

**SEMINARIO EXTRAORDINARIO**  
**Martes 28 de Junio a las 12.00 horas**

# **INTEGRATION OF THE PHOTOPERIOD AND VERNALIZATION PATHWAYS IN THE TEMPERATE CEREALS**

**JORGE DUBCOVSKY**

J. Dubcovsky is Professor in the Dept. of Plant Sciences (UC Davis). He is the University of California wheat breeder and wheat geneticist and the project leader for the US national program on Wheat Marker Assisted Selection, which includes 20 public breeding programs and four high-throughput genotyping centers.



A precise regulation of the transition from vegetative to reproductive development is essential to maximize grain productivity of temperate cereals in changing environments. In the temperate cereals, this transition is mainly regulated by seasonal cues including vernalization (determined mainly by *VRN1* and *VRN2*) and photoperiod (determined mainly by *PPD1* and *CO2*).

The seminar will summarize the state of the art of his research to integrate genetics with multiple developmental and environmental signals in the regulation of flowering initiation in the temperate cereals.