Estefania Mancini

Senior Bioinformatician

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I am an experienced **bioinformatician** with strong background in **molecular biology**, mainly interested in **Big Data** and **High Performance Computing**. I am a **proactive, flexible** and **innovative** person that enjoy working in **multidisciplinary** groups and projects. I am extremely **sociable** and keen on building **communities** and also interested in **education**, **Open Source** and **Open Science** initiatives.

Professional and Research Experience

2017-present	**Postdoc**, *CRG-Centre for Genomic Regulation*, Laboratory of Regulation of Alternative pre-mRNA Splicing during Cell Differentiation, Development and Disease, Barcelona, Spain
2012-2016	**PhD**, *Fundacion Instituto Leloir*, Comparative Genomics of Plant Development Research, Buenos Aires, Argentina
2010-2012	**Bioinformatic Analyst**, *Institute of Agrobiotechnology Rosario, INDEAR*, Genomic and Bioinformatic Plattform, Rosario, Argentina
2009	**Internship**, *Institute National de Recherche en Informatique et en Automatique, INRIA*, Sequoia group, Lille France
2003-2009	**Master Biotechnology**, *Universidad Nacional de Rosario*, Rosario, Argentina

Technical skills

○ **R/Bioconductor** developer https://www.bioconductor.org/packages/release/bioc/html/ASpli.html

○ **Github:** https://github.com/estepi

○ Advanced user in: Linux OS, Perl/BioPerl, MySQL, Apache Web Server, Latex, Neo4J, Nextflow, AWS

Soft skills

○ **Teaching:** Extensive teaching experience in Bioinformatics applied to Genomic and Next Generation Sequencing data analysis. R/Perl/bash programming languages *on site/remote*

○ **Communication skills:** *Attendance to 15 International Scientific Conferences *Co-author several articles (see below). *Actively involved in activities for Women in STEM since 2018 *PRBB Biojunior 2019 *Open PRBB https://youtu.be/xL_TkA4HQjo *Vicepresident of Education Toastmasters International - Success club Barcelona.

○ **Mentoring:** Supervisor of MSc and PhD students. Mentor in EURAXESS Mentoring Program "Shape the future of a Researcher coming to Europe". Member of several thesis evaluation panel.

○ **Communities:** Member of: *Organizing committee of several Student Council Symposium (2012, 2015, 2016), *CRG Symposium 2018, *CRG Postdoc Symposium 2020, *eLife Ambassadors, *R/Bioconductor community board committee, *Regional Student Group -Argentina (founder/advisor)

Most relevant *peer reviewed* publications

- Analysis of alternative splicing during the combinatorial response to simultaneous copper and iron deficiency in Arabidopsis reveals diffrential events in genes involved in amino acid metabolism *Frontiers in Plant Science* (2022) **Mancini, E**, Garcia-Molina, A

- ASpli: Integrative analysis of splicing landscapes through RNA-Seq assays *Bioinformatics* (2021) **Mancini, E**, Rabinovich, A, Iserte, J, Yanovsky, M, Chernomoretz, A

- Improvement of alfalfa forage quality and management through the downregulation of MsFTa1 Plant Biotechnology (2019) Lorenzo, C, Garcia Gagliardi, P, Antonietti, M, Lamas, M, **Mancini, E**, Dezar, C, Vazquez, M, Watson, G, Yanovsky, M, Cerdán, P

- Rhythmic behavior is controlled by the SRm160 splicing factor in Drosophila melanogaster *Genetics* (2017) Beckwith, E, Hernando, C, Polcowñuk, S, Bertolin, A, **Mancini, E**, Ceriani, M, Yanovsky M

- The Dengue virus NS5 protein intrudes in the cellular spliceosome and modulates splicing *PLOS Pathogens* (2016) De Maio, F, Risso, G, Iglesias, G, Shah, P, Pozzi, B, Gebhard, L, Mammi, L, **Mancini, E**, Yanovsky, M, Andino, R, Krogan, N, Srebrow, A and Gamarnik, A

- Combinatorial control of adhesion of Brucella abortus 2308 to host cells by transcriptional rewiring of the trimeric autotransporter btaE *Molecular Microbiology* (2016) Sieira, R, Ruiz-Ranwez, V, Bialer, M, Arocena, G, **Mancini, E**, Zorreguieta, A

- Acute effects of light on alternative splicing in light-grown plants *Photochemistry and Photobiology* (2015) **Mancini, E**, Sanchez, S, Romanowski, A, Schlaen, R, Sanchez-Lamas, M, Cerdan, P, Yanovsky, M

- GEMIN2 attenuates the effects of temperature on alternative splicing and circadian rhythms in Arabidopsis thaliana *Proceedings of the National Academy of Sciences* (2015) Schlaen, R, **Mancini, E**, Sanchez, S, Perez-Santangelo, S, Rugnone, M, Simpson, C, Brown, J, Zhang, X, Chernomoretz, A, Yanovsky, M

- A role for LSM genes in the regulation of circadian rhythms *Proceedings of the National Academy of Sciences* (2014)Perez, S, **Mancini, E**, Francey, L, Schlaen, R, Chernomoretz, A, Hogenesch, J, Yanovsky M

- Diagnosis of mitochondrial disorders applying massive pyrosequencing *Molecular Biology Reports*(2012) Kauffman, M, González-Morón, D, Consalvo, D, Westergaard, G, Vázquez, M, **Mancini, E**, Taratuto, A, Rey, R, Kochen, S

- Genome sequence of Sphingomonas sp. S17, isolated from an alkaline, hyperarsenic, and hypersaline volcano-associated lake at high altitude in the Argentinean Puna*J Bacteriol.* (2011) Farías M, Revale S, Ordoñez, O, **Mancini, E**, Turjanski A, Cortez N, Vázquez M

Other publications (*not peer reviewed*)

- Second ISCB Latin American Student Council Symposium (LA-SCS) *F1000Research* (2017) Monzon, A, Hasenahuer, M, **Mancini, E**, Coimbra, N, Cravero, F, Cáceres-Molina, J, Ramírez-Sarmiento, C, Palopoli, N, Meysman, P, Parra, G

- Highlights of the 1st Argentine Symposium of Young Bioinformatics Researchers (1SAJIB) organized by the ISCB RSG-Argentina *PeerJ* (2016) Parra, R, Defelipe, L, Guzovsky, A, Monzón, A, Cravero, F, **Mancini, E**, Moreyra, N, Padilla, L, Revuelta, M, Freiberger, M, Gonzalez, N, Gonzalez, G, Orts, F, Stocchi, N, Hasenahuer, M, Teppa, E, Zea, D, Palopoli, N

Under revision

- Intron detention tightly regulates the stemness/differentiation switch in the adult neurogenic niche *Nature Neurosciences* (2021) González-Iglesias, A, Domingo-Muelas.A, Arcas, A, **Mancini, E**,Valcárcel, J, Fariñas, I, Nieto, A

- Aurora-A phosphorylates splicing factors and regulates alternative splicing *Nucleic Acids Research* (2020) Damodaran, A, Gavard, O, Gagné, JP; Rogalska, M, **Mancini, E**, Courtheoux, T, Cailloce, J, Méreau, A, Poirier, G,Valcarcel Juarez, J, Watrin, E, Prigent, C