Seminar at IB

on

Friday, 14. December 2007

Dr. Claudia Cosio,
Laboratory of Plant Biology and Physiology, Geneva University

will give a talk about

Peroxidase isoforms involved in pod shattering mechanism in Arabidopsis thaliana

Brassica plants normally disperse their seeds by a pod-shattering mechanism. Although this mechanism is an advantage in nature, unsynchronized pod shatter constitutes one of the biggest problems for canola farmers. Arabidopsis has proven to be extremely useful as a reference organism for studies in plant biology, and it has been shown that the genetic pathway leading to valve margin specification is conserved between Arabidopsis and Brassica. Therefore studies concerning the control of seed dispersal in Arabidopsis should be generally applicable to diverse Brassica crop species to reduce seed loss. Plant peroxidases are known to be involved in a broad range of physiological processes all throughout the plant life cycle. Here, we show for the first time that peroxidases are involved in pod shattering and that several peroxidases genes are under the control of crucial seed dispersal transcription factors.

Time: 10:15-11:00
Place: Room 3102

All employees and students at the Department of Biology are encouraged to attend this interesting talk !