

# Marian Nohales, Ph.D.

## Research Associate

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## Education

- 2011 Ph.D. Biotechnology, Institute for Molecular and Cellular Plant Biology, Universidad Politécnic de Valencia
- 2006 M.S. Molecular Biology and Genetics, Department of Biochemistry and Molecular Biology, Universitat de Valencia
- 2004 B.S. Biology, Universitat de Valencia

## Postdoctoral Training

- 2012-2012 Division of Biological Sciences, University of California, San Diego  
Advisor: Dr. Steve A. Kay
- 2012-2015 Molecular and Computational Biology, University of Southern California  
Advisor: Dr. Steve A. Kay
- 2016-present Research Associate, Neurology, Keck School of Medicine  
Advisor: Dr. Steve Kay

**Research Interest:** Post-transcriptional regulation mediated by sRNAs in the plant circadian clock.

## Awards and Honors

Best oral communication award. Nohales MA, Flores R, Darós JA. Circularization of potato spindle tuber viroid RNA by a new tomato RNA ligase activity. II Meeting of the National Network of Plant Virology, Puerto de Santa María (Cádiz), Spain 2010

Predocctoral Fellowship (BES-2006-13342) of the Spanish Ministry of Education and Science (MEC)

Collaboration Fellowship (BC05-253) of the Universitat de Valencia (UVEG)

Erasmus Fellowship (2001)

## Publications

M. Endo, H. Shimizu, **M.A. Nohales**, T. Araki, S.A. Kay. Tissue-specific clocks in Arabidopsis show asymmetric coupling. *Nature* 419-422 (2014)

- B. Belda-Palazón, **M.A. Nohales**, J.L. Rambla, J.L. Aceña, O. Delgado, S. Fustero, M.C. Martínez, A. Granell, J. Carbonell, A. Ferrando. Biochemical quantitation of the eIF5A hypusination in *Arabidopsis thaliana* uncovers ABA-dependent regulation. *Front Plant Sci.* 16;5:202 (2014)
- M.A. Nohales**, R. Flores, J.A. Darós. A viroid RNA redirects host DNA ligase 1 to act as an RNA ligase. *Proc Natl Acad Sci USA.* 109(34):13805-10 (2012).
- M.A. Nohales**, D. Molina-Serrano, R. Flores, J.A. Darós. Involvement of the chloroplastic isoform of tRNA ligase in the replication of viroids belonging to the family *Avsunviroidae*. *J Virol.* 86(15): 8269-76 (2012).
- D. Molina-Serrano, J. Marqués, **M.A. Nohales**, R. Flores, J.A. Darós. A chloroplastic RNA ligase activity analogous to the bacterial and archaeal 2'-5' RNA ligase. *RNA Biol.* 9(3): 326-33 (2012).
- R. Flores, D. Grub, A. Elleuch, **M.A. Nohales**, S. Delgado, S. Gago. Rolling-circle replication of viroids, viroid-like satellite RNAs and hepatitis delta virus: variations on a theme. *RNA Biol.* 8(2): 200-6 (2011).
- M. Eiras, **M.A. Nohales**, E.W. Kitajima, R. Flores, J.A. Darós. Ribosomal protein L5 and transcription factor IIIA from *Arabidopsis thaliana* bind *in vitro* specifically *Potato spindle tuber viroid* RNA. *Arch Virol.* 156(3): 529-33 (2010).
- R. Flores, M.E. Gas, D. Molina-Serrano, **M.A. Nohales**, A. Carbonell, S. Gago, M. De la Peña, J.A. Darós. Viroid Replication: Rolling-Circles, Enzymes and Ribozymes. *Viruses* 1(2): 317-34 (2009).