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The European *Vitis* database (www.eu-vitis.de): development of an on-line uploading application and interactive modification system

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Abstract

Within the European project GrapeGen06 (2007-2011), the European *Vitis* Database has been established encompassing an on-line uploading and interactive modification system, enabling the curators of grapevine collections to administrate their own data. The objective was to motivate curators to continue updating their data, even after the termination of GrapeGen06 and to disburden the database manager from time consuming tasks. In the meanwhile the European *Vitis* Database encompasses MCDP data of 33 grapevine collections gathered within the two European projects GrapeGen06 and Genres081 and the Black Sea-project, amounting to 33.690 preserved accessions. Characterisation data of 1.882 accessions, genetic fingerprints of 4.104 accessions, virus data of 464 accessions and 3.731 photographs of shoot tips, leaves and clusters have been imported. On farm-evaluation data from 54 cultivars and 222 locations with *Vitis sylvestris* populations are listed.

In order to create a private platform for data upload, public, all partners and partner specific access levels had to be established. Prerequisites for data uploading are the adoption of standardized terms. Hence for a series of MCPDs like berry color, crop use, *Vitis* species and trueness-to-type and institute codes terminology has been defined. Descriptors and standardized excel file formats for data import can be found on the European *Vitis* Database homepage. Data upload applications, interactive data set modification and export options have been implemented. Database search functions encompass quick and advanced search, the latter combining multi-crop passport descriptor data with characterization data. Photos, characterization data, and virus data can be retrieved by public users. SSR-marker data are available on the private level only.

A “Catalogue of varieties” on the public access level offers a one side description of an accession. It is downloadable as pdf document. Morphological and agronomical characteristics and photos of the shoot tip, leaves and a bunch are given. In addition a handbook for users has been written. It is available on the public user level as well. Due to the easiness of data import and data administration the acceptance of additional collection inventories is realistic. It is envisaged to continue further gathering grapevine diversity by inclusion of partners in particular from countries not present in the European *Vitis* Database.