

Personal Information and Contacts

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Education

Giulio Galla obtained the M.S. graduating in Crops and Plant Biotechnology in 2005 with at the Agriculture Faculty of the University of Padova. Since 2007 he spent several training periods in national and international laboratories. In 2009 he attained the Ph.D. title in Crop-Biotechnologies and the mention of Doctor European at the Department of Crop Plant Science of University of Padova. After the Ph.D. he worked for short periods in Italian and European laboratories to carry out research activity on population genetics and seed production. He is currently a Post-Doc in the Laboratory of Genetics and Genomics at DAFNAE - University of Padova.

Teaching activity

From 2008 to 2012 he worked as assistant professor of Prof. Gianni Barcaccia in