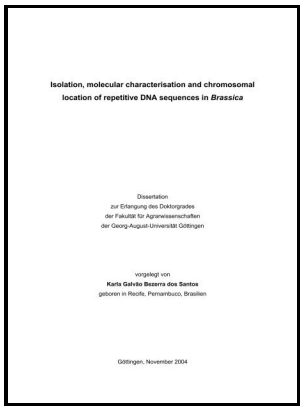
Physical mapping of 45S and 5S rDNA repetitive sequences to mitotic chromosomes of Brassica species by fluorescence in situ hybridisation

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


Isolation, molecular characterisation and chromosomal location of repetitive DNA sequences in *Brassica*

Dissertation
zur Erlangung des Doktorgrades
der Fakultät für Agrarwissenschaften
der Georg-August-Universität Göttingen

vorgelegt von
Karla Galvão Bezerra dos Santos
geboren in Recife, Pernambuco, Brasilien

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

Giemsa stained metaphase a , corresponding karyotype of Carassius carassius b , and metaphase spread sequentially stained with AgNO 3 c and CMA3 d.

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

Acta Ichthyologica et Piscatoria 42 2 : 77—87.

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

The karyotype of this species has been described by , , , , , , , , and. Despite the inability to identify individual chromosomes, GISH proved to be an excellent tool for discrimination of the genome composition of intergeneric hybrids.

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

Moreover, it enabled detailed analyses of chromosome structure and monitoring of the origin and evolution of karyotypes Mandakova and Lysak, 2008. Wang W, Li M, Xu Y, Dai S 2003 Several influencing factors on fluorescent in situ hybridization experimental system applied to Dendranthema spp.

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

Sepsi A, Higgins JD, Heslop-Harrison JS, Schwarzacher T. The obtained results support the hypothesis that CMA 3 staining of GC-rich heterochromatin shows all active and non-active NORs in the chromosomes. We by our clothes met with both curiosity and hostility from the tavern regulars.

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

NOR chromosomes shown in frames in a and b , Ag-NORs and corresponding CMA3-positive sites shown by thick arrows in c and d and shown in inset in d , other CMA3—positive sites shown by thin arrows in d. Xin H, Zhang T, Wu Y, Zhang W, Zhang P, Xi M, Jiang J 2020 An extraordinarily stable karyotype of the woody Populus species revealed by chromosome painting. However, a diversity of molecular approaches, including chromosome painting methods like genomic and fluorescence in situ hybridizations GISH and FISH , genetic mapping, and comparative genetics, provide evidence for both intra- and intergenomic reorganization of polyploid genomes reviewed in Soltis and Soltis, 1993, 1999; Leitch and Bennett, 1997; Wendel, 2000; Raina and Rani, 2001.

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