B·DEBATE International Center for Scientific Debate BARCELONA

Curriculum Vitae

Marcelo J. Yanovsky

Marcelo J. Yanovsky gained his PhD in Biological Sciences in 1999 from the University of Buenos Aires, Argentina, in the lab of Dr. Jorge Casal, before completing his postdoctoral studies in the lab of Dr. Steve Kay, at The Scripps Research Institute, USA in 2003. He is currently PI at Fundación Instituto Leloir-IIBBA (CONICET), and Associate Professor at the University of Buenos Aires. Dr. Yanovsky has received the Howard Hughes Medical Institute International Scholar award (2007), the Bunge y Born young investigator award in Plant Biology (2006) and the Bernardo Houssay young investigator award in Biomedicine (2005). Dr. Yanovsky has always been interested in understanding how plants flower at particular times of the year, studying the action of photoreceptors that discriminate day from nights, biological clocks that measure the passage of time, and mechanisms integrating these processes. His work in the lab of Dr. Casal contributed to characterize the signaling pathways through which the photoreceptor phytochrome A controls developmental processes in Arabidopsis thaliana and potato plants, focusing on its role adjusting the circadian clock to external light/dark cycles. As a post-doc in the lab of Dr. Steve Kay, Dr. Yanovsky collaborated in developing the first model explaining at the molecular level how the plant circadian clock operates, and, how the activity of the circadian clock interacts with that of specific photoreceptors to regulate the expression of key flowering time genes, allowing Arabidopsis plants to flower more rapidly under long photoperiods. More recently, Dr. Yanovsky´s work has focused on the use of forward genetic approaches to dissect regulatory mechanisms controlling light and circadian signalling pathways. This allowed his group to identify a role for Protein Arginine Methyltransferase 5 (PRMT5) in the modulation of circadian rhythms in plants and flies, at least in part, through effects on alternative splicing, a process whose importance in the regulation of gene expression and protein diversity is being increasingly recognized.

Speaker at:

INTERPLAY OF LIGHT, PHOTOPERIODISM AND CIRCADIAN CLOCK FUNCTION IN PLANT DEVELOPMENT

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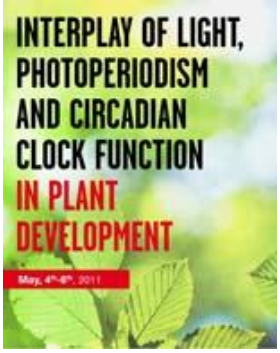

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