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Plant Agc protein kinases orient auxin-mediated differential growth and organogenesis

Galván Ampudia, C.S.

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Curriculum vitae

Carlos Samuel Galván Ampudia was born on June 12, 1978 in Monterrey, State of Nuevo Leon, Mexico. He attended the Colegio Madrid high school at Mexico City. In 1996, he started the study of Biology at the Universidad Nacional Autonoma de Mexico (UNAM). In 1999, he started his research training in the Plant Molecular Biology department at the Biotechnology Institute (UNAM), under the supervision of Dr. Federico E. Sanchez, and his project involved the functional characterization of Src homology 3 (SH3) domains in *Arabidopsis thaliana*. In 2002, he obtained his BSc in Biology with specialization in bioinformatics and biochemistry. In March 2002, he joined the team of Dr. Remko Offringa, at the Molecular and Developmental Genetics department, Institute of Biology, Leiden University, the Netherlands. He was involved in the molecular and biochemical characterization of the PINOID calcium/calmodulin regulated protein kinase. In 2003, he obtained his MSc in Biology (cum laude). In July 2003, he started as a PhD student in the group of Dr. Remko Offringa on an ALW/NWO funded project (813.06.004) concerning the characterization of plant AGC protein kinases and their role in the regulation of transport of the plant hormone auxin in *Arabidopsis thaliana* (this thesis). During this time he was also involved in the Horizon breakthrough project (050.71.172) concerning the development and validation of a novel randomized peptide-based kinase target microarray (the Pepchip Kinase Sitefinder) as a generic tool in kinomics, in collaboration with PEPSCAN[®] (Lelystad) and Biomolex[®] (Oslo). From September 2008 on, he works as a post-doc in the Plant Physiology department at the Swammerdam Institute for Life Sciences (SILS), Amsterdam University. Under the supervision of Dr. Christa Testerink, he focuses on the characterization of lipid regulated signaling in the crosstalk between environmental stress and plant development.

Publications list

International journals

Sorefan K., Girin T., Liljegren S.J., Ljung K., Robles P., **Galvan-Ampudia C.S.**, Offringa R., Friml J., Yanofsky M.F., and Østergaard L. (2009). A regulated auxin minimum is required for seed dispersal in *Arabidopsis*. *Nature*. 459(7246), 583-586.

Galvan-Ampudia CS, Offringa R (2007). Plant evolution: AGC kinases tell the auxin tale. *Trends Plant Sci*. 12(12), 541-547.

Benjamins R, **Galvan Ampudia CS**, Hooykaas PJ, Offringa R. (2003). PINOID-mediated signaling involves calcium-binding proteins. *Plant Physiol.* 132: 1623-1630.

Contribution to books

Kemel Zago M, **Galvan Ampudia CS** and Offringa R (2007). Signaling in Auxin-Dependent Plant Development. *Plant Cell Monogr*. Ed Laszlo Bögre, Gerit Beemster. Springer-Verlag Berlin Heidelberg.