

Data addition & update

108 new enzyme classes have been integrated. BRENDA now covers 7095 EC numbers. 885 EC numbers were updated with new manually annotated references and more than 50,000 new data were added in this process. Additional data retrieved by text mining led to a further increase of data.

New features & updates of the BRENDA 2017.1 web interface and BRENDA online, respectively:

- **Update of the organism-specific pathways**

The pathway categories have been revised. There are now 7 categories /groups:

- Central and energy metabolism
- Lipid metabolism
- Amino acid metabolism
- Nucleotide and cofactor metabolism
- Carbohydrate metabolism
- Fermentation and other catabolism
- Xenobiotics and secondary metabolism

- **Update of Ligand Summary Pages**

Ligand Summary Pages now provide an icon directly linking to pathways. Empty fields in *Ligand Summary Pages* are skipped now.

- **New tutorials**

Both pdf and video tutorial have been replaced by (more) recent versions. Tutorials can be accessed via "Getting started → Tutorial/Training" of the bottom menu of the BRENDA homepage.

- **New search option**

Via the query form "Enzyme Structures" PDB structural information can be searched outright. In addition, the result provides links to DoGSiteScorer, a software to detect potential binding pockets, and ProToss, a fully automated hydrogen prediction tool for protein-ligand complexes. The query form can be accessed via the area *Structure-based queries* of the BRENDA homepage.