

CURRICULUM VITÆ

PERSONAL DATA

Rodrigo Santamaría Vicente

Date of birth: September 27, 1980

Place of birth: Salamanca, Spain

<http://vis.usal.es/rodrigo>

POSITION

Category: Assistant PhD professor

Start: September 2010

Organism: University of Salamanca

Center: Faculty of Sciences

Department: Computer Sciences and Automation

Address: Edificio San Bartolomé. Pz. Fray Luis de León 1-8, 37008, Salamanca, Spain

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RESEARCH LINES

Gene expression analysis

Systems biology

Biclustering algorithms

Information visualization

Visual analytics

BACKGROUND

PhD in Computer Science

University of Salamanca

2009

Engineer in Computer Science

University of Salamanca

2004

FORMER ACTIVITIES

Category: Postdoctoral student (orden EDU/2934/2009)

Time frame: february – september 2010

Organism: Ministerio de Educación

Center: European Bioinformatics Institute (EBI)

Category: PhD student (orden EDU/1453/2005)

Time frame: 2006–2010

Organism: Junta de Castilla y León

Center: Universidad de Salamanca

Category: Lab Technician (Art. 83 LOU contract)

Time frame: 2004–2006

Organism: Universidad de Salamanca

Center: Laboratorio de Radiaciones Ionizantes

LANGUAGES

Spanish (native speaker)

English (fluent)

French (basic)

Italian (basic)

PUBLICATIONS

Mendiburu, M., García, N., Corchado, R., Martínez, A., Chang, H., Mao, J. H., Blanco, A., García, A., Castellanos, A., Salvador, N., Jiménez, A., Pérez, M.j., Sánchez, M., Abad, M., Carmen, S., Claros, J., Cruz, J.j., Rodríguez, C.A., García, M. B., García, F.J., Santamaría, R., Castillo, S., Pérez-Losada, J. **2024**. NCAPH Drives Breast Cancer Progression and Identifies a Gene Signature that Predicts Luminal A Tumor Recurrence. *Clinical and Translational Medicine* (accepted)

García, A., Durán, L., Sánchez, M., González, S., Santamaría, R., Antequera, F. **2024**. Asymmetrical nucleosomal DNA signatures regulate transcriptional directionality. *Cell Reports*, 43(1).

Santamaría, R., Therón, R., Durán, L., García, A., González, S., Sánchez, M., Antequera, F. **2019**. Genome-wide search of nucleosome patterns using visual analytics. *Bioinformatics*, 35(13), 2185-2192.

Weil, T., Santamaría, R., Lee, W., Rung, J., Tocci, N., Abbey, D., Bezerra, A.R., Carreto, L., Moura, G.R., Bayés, M., Gut, I.G., Csikasz-Nagy A., Cavalieri, D., Berman, J., Santos, M. A. **2017**. Adaptive mistranslation accelerates the evolution of fluconazole resistance and induces major genomic and gene expression alterations in *Candida albicans*. *Msphere*, 2(4), 10-1128.

Alonso-López D., Gutiérrez M.A., Lopes K.P., Prieto C., Santamaría R., De Las Rivas J. **2016** APID interactomes: providing proteome-based interactomes with controlled quality for multiple species and derived networks. *Nucleic acids research* 44, W529–W535.

S. Terawaki, V. Camosseto, F. Prete, T. Wenger, A. Papadopoulos, C. Rondeau, A. Combes, C. Rodriguez-Rodrigues, T.P. Vu Manh, M. Fallet, L. English, R. Santamaría, A. R. Soares, T. Weil, H. Hammad, M. Desjardins, J.P. Gorvel, M. A. S. Santos, E. Gatti, P. Pierre. RUN and FYVE domain-containing protein 4 enhances autophagy and lysosome tethering in response to Interleukin-4. *The Journal of Cell Biology*, **2015**, num(vol), pages.
www.jcb.org/cgi/doi/10.1083/jcb.201501059

R. Santamaría, R. Theron and L. Quintales. BicOverlapper 2.0: visual analysis for gene expression, *Bioinformatics*, **2014**, 30(9), 1785–1786.

R. Santamaría. Biological knowledge visualization, *Biological Knowledge Discovery Handbook: Preprocessing, Mining and Post-processing of Biological Data*, M. Elloumi, A. Y. Zomaya (Eds.), John Wiley and Sons, Inc., **2014**, New Jersey.

R. Santamaría and P. Pierre. Voronto: mapper of expression data to ontologies, *Bioinformatics*, **2012**, doi: 10.1093/bioinformatics/bts428.

J. Paredes, L. Carreto, J. Simoes, A. R. Bezerra, A. C. Gomes, R. Santamaria, M. Kapushesky, G. Moura, and M. Santos. Low level genome mistranslations deregulate the transcriptome and translome and generate proteotoxic stress in yeast. *BMC Biology* **2012**, 10:55
www.biomedcentral.com/1741-7007/10/55.

R. Santamaría, L. Rizzetto, M. Bromley, T. Zelante, W. Lee, D. Cavalieri, L. Romani, B. Miller, I. Gut, M. Santos, P. Pierre, P. Bowyer, M. Kapushesky. Systems biology of infectious diseases: a focus on fungal infections, *Immunobiology*, **2011**, 216:11, 1212–1227.

R. Santamaría, and R. Theron. Visualization of intersecting groups based on hypergraphs.

IEICE Transactions on Information and Systems,
2010, E93-D: 7, 1957–1964

Y. Chen, R. Santamaría, A. Butz, and R. Theron.
TagClusters: Enhancing Semantic Understanding of Collaborative Tags. *International Journal of Creative Interfaces and Computer Graphics*,
2010, 1:2, 15-28

R. Santamaría, and R. Therón. Treevolution: visual analysis of phylogenetic trees. *Bioinformatics*, **2009**, 25, 1970–1971

R. Santamaría, R. Therón and L. Quintales. BicOverlapper: A tool for bicluster visualization. *Bioinformatics*, **2008**, 24, 1212–1213

R. Santamaría, R. Therón and L. Quintales. A visual analytics approach for understanding biclustering results from microarray data. *BMC Bioinformatics*, **2008**, 9,
www.biomedcentral.com/1471-2105/9/247

OTHER MERITS

Director of the Diploma de Especialización en Bioinformática y Genómica Computacional.

Coordinator of USAL's GIR on Bioinformatics

Member of the research group of Functional Organization of the Eukariotic Genome at IBFG.

January 29, 2024