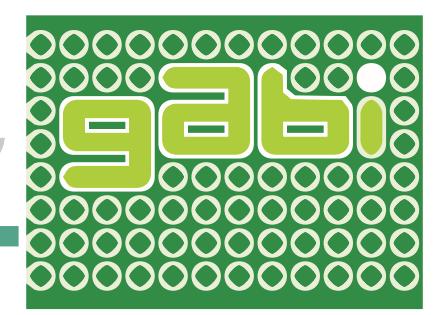


GabiPD Gabi Primary Database

Max Planck Institute
of Molecular Plant Physiology



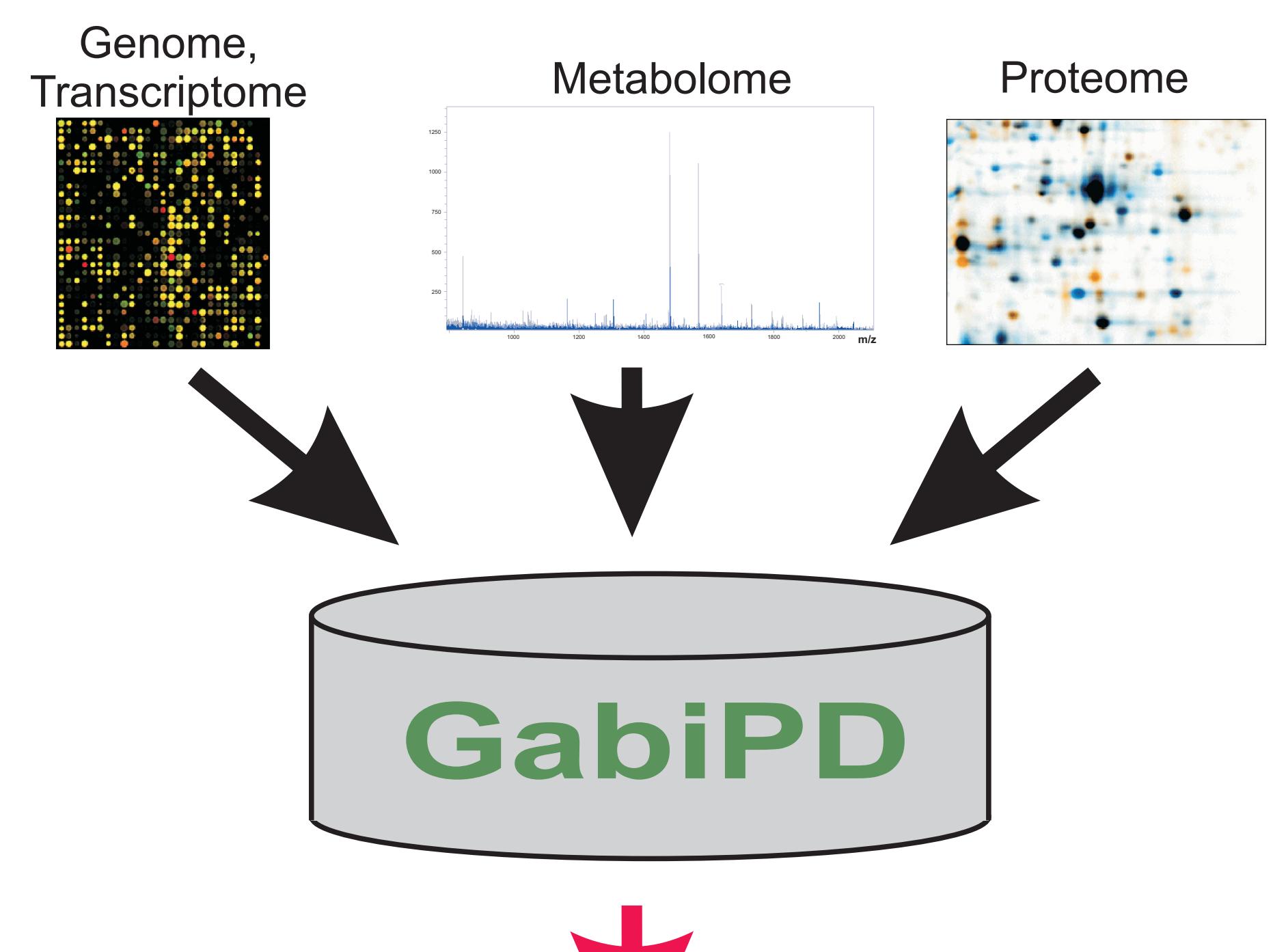
Bundesministerium
für Bildung
und Forschung

a plant integrative ‘omics’ database in GABI-FUTURE

Diego Mauricio Riaño-Pachón, Axel Nagel, Robert Wagner, Elke Weber, Birgit Kersten

