

Relief of DELLA-Restraint: Integration of Multiple Signal Inputs to the Control of Plant Growth



Department of Biological Sciences
Seminar Announcement

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The DELLA proteins are a subfamily of the plant-specific GRAS family of putative transcription factors that regulate plant growth in response to the phytohormone gibberellin (GA). The DELLA proteins restrain growth, and GA promotes growth by opposing DELLA function. GA promotes specific targeting of DELLA proteins for destruction in the proteasome via the SCF^{SLY1/GID2} E3 ubiquitin ligase. Additional signalling pathways, such as those associated with the phytohormones auxin and ethylene, also influence plant growth via effects on the stability of nuclear DELLA proteins. The presentation will conclude with an exploration of the concept that DELLA proteins are integrators of multiple plant growth regulatory signalling inputs, and with illustrations of the broader biological significance of DELLA function.

About the speaker:

Professor Harberd is currently a Project Leader in John Innes Center, UK and a Honorary Professor in University of East Anglia, UK. He obtained his bachelor (Hons), MA and Ph.D degrees from Cambridge University. After postdoc research in University of California, Berkeley, he joined John Innes Centre in 1990 as a Senior Scientific Officer. Professor Harberd's research group investigates fundamental mechanisms for the regulation of plant growth, especially the involvement of hormone signalling pathway.



Date: 27 Sept 2004, Mon
Time: 2 pm
Venue: DBS Conference Room
Host: Dr Yu Hao

All are welcome