

## Databases and Tools

IPB researchers are continually developing a number of resources, tools and databases for plant, bio- and chemoinformatics research. They are available for order and online use.

### Computational Mass Spectrometry



**XCMS**  
LC/MS and GC/MS Data Analysis



**CAMERA**  
Collection of annotation related methods for mass spectrometry data



**MassBank**  
Tandem MS Reference Database



**MetFamily**  
For the identification of regulated metabolite families.



**Rdisop**  
Molecular formula calculations



**MetShot**  
High throughput prioritized acquisition and processing of tandem mass spectra



**MetFrag**  
In-silico Metabolite identification

### Bioinformatics



**cisHighlight**  
Highlight cis Elements in Promoter Sequences

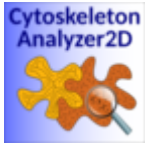


**PaCeQuant**  
A tool for high-throughput quantification of pavement cell shape. PaCeQuant is included in the MiToBo package for Fiji/ImageJ.



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### CytoskeletonAnalyzer2D

For the quantification of cytoskeleton structural patterns in microscopy images with texture measures.



### FlagScreen

Calibration of aequorin-based calcium measurements



### RootDetection

Detects root strands in photographs and measures their lengths.



### Protein Models

Protein structures based on both de-novo molecular dynamics and homology modelling.