*<http://www.gabipd.org>
gabipd@mpimp-golm.mpg.de*

1. ‘omics’ data

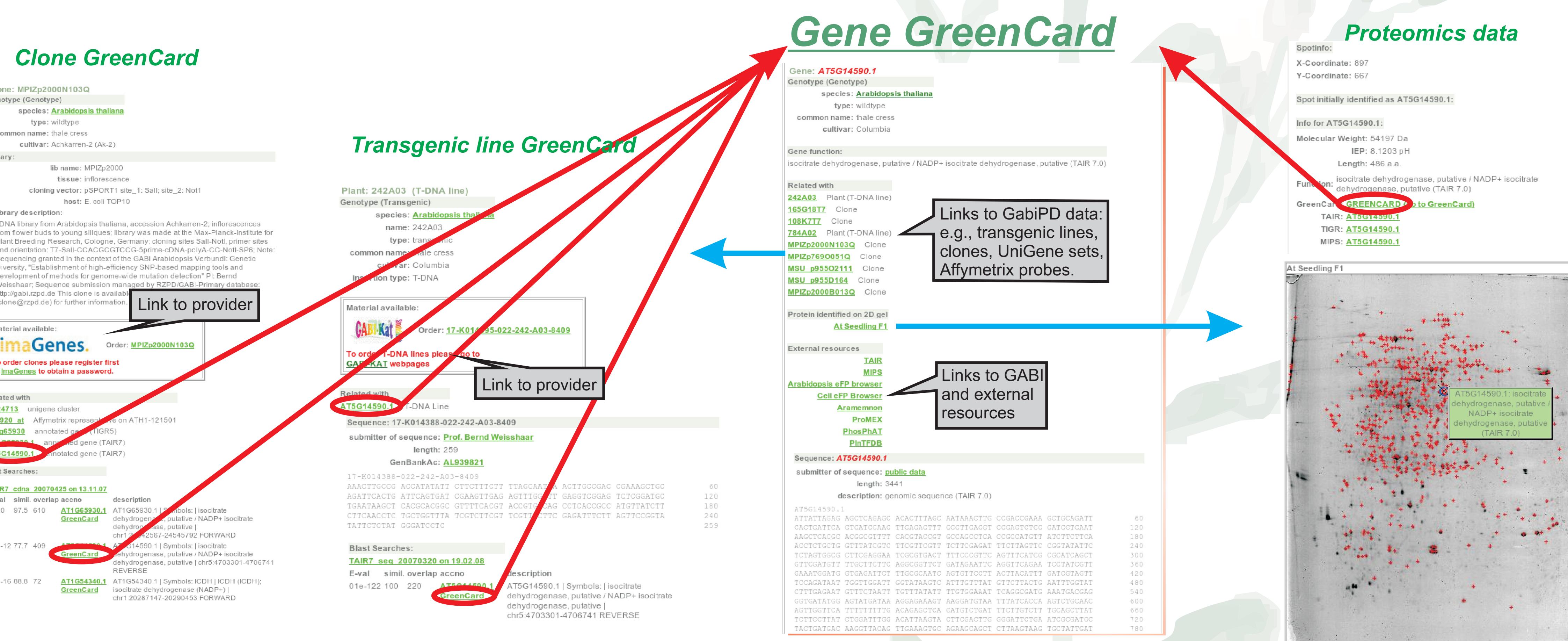


2. Species and data types in GabiPD

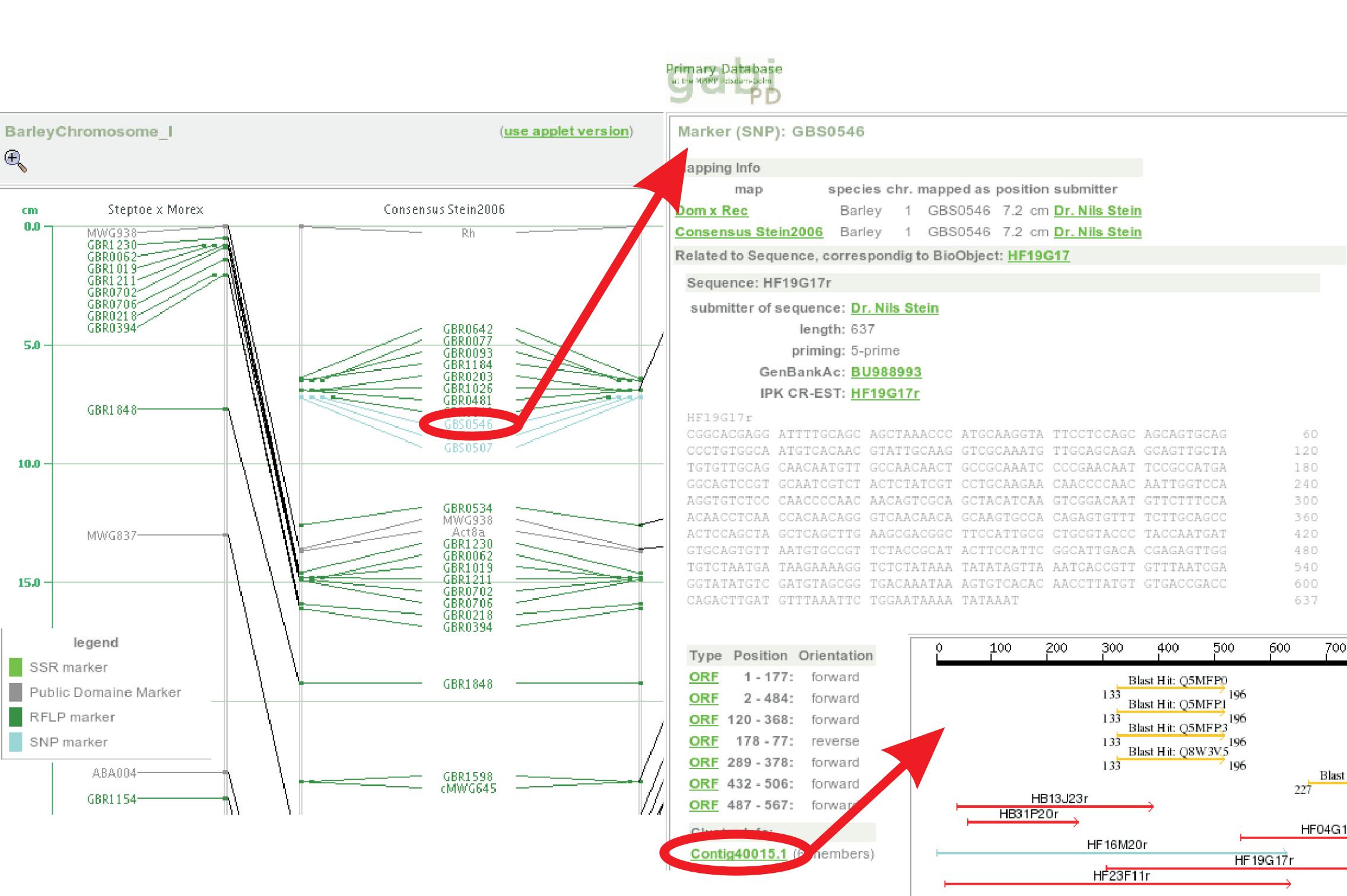
Genomics, transcriptomics							Prot.	Met.
Clones	Sequences	Traces	SNPs	Predicted ORFs	Clusters	Expression profiling	Mascot results	Metabolic profiling
34711	524655	6804	3160	232471	4176	(3733032)	3914	3180
8065	8747	8747		53198	1216			
200563	202469	285	1654	38625				
2133	2691							
5	1							
8	4							
11358	14806			84313				
157622	215355	3828	20	1413624	35960			

Phylogenetic tree depicting the evolutionary relationships among the species represented in **GabiPD**. Species in blue represent completely sequenced and annotated genomes which will be included soon in **GabiPD**, facilitating information transfer in a comparative genomics context. This tree reflects our current knowledge on the evolution of seed plants (references at the bottom). Few additional solanaceous species present in **GabiPD** are not shown in the tree: *S. bulbocastanum*, *S. demissum*, *S. phureja*, and *S. spegazzinii*.

3. All roads lead to the Gene's GreenCard



4. Barley's maps, and a new unigene set



