts discovery in molecular biology". *Pac. Symp. Biocomput.* 6: 384-395 (2001).
9. **I. Iliopoulos**, S. Tsoka, M. Andrade, P. Janssen, B. Audit, A. Tramontano, A. Valencia, C. Leroy, C. Sander and C. A. Ouzounis. Genome sequences and great expectations. 2000 Dec. *GenomeBiology*2(1):interactions0001.1-0001.3.
10. Enright A., **Iliopoulos I.**, Kyrpides N. C. and C. A. Ouzounis (1999). Protein interaction maps for complete genomes based on fusion events. *Nature.* 402. 86-90.