

# Sabrina Sanchez, Ph.D.

## Research Associate

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## Education

2011 Ph.D. Biological Sciences, University of Buenos Aires

2004 B.S. Molecular Biology, University of Buenos Aires, 2004

## Postdoctoral Training

2011-2013 University of Buenos Aires; Advisor: Dr. Marcelo Yanovsky

2013-2015 University of Southern California; Advisor: Dr. Steve Kay

2016-2017 The Scripps Research Institute; Advisor: Dr. Steve Kay

2017- University of Southern California; Advisor: Dr. Steve Kay

**Research Interest:** Circadian clock outputs regulation through alternative splicing in plants.

## Honors and Awards

2013-2015. Post-doctoral Fellowship, The PEW Charitable Trusts.

March 2012. Recipient of a short-term research scholarship awarded by the German Academic Exchange Service (DAAD) to collaborate with Dr. Weigel's laboratory, in the Max Planck Institute for developmental biology in Tübingen – Germany, for two months (May 2012 - June 2012).

June 2011. Recipient of: "Graduate Student Research Recognition Award". Selected for the Organizing Committee of the 22nd International Conference on Arabidopsis Research as the best Graduate Student abstract in the Light and Circadian Regulation session for the poster "PRMT5, a Piece Connecting the Circadian Clock and Alternative Splicing". Madison, USA.

April 2011 – March 2013. CONICET Post-Doc Fellowship, Fundación Instituto Leloir, Buenos Aires (IFEVA-FAUBA).

April 2009 – March 2011 CONICET Postgraduate Type II Fellowship, IFEVA, School of Agronomy, University of Buenos Aires (IFEVA-FAUBA)

April 2006 – March 2009. CONICET Postgraduate Type I Fellowship, School of Agronomy, University of Buenos Aires (IFEVA-FAUBA).

May 2005 – March 2006. Agencia Nacional de Promoción Científica y Técnica PhD Fellowship (BID 1728/OC-AR PICT 15098). Theme: Molecular and genetics basis of the photoperiodic Response in Arabidopsis, IFEVA-FAUBA.

May 2004 – September 2004. Research Initiation Award 2004 (for Undergraduate Students).

## **Publications**

**Sabrina E. Sanchez\***, Ezequiel Petrillo\*, Esteban J. Beckwith, Xu Zhang, Matias L. Rugnone, C. Esteban Hernando, Juan C. Cuevas, Craig G. Simpson, John W.S. Brown, Pablo D. Cerdán, Justin O. Borevitz, M. Fernanda Ceriani, Paloma Mas, Alberto R. Kornblihtt & Marcelo J. Yanovsky. (\*: both authors contributed equally to this work). “A methyl transferase links the circadian clock to the regulation of alternative splicing”. **Nature**, 2010; 468(7320):112-6.

M. Paula Coluccio, **Sabrina E. Sanchez**, Luciana Kasulin, Marcelo J. Yanovsky, Javier F. Botto. “Genetic mapping of natural variation in a shade avoidance response: ELF3 is the candidate gene for a QTL in hypocotyl growth regulation”. *Journal of Experimental Botany*, 2011; 62(1):167-76.

**Sabrina E. Sanchez\***, Juan I. Cagnola\*, María Crepy\*, Marcelo J. Yanovsky y Jorge J. Casal. (\*: these authors contributed equally to this work). “Balancing forces in the photoperiodic control of flowering.” *Photochemical and Photobiological Sciences*, 2011; 10(4):451-60.

**Sabrina E. Sanchez\***, Ezequiel Petrillo\*, Alberto R. Kornblihtt & Marcelo J. Yanovsky. (\*: both authors contributed equally to this work). “Alternative splicing at the right time”. **RNA Biology**, 2011; 8(6): 954-959.

Ezequiel Petrillo\*, **Sabrina E. Sanchez\***, Alberto R. Kornblihtt & Marcelo J. Yanovsky. (\*: both authors contributed equally to this work). “Alternative splicing adds a new loop to the circadian clock”. **Communicative & Integrative Biology**, 2011; 4(3):284-86.

**Sabrina E. Sanchez**, Marcelo J. Yanovsky. “Time for a Change”. **eLife**, 2013; 2:e00473.

Matias L. Rugnone, Ana Faigon-Soverna, **Sabrina E. Sanchez\***, Ruben G. Schlaen\*, Carlos E. Hernando\*, Danelle K. Seymour, Estefania Mancini, Ariel Chernomoretz, Detlef Weigel, Paloma Mas and Marcelo J. Yanovsky. (\*: these authors contributed equally to this work). “LNK genes integrate light and clock signaling networks at the core of the Arabidopsis oscillator”. **Proceedings of the National Academy of Sciences**, 2013; 110(29):12120-5.

Chow, Brenda Y., **Sanchez, Sabrina E.**, Breton, G., Pruneda-Paz, Jose L., Krogan, Naden T., and Kay, Steve A. “Transcriptional Regulation of LUX by CBF1 Mediates Cold Input to the Circadian Clock in Arabidopsis”. **Current Biology**, 2014; 24: 1518-1524.

Hernando, C., **Sanchez, S.E.**, Mancini, E., and Yanovsky, M. “Genome wide comparative analysis of the effects of PRMT5 and PRMT4/CARM1 arginine methyltransferases on the Arabidopsis thaliana transcriptome”. **BMC Genomics**, 2015; 16, 1-15.

Schlaen, R.G., Mancini, E., **Sanchez, S.E.**, Perez-Santángelo, S., Rugnone, M.L., Simpson, C.G., Brown, J.W.S., Zhang, X., Chernomoretz, A., and Yanovsky, M.J. “The spliceosome assembly factor GEMIN2 attenuates the effects of temperature on alternative splicing and circadian rhythms”. **Proceedings of the National Academy of Sciences**, 2015; 112: 9382–9387.