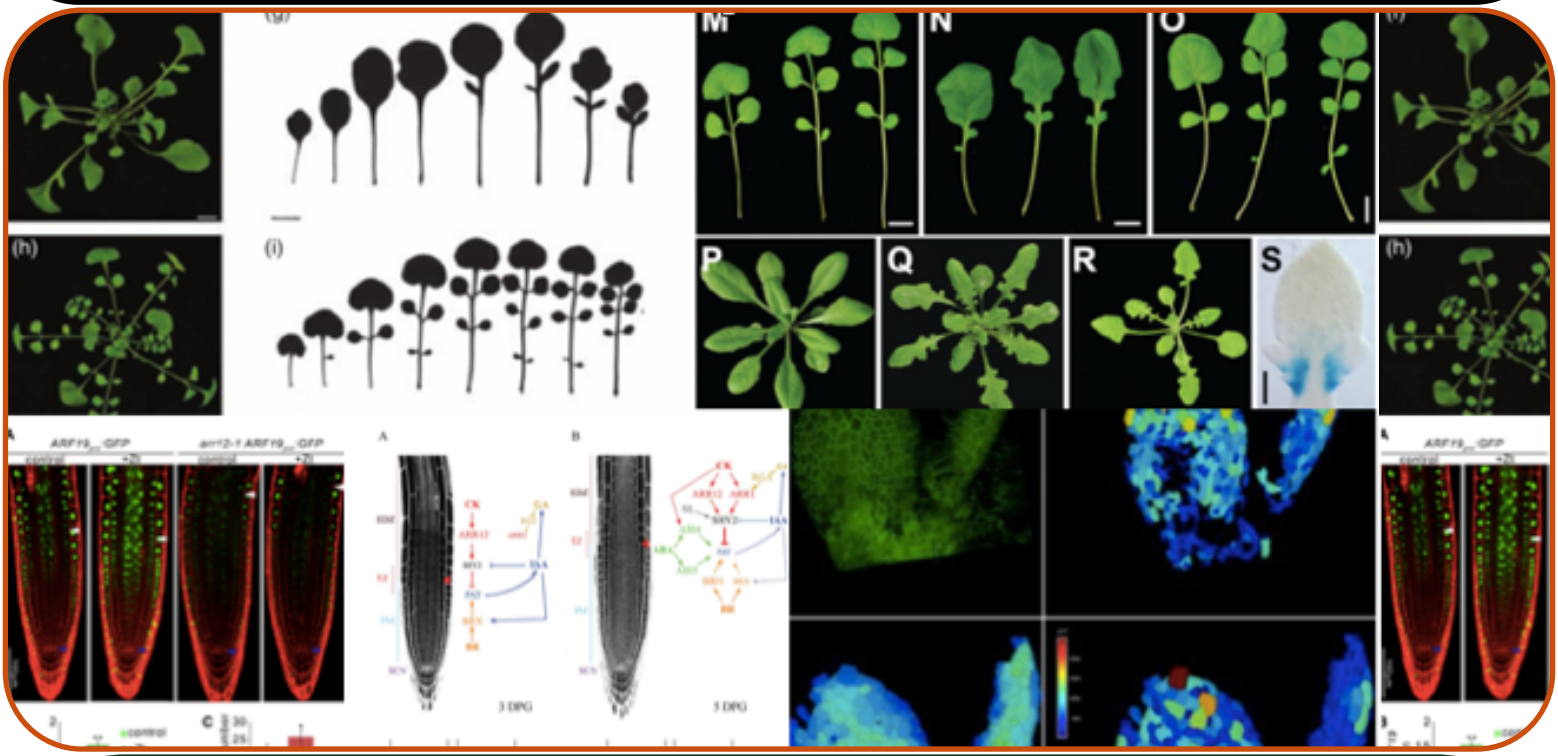
Dia 23 de Outubro 2015 no Anfiteatro “Admar Cervellini” do CENA/USP de Piracicaba.

Mini-Symposium on “Plant Form and Modulation”.

9:00 Prof. Sabrina Sabatini - Associated Professor of Developmental Biology at “La Sapienza” University of Rome - Italy

10:30 Prof. Raffaele Dello Ioio - Principal Investigator at “La Sapienza” University of Rome - Italy

12:00 Dr. Emanuele Scacchi - PosDoc at Detlef Weigel’s Lab - Max Planck Institute for Developmental Biology - Tuebingen - Germany



Plant plasticity, the ability of plants to reprogram their developmental pathways by the action of hormones, is a well known process, since it’s discovery by Miller & Skoog the late1950’s. Since then the knowledge of hormone action in plant plasticity has had a limited development due to the pleiotropic effects of it’s action in plants. But since the late 1990’s by the convergence of plant physiology with molecular techniques and a developmental viewpoint many new discoveries have revolutionized this field. Local action at a tissue-specific level of the hormone auxin, with it’s characteristic polar transport mechanism, have defined how the tap roots are self-renewable organizers of the root structure (Sabatini S., 1999). Moreover cytokinins have been shown to play an important role in tap root growth control by defining the growth rate and inducing cell differentiation (Dello Ioio, 2007). On the other side different studies have shown the action of hormones and defined molecular networks in the regulation of meristems, flower development and leaf size and morphology. Evolution-driven natural selection has widely modulated the distribution of hormones and some defined molecular networks to promote diversification and speciation of plants. Genomic and transcriptomic approaches of different species have widened the understanding of these basic molecular form modulators, and now through a system biology view point, basic patterning modelling is opening new perspectives about plant form modulation (Scacchi E.). In this Mini-symposium we will have the honor to host important key scientists (Sabatini S. - Universitá La Sapienza - Roma/Itália; Delli Ioio R. - Universitá La Sapienza/Roma - Itália; Scacchi E. - Max Planck Gesellschaft Tuebingen/ Alemanha) that unravelled some of the secrets of plant form and plasticity and we will have the chance to investigate their view point about future scenarios of plant morphology development on crop development.

Organizers: Prof.Adriana Pinheiro Martinelli CENA/USP

Prof. Francisco Scaglia Linhares CENA/USP

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