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Com arribar-hi: GPS - 41° 21' 43.55" N, 02° 09' 38.64" E; transport públic - Bus 150, Plaça Espanya

16 de desembre de 2014, 12:00, Sala Salvador

## Tracing changes in genetic pathways underlying reproductive architecture in Papaveraceae (basal eudicots, Ranunculales)

Per

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### Abstract:

The family Papaveraceae offers a unique opportunity to study coordinated evolution of traits, with three characteristic and widespread floral syndromes that link inflorescence determinacy and flower symmetry, and some interesting "rule-breaker" taxa with unusual syndromes. We tested the amenability of *Cysticapnos vesicaria* to the functional molecular biology technique of virus-induced gene silencing (VIGS). This provided a zygomorphic-flowered model plant to contrast the actinomorphic-flowered emerging model *Eschscholzia californica*. We discussed traits evolution in the light of the phylogeny and the history of single gene, whole-genome duplication events and genome reshuffling in Papaveraceae.

