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MADS COMPLEX FORMATION AND FLORAL ORGAN IDENTITY

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ON THE COVER



The products of B class floral homeotic genes specify petal and stamen identity. Lange et al. (pages 438–453) describe the molecular characterization of *seirena-1*, a mutant from the basal eudicot California poppy (*Eschscholzia californica*) that shows homeotic changes characteristic of floral homeotic B class mutants. *SEIRENA* is found to be a B function gene of the PI/GLO clade, and the *sei* mutant protein lacks a conserved PI domain present in most PI/GLO proteins. The results suggest that the PI domain is required for specific multimeric associations of MADS proteins necessary to confer stamen identity, and possibly petal identity, in most flowering plants. The cover shows mature flowers of wild type (top), a plant treated with *SEI* Virus-Induced gene Silencing (bottom left), and a *sei* mutant poppy (bottom right) (photos by Matthias Lange, cover design by Annette Becker).

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