

Antonio Marco, PhD

Curriculum Vitae

Date of Birth: October 15, 1979
Place of Birth: Valencia (SPAIN)

Present Address:

Center for Evolutionary Functional Genomics
The Biodesign Institute
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Education

B.Sc. Biological Sciences. 2002. (Universidad de Valencia)
M.Sc. Molecular and Evolutionary Genetics. 2004
Ph.D. Genetics. 2007. (Universidad de Valencia)

Research Positions

2008-present: Postdoctoral Research Associate. Arizona State University
2007-2008: Research Technician, Bioinformatics. Universidad de Valencia
2003-2007: Predoctoral Fellow. Ministerio de Educación y Ciencia.

Publications

Marco A, Cuesta A, Pedrola L, Palau F, Marín I (2004) Evolutionary and structural analyses of GDAP1, involved in Charcot-Marie-Tooth disease, characterize a novel class of glutathione transferase-related genes. *Mol Biol Evol.* 21:176-87

Marco A and Marín I (2005) Retrovirus-like elements in plants. *Recent Res Devel Plant Sci.* 3: 15-24

Marco A and Marín I (2007) A general strategy to determine the congruence between a hierarchical and a non-hierarchical classification. *BMC Bioinformatics*, 8:442

Marco A and Marín I (2008) How *Athila* retrotransposons survive in the *Arabidopsis* genome. *BMC Genomics*, 9:219.

Marco A and Marín I (submitted) Interactome and Gene Ontology provide congruent yet subtly different views of a eukaryotic cell.

Other presentations

Marco A, Marín I. Comparative Genomics of the Glutathione transferases. ISMB/ECCB 2004 (Glasgow). *Poster*.

Marco A, Marín I. A novel strategy of integration of genomic data to infer gene function ECCB 2005 (Madrid). *Poster*.

“Origin and Evolution of GDAP1 gene, involved in Charcot-Marie-Tooth disease”. Departamento de Genética. Universidad de Valencia. 2004. *Invited Talk*.

“Exploring complex systems throughout protein-protein interaction networks: from the yeast cell to the human brain”. Max Planck Institute for Evolutionary Anthropology, Department of Genetics. 2006. *Invited Talk*.

Software

Tree Tracker: detecting overrepresented clusters in a hierarchical tree. Freely available at <http://www.uv.es/genomica/treetracker/>

Projects

"Modelos animales y análisis bioinformáticos de genes implicados en la enfermedad de Parkinson" Principal Investigator: Ignacio Marín. (2007-2009). [Ministerio de Educación y Ciencia](#) (SAF2006-08977). Programa Nacional de Biomedicina.

Affiliations

Society for Molecular Biology and Evolution (2003-present)
International Society for Computational Biology (2004-2005)

Research Interest

Comparative genomics. Evolutionary developmental genetics. Biological networks. Transposable elements.