

International scientific collaboration

Laboratory of Biometry

Department of Biomolecular Sciences and Biotechnology, University of Milan, Italy
(www.sbb.unimi.it)

Statistical methods of mapping of loci determining quantitative traits

Department of Biology, University of Milan (www.biodip.unimi.it) and other partners within the Marie Curie RTN project TRANSISTOR <http://www.transistor-arabidopsis.org/>.

Processing and interpretation of results of experiments conducted to evaluate gene expression and protein-DNA interactions

Laboratory of Cytogenetics

Institute of Biological, Environmental and Rural Sciences, University of Aberystwyth, Aberystwyth, UK

- study on chromosome pairing and recombination of allotetraploid *F. pratensis* × *L. perenne* hybrids - **prof. N. Jones**
- cytogenetic and molecular study on introgression of genes responsible for frost and drought tolerance within the *Festuca-Lolium* complex - **dr M. Humphreys**

Laboratory of Molecular Cytogenetics and Cytometry, Institute of Experimental Botany, Olomouc, Czech Republic - prof. J. Doležel, dr D. Kopecký

Study of *Festuca* × *Lolium* hybrids by using molecular cytogenetics techniques and molecular markers.

Department of Plant and Environmental Sciences, Norwegian University of Life Sciences, Ås, Norway - prof. O.A. Rognli, dr H. Rudi, S.R. Sandve

Research on the expression of the genes which are involved in the tolerance to frost and drought in *F. pratensis* and *F. arundinacea* using *real time* PCR, 2-D electrophoresis and mass spectrometry.

Unité de Génétique et d'Amélioration des Plantes Fourragères INRA, Lusignan, France - dr M. Ghesquière

Cytogenetic and physiological analysis of *Festulolium* hybrids and cultivars.

Laboratory of Distant Hybrids

CIMMYT (International Maize and Wheat Improvement Center), Mexico

Selection of wheat genotypes resistance to Fusarium head blight.

Research Institute of Crop Production, Praha-Ruzyne Czech Republic

Evaluation of wheat resistance to accumulation of Fusarium mycotoxins in grain.

Laboratory of Genome Analysis

Montana State University, Pisum Genetics Association, USA - prof. W. Weeden
Chromosome mapping in *Pisum*, prof. W. Świecicki, dr. M. Gawłowska (prof. N. Weeden, Montana State University)

CSIC, Cordoba, Spain - dr Diego Rubiales

Investigations on a resistance to ascochytiopsis in pea.

University of Saskatchewan, Canada - prof. B. Taran, dr T. Warkentin

Resistance to lodging and stem stiffness in pea.

Biodiversity International, ECP/GR, Rome

Data base of European *Lupinus* collections

IPK Gattersleben, Germany - dr Andreas Börner, dr Matthias Kotte

Variation of morphological and seed quality characters in *Lathyrus* collection

Department of Agriculture, Western Australia - dr. Hu'an Yang, dr. J. Boersma

Lupinus genetic mapping and exchange of research plant material.

Laboratory of Molecular Biology

CNR – Italy – Polish Academy of Sciences project

Toxigenic fungi of Agricultural importance

European interlaboratory project on identification of resistance genes to leaf rust in wheat using PCR-STS markers

CNRS Perpignan, France - prof. Michel Delseny

Comparative analysis of conservative chromosome segments among *Arabidopsis thaliana* and *Brassica oleracea*.

University of California, Davis, USA - prof. Carlos F. Quiros

Analysis of structure and evolution in genomes of Brassica species. Construction of genetic map of Brassica oleracea genome C.

CNR , Institute of Science of Food Production, Bari, Italy. Dr Antonio Logrieco

Identification of toxigenic fungi metabolites in plant material, and identification of genes involved in production of secondary metabolites in genome of Fusarium pathogens

University of Reading, School of Bioscience, United Kingdom -, Dr Bogdan Dobraszczyk

Analyses of rheological parameters of breadbaking quality in wheat and triticale, in particular using microscale assays.

Rothamsted Research Institute, Harpenden, Wielka Brytania- Dr. Graham King

Consolidation genetic maps of Brassica oleracea L.

Laboratory of Quantitative Genetics

Laboratory of Biotechnology Florimond Desprez Seed Company, France – prof. Pierre Devaux

Genetics and molecular studies on low crossabilities encountered with the Hordeum bulbosum method for haploid production of barley

Reinische Friedrich-Wilhelms-Universität Bonn, prof. R. Pude

Biomass yielding potential of energetic grasses from C4 photosynthetic pathway.

Plant Research International B.U., Wageningen, Holland, Dr Oene Dolstra

Segregation of AFLP and RAPD and simple selection marker for Combustion Quality QTLs in *Miscanthus* genus.

Laboratory of Resistance Genetics

Rothamsted Research, Harpenden, Wielka Brytania

Assessment of willow resistance to rust

Department of Plant Biology, Swedish University of Agricultural Sciences (SLU), Uppsala, Szwecja

Molecular polymorphism of *Melampsora epitea* (willow rust)

Beijing Forestry University, Chinese Academy of Agricultural Sciences

The comparison of *Melampsora* spp. populations from poplars in China and Poland

Institute of Crop Research, Anhui Academy of Agricultural Sciences

Studies of molecular relationships between *Sclerotinia sclerotiorum* using mini- and microsatellite markers

Molecular comparisons of *Leptosphaeria biglobosa* from China and Poland

All-Russia Institute of Plant Protection, Russian Academy of Agricultural Sciences

Diseases of oilseed rape in Russia and Poland

Laboratory of Structural Genomics

Department of Agriculture and Food Western Australia, Perth, Australia – Dr. Hu'an Yang
Collaboration within the framework of International Genetic Material Transfer Agreement between State of Western Australia and IPG PAS, including exchange of plant material (seeds of cultivars, parental lines and mapping population of the narrow-leaved lupin) as well as isolates of pathogenic fungi.

**Institut National de la Recherche Agronomique, Versailles, France – Dr. David Tepfer;
Institut Pasteur, Paris, France – Dr. Monica Sala**
Obtaining of transgenic plant materials producing HIV-1 and HBV antigens for preparation of a bivalent vaccine against AIDS and hepatitis B.

University of Western Australia Perth, Australia – Dr. Matthew Nelson.
Collaboration concerning construction of the genetic map of *L. angustifolius* with the use of sequence defined molecular markers and synteny of *L. angustifolius* and *Medicago truncatula* genomes.

University of Rennes, France – Dr. Abdelkader Ainouche
Collaboration concerning sequence analysis of one of the nodulation genes SymRK and sequencing of the selected BAC clone and comparison of that sequence with sequences of other legume species.