

# BIG seminar 2011-2012

Biology and integrative genomics

**Monday,  
5 March  
17h**



**Enrico Coen**

John Innes Center

**“Hidden Signposts of Development:  
the Role of Polarity in Tissue Pattern and Shape.”**

Development involves highly oriented cell behaviours, such as anisotropic growth and asymmetric cell divisions. It is unclear how these orientations are specified and how they lead to particular cellular or tissue outcomes. We have been addressing this problem using a combination of genetic, morphological, computational and imaging. The results provide new insights into how genes interact to specify orientations of growth and division, leading to particular shapes and cell lineage patterns. The talk will illustrate how integrating biological and computational methods may lead to a quantitative mechanistic framework for development.

BIG is an initiative of the Faculty of Biology and Medicine,  
University of Lausanne. BIG is organized by Uta Paszkowski,  
Laurent Keller, Henrik Kaessmann and Jan Roelof van der Meer.  
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