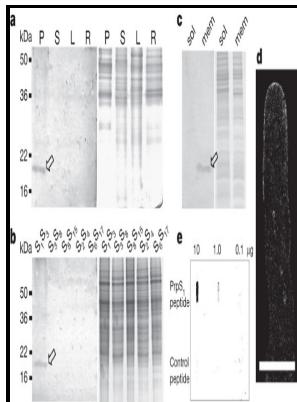


# Genetics of self-incompatibility in Papaver rhoeas L.

University of Birmingham - The population genetics of the self



Description: -

-genetics of self-incompatibility in Papaver rhoeas L.

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## Population genetics of self

This simple system may have wide application in biotechnology and research. Self incompatibility in *Ranunculus acris*. Dixit S, Kumar Biswal A, Min A, Henry A, Oane RH, Raorane ML, Longkumer T, Pabuayon IM, Mutte SK, Vardarajan AR, Miro B, Govindan G, Albano-Enriquez B, Pueffeld M, Sreenivasulu N, Slamet-Loedin I, Sundarvelpandian K, Tsai YC, Raghuvanshi S, Hsing YI, Kumar A, Kohli A.

## The population genetics of the self

The population genetics of the self-incompatibility polymorphism in *Papaver rhoeas*. These studies provide evidence for a role for signal transduction in the SI reaction. These results also show, however, that, in general, different alleles occur at a relatively high frequency in different populations which, it is argued, rules out the possibility that the unequal allele frequencies in these populations is caused by an extra effect of selection acting on the locus via a pleiotropic effect.

## Characterization of a Stigmatic Component from Papaver rhoeas L. Which Exhibits the Specific Activity of a Self

SI triggers several downstream events, including depolymerization of the cytoskeleton, phosphorylation of two soluble inorganic pyrophosphatases and an MAPK mitogen-activated protein kinase. In the present paper further evidence is given which proves that control of the pollen is gametophytic and which all but excludes the possibility that more than one locus is involved.

## Population genetics of self

On the other hand, the genetical evidence so far obtained suggests that the reaction of the pollen is under gametophytic control.

## Genomic organization of the Papaver rhoeas self

The number and frequency of S-allele in a natural population R106.

## Characterization of a Stigmatic Component from Papaver rhoeas L. Which Exhibits the Specific Activity of a Self

The number and distribution of S-alleles in families from three locations. The genetics of self-incompatibility in *Papaver rhoeas*.

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