



ChromoDB

A curated, searchable and traceable resource for plant chromosome counts



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Background

Chromosome counts are scattered and often inconsistent across the literature, motivating a curated and traceable database.



Core strengths

- Curated taxonomy linked to POWO
- Bibliographic traceability via DOI or URL
- Confidence level assigned to each record
- Open, versioned Zenodo datasets
- Partial integration with GBIF (>200,000 records)



Recent additions

- IAPT/IOPB *chromosome data series* ~1,700 references
- Lagascalia* pilot study
- Fedorov et al. (1969)* >79,000 counts and >8,000 references
- Chromosome Botany*



Current release

208,005

records

67,037

taxa

7,694

genera

457

families

172

countries

21,327

references

2,221

journals/sources

24.6%

original verified



Scan to explore ChromoDB

<https://chromodb.net>



OPTIMA publications

Flora Mediterranea

2,944 records
2,119 taxa
50 countries
298 references
99,8% original verified



Bocconeia

1,013 records
726 taxa
31 countries
60 references
100% original verified



Explore ChromoDB

Search for chromosome counts by taxon, geography or bibliography, access detailed records with linked references and external resources, and explore content by source.

ChromoDB
Chromosome Counts Database

Search Main website

Search chromosome number records

A curated working release of plant chromosome counts linked to taxonomy and bibliography.

TAXONOMIC & GEOGRAPHIC SEARCH
Family
Genus
Published name
Accepted name
Country

BIBLIOGRAPHIC SEARCH
Reference free search
Author
Journal
Publication year
Confidence level
All

SEARCH Clean

Tip: Use one or more search fields. Autocomplete is available for family, genus, country, author and journal.

ChromoDB working release - Data are under continuous curation

CHROMOSOME COUNT RECORD

Acer pseudoplatanus L.
2n = 52

Detailed ChromoDB record linked to taxonomy, bibliography and external resources. Country: Bulgaria.

Back to results New search

Taxonomy
Family: Sapindaceae
Genus: Acer
Published name: Acer pseudoplatanus L.
Accepted name: Acer pseudoplatanus L.

Chromosome data
2n: 52
Count derivation: observation

Geography
Country: Bulgaria

Bibliography
Citation: Goranova, V., Stanimirova, P. & Ančev, M. (2006). In G. Kamari, C. Blanché & F. Garbani (eds.) Mediterranean chromosome number reports - 16 (1572 - 1583) - Pt. Medit. 16: 425-431.
URL: Link to source

External links
POWO
GBIF published name
GBIF accepted name

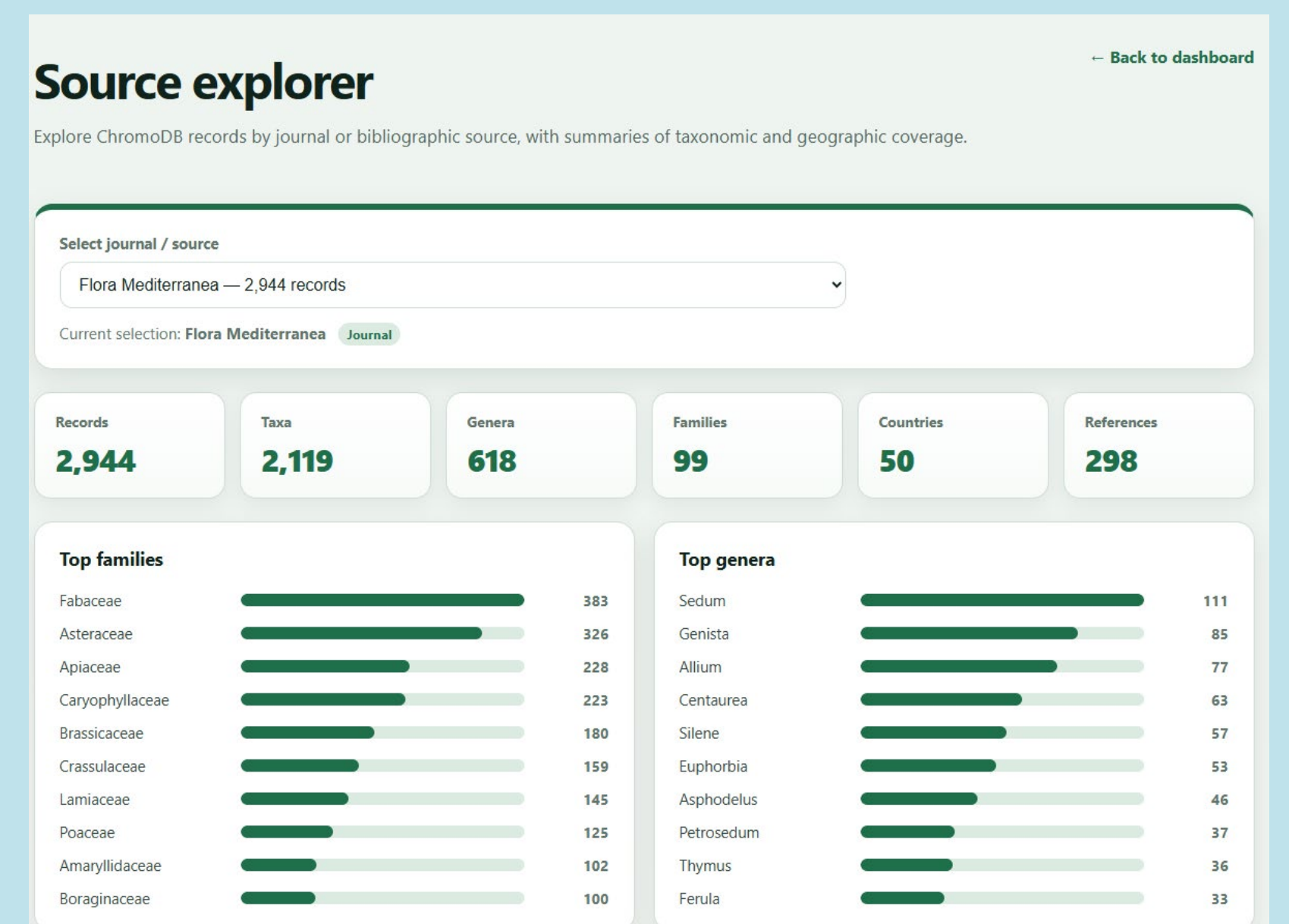


Fig. 1. Search interface

Search by taxon, geography or bibliography.

Fig. 2. Detailed record page with taxonomic, geographic, chromosomal and bibliographic information with external links.

Fig. 3. Source explorer

Browse records by journal or source, with summary statistics.



Impact

ChromoDB provides an open, reliable and interoperable chromosome-count resource supporting **systematics, evolution, biogeography** and **conservation** research.



SYSTEMATICS



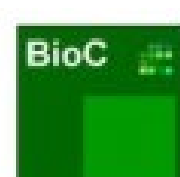
EVOLUTION



BIOGEOGRAPHY



CONSERVATION



UNIVERSITAT DE BARCELONA