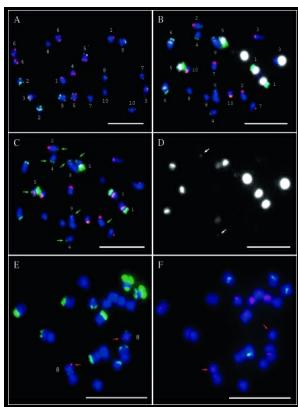


# Physical mapping of 45S and 5S rDNA repetitive sequences to mitotic chromosomes of Brassica species by fluorescence in situ hybridisation

University of Birmingham - The chromosomal distribution of repetitive DNA sequences in *Chrysanthemum boreale* revealed a characterization in its genome



Description: -

- Physical mapping of 45S and 5S rDNA repetitive sequences to mitotic chromosomes of Brassica species by fluorescence in situ hybridisation
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## Genomic in Situ Hybridization

This paper attempts to use three multi-locus PCR-based molecular markers; simple sequence repeats SSR , inter-retrotransposon amplified polymorphism IRAP and retrotransposon-microsatellite amplified polymorphisms REMAP , to analyse genetic diversity in the cowpea accessions. Other papers, including this article, consider genomic aspects of polyploidy.

## Genomic in Situ Hybridization

It would be expected that the chromosomes in these species formed tetravalents during the prophase of meiosis I. Fluorescence in situ hybridization of 5S red and 25S green ribosomal DNA probes to somatic metaphase chromosomes of A *Brassica fruticulosa*, B and C B.

## Identification of 5S and 45S rDNA sites in *Chrysanthemum* species by using oligonucleotide fluorescence in situ hybridization (Oligo

GISH proved to be an excellent tool for the detection of parental chromatin in hybrid genotypes Thomas et al. There is little correspondence between the chromosome numbering that we propose and that put forward by and , because our numbering is based on ranked lengths only, whereas they grouped the chromosomes according to centromere position.

## The chromosomal distribution of repetitive DNA sequences in *Chrysanthemum boreale* revealed a characterization in its genome

Statistical problems in karyotype analysis. Chromosomal localization and characterization of rDNA in the *Brassica* A and C genomes.

## Molecular cytogenetic analysis of the crucian carp, *Carassius carassius* (Linnaeus, 1758) (Teleostei, Cyprinidae), using chromosome staining and fluorescence in situ hybridisation with rDNA probes

Genome evolution: Extinction, continuation or explosion? The chromosome number of B. Polyploidy results in immediate genetic redundancy and represents, with the emergence of new gene functions, an important source of novelty.

### **The chromosomal distribution of repetitive DNA sequences in *Chrysanthemum boreale* revealed a characterization in its genome**

The observed differences are rather caused by the prevailing polymorphism within the diploids and allotetraploids.

### **Physical mapping of DNA repetitive sequences to mitotic and meiotic chromosomes of *Brassica oleracea* var. *alboglabra* by fluorescence in situ hybridization**

Gottfried Künzel, in , 2003 Genomic in situ hybridization Genomic in situ hybridization GISH , which uses total genomic DNA as a probe, is a powerful tool for determining the origin of genomes or chromatin in hybrids. Noorka IR, Taufiqullah, Heslop-Harrison JS, Schwarzacher T. In this Special Issue, we include studies ranging in scope from experimental and genomic, through ecological to more theoretical.

### **Fluorescence in situ hybridization on plant extended chromatin DNA fibers for single**

Precise in-situ localisation of NCAM ET51 and D11529 on human meiotic chromosomes. The crucian carp is included in the least concern IUCN category but is regarded as disappearing in many water bodies of its range. Indeed, arguably, undue emphasis on hazard identification alone has already found its way into some EU chemicals legislation, ignoring more informative weight of evidence and risk assessment approaches, based on sound science, that have served society well over the years.

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