Barley genetic maps are linked to ESTs through the respective markers. A clone list, enriched for full length cDNAs, representing a new 27K unigene set, was made in cooperation with the Institute of Plant Genetics and Crop Plant Research in Gatersleben (IPK). This Unigene set was built using the EST assembly programs CAP3 and TGICL, to obtain: 27729 cluster contigs, 14897 CAP3 singlets and 26956 TGICL singlets. This list and its corresponding sequences are available from the [GabiRD](#) web site.

5. New data in GabiPD

- ❖ List of Barley cDNA clones from the **IPK** representing a new 27K UniGene Set
 - ❖ Barley EST sequences from **GABI-PLANT**
 - ❖ GenBank Accession numbers for 39000 Barley EST sequences from **GABI-SEED** and **GABI-PLANT**
 - ❖ Updated **GABI-KAT** T-DNA insertion lines and sequences (v23, 30.11.2007)
 - ❖ TAIR v7.0 Arabidopsis genome annotation
 - ❖ TAIR v7.0 BLAST hits for all GabiPD sequences from Arabidopsis

6. Future perspectives

- ⌚ Potato SNP data from **GABI-CONQUEST 2**
 - ⌚ Condensed species-specific data overviews in order to ease navigation through the data
 - ⌚ Extend database structure, user interfaces and download functionalities for new types of **GABI-FUTURE** data
 - ⌚ Continuously integrate **GABI-FUTURE** data
 - ⌚ Arabidopsis 2DE data from **GABI trilateral SARA**
 - ⌚ *Vitis vinifera* genetic maps from the **BMELV**
 - ⌚ SNP data of different Arabidopsis accessions from **GABI-EVAST**
 - ⌚ Upgrade the 2-DE interface
 - ⌚ Perform new types of data analysis, e.g. domain analysis in proteins