Estefania Mancini

Curriculum Vitae

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Education

2017-present **PostDoc position**, *Laboratory of Regulation of Alternative pre-mRNA Splicing during Cell Differentiation, Development and Disease.*, Gene regulation, stem cells and cancer research program. CRG-Centre de Regulació Genómica. Barcelona. Spain, Advisor: PhD. Juan Valcarcel.

2012-2016 **PhD in Biological Sciences**, *Faculty of Exact and Natural Sciences, University of Buenos Aires (FCEyN, UBA)*, Advisor: PhD. Marcelo Yanovsky, Assistant Advisor: PhD. Ariel Chernomoretz.
Thesis topic: Deciphering the molecular mechanisms linking alternative splicing to the regulation of circadian rhythms and flowering time in plants.

2003-2010 **Ms. Biotechnology**, *Faculty of Pharmacy and Biochemistry, National University of Rosario (FBioyF, UNR)*, Advisors: PhD. Luis Esteban, PhD. Esteban Serra.
Thesis topic: Design and programming of a graphic interface to CD-HIT

Work experience

2010-2012 **Bioinformatics Analyst. Genomics and Bioinformatics platform**, INDEAR *Institute of Agrobiotechnology of Rosario*, Rosario, Argentina.

2009 **Internship**, ***INRIA*** *Institute National de Recherche en Informatique et en Automatique*, Lille, France.

Teaching

2017 **Introduction to R**, *CRG*, Barcelona, Spain.

2015-2016 **Introduction to bioinformatics**, *Postgrad course in Bioinformatics*, Universidad nacional de San Martin, San Martín, Argentina.

2013-2016 **Problems and applications in bioinformatics / Programming of tasks for the analysis of biological sequences**, *Postgrad course in Bioinformatics*, FBioyF, UNR, Rosario, Argentina.

Workshops

2019 **Systems Biology: From Large Datasets to Biological Insight**, *Wellcome Genome Campus*, Hinkton, UK.

2018 **From Science to Business 2018** , *ESADE*, Barcelona, Spain.

Integrating Systems Biology: From Networks to Mechanisms to Models, *EMBL*, Heidelberg, Germany.

2017 **European Bioconductor conference**, *University of Cambridge*, Cambridge, England.

Say it so it stays. Oral presentations skills training for scientists, *Interval Course, CRG*, Barcelona, Spain.

Publications

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

2020 **Global transcriptome analysis reveals circadian control of splicing events in Arabidopsis thaliana**, *The Plant Journal*, Romanowski, A, Schlaen, G, Perez-Santangelo, S, Mancini, E, Yanovsky, M..

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

2017 **Rhythmic Behavior Is Controlled by the SRm160 Splicing Factor in Drosophila melanogaster**, *Genetics*, Beckwith, E, Hernando, C, Polcowñuk, S, Bertolin, A, Mancini, E, Ceriani, M, Yanovsky M.
DOI:10.1534/genetics.117.300139

SPF45-related splicing factor for phytochrome signaling promotes photomorphogenesis by regulating pre-mRNA splicing in Arabidopsis, *Proceedings of the National Academy of Sciences*, Xin, R., Zhu, L., Salomé, P., Mancini, E., Marshall, C., Harmon, F., Yanovsky, M., Weigel, D., Huq, E. .
DOI:10.1073/pnas.1706379114

2016 **The Dengue Virus NS5 Protein Intrudes in the Cellular Spliceosome and Modulates Splicing**, *PLOS Pathogens*, 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.
DOI:10.1371/journal.ppat.1005841

Combinatorial control of adhesion of Brucella abortus 2308 to host cells by transcriptional rewiring of the trimeric autotransporter btaE, *Molecular Microbiology*, Sieira, R., Ruiz-Ranwez, V., Bialer, M., Arocena, G., Mancini, E., Zorreguieta, A.
DOI:10.1111/mmi.13576

2015 **Acute effects of light on alternative splicing in light-grown plants**, *Photochemistry and Photobiology*, Mancini, E, Sanchez, S, Romanowski, A, Schlaen, R, Sanchez-Lamas, M, Cerdan, P, Yanovsky, M.
DOI: 10.1111/php.12550

GEMIN2 attenuates the effects of temperature on alternative splicing and circadian rhythms in Arabidopsis thaliana, *Proceedings of the National Academy of Sciences*, Schlaen, R, Mancini, E, Sanchez, S, Perez-Santangelo, S, Rugnone, M, Simpson, C, Brown, J, Zhang, X, Chernomoretz, A, Yanovsky, M.
DOI:10.1073/pnas.1504541112

Genome wide comparative analysis of the effects of PRMT5 and PRMT4/CARM1 arginine methyltransferases on the Arabidopsis thaliana transcriptome, *BMC Genomics*, Hernando, E, Sanchez, S, MANCINI, E, Yanovsky M.
DOI:10.1186/s12864-015-1399-2

2014 **A role for LSM genes in the regulation of circadian rhythms**, *Proceedings of the National Academy of Sciences*, Perez Santángelo, S, MANCINI, E, Francey, L, Schlaen, R, Chernomoretz, A, Hogenesch, J, Yanovsky M.
DOI: 10.1073/pnas.1409791111

Genome-wide annotation of the soybean WRKY family and functional characterization of genes involved in response to Phakopsora pachyrhizi infection, *BMC Plant Biology*, Bencke-Malato, M, Wiebke-Strohm, B, Bucker-Neto, L, MANCINI, E, Osorio, M, Homrich, M, Turchetto-Zolet, A, De Carvalho, M, Stolf, R, Weber, R, Cabreira, C, Westergaard, G, Castagnaro, A, Abdelnoor, R, Marcelino-Guimaraes, F, Pinheiro-Margis, M, Bodanese-Zanettini, MH.
DOI: 10.1186/s12870-014-0236-0

2013 **LNK genes integrate light and clock signaling networks at the core of the Arabidopsis oscillator**, *Proceedings of the National Academy of Sciences*, Rugnone M, Faigón Soverna A, Sánchez S, Schlaen R, Hernando C, Seymour D, MANCINI E, Chernomoretz A, Weigel D, Más P, Yanovsky M.
DOI:10.1073/pnas.1302170110

2012 **Diagnosis of mitochondrial disorders applying massive pyrosequencing**, *Molecular Biology Reports*, Kauffman, M, González-Morón, D, Consalvo, D, Westergaard, G, Vázquez, M, MANCINI, E, Taratuto, A, Rey, R, Kochen, S.
DOI:10.1007/s11033-012-1471-9

2011 **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.*, Farías M, Revale S, Ordoñez, O, MANCINI, E, Turjanski A, Cortez N, Vázquez M.
DOI:10.1128/JB.05225-11