

# Genetics of self-incompatibility in Papaver rhoeas L.

University of Birmingham - The Genetics of Self



## Description:-

- genetics of self-incompatibility in *Papaver rhoeas* L.
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Notes: Thesis (Ph.D.) - University of Birmingham, Dept of Genetics.

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

## Gametophytic self

A preliminary survey of the *Oenothera organensis* population. JSTOR provides a digital archive of the print version of New Phytologist. Comparative incompatibility in angiosperms and fungi.

## Genomic organization of the *Papaver rhoeas* self

In order for SI to be maintained, the genes encoded by the S-locus must be co-inherited with no recombination between them. Sc thesis, University of Birmingham, England.

## Population genetics of self

This has enabled us to investigate a number of aspects of SI, which would otherwise be difficult. Cross-classification of the S-alleles of samples from three natural populations.

## Genomic organization of the *Papaver rhoeas* self

An attempt to localize the P.

## The genetical control of self

Expressing a pollen self-incompatibility gene from *Papaver rhoeas* poppy in *Arabidopsis thaliana* renders the latter sensitive to an exquisitely precise induced cell death response. The analytical procedures used to identify incompatibility genotypes and S-alleles in full-sib families that are raised from the seed obtained by crossing plants of known incompatibility genotype in this strictly annual species are also described. Extracts prepared from stigmatic tissue of *Papaver rhoeas* L.

## Plant Self

A basic glycoprotein, with an apparent MW of 22 kDa, which exhibits the specific activity expected of a protein encoded by the self-

incompatibility S- gene has been identified.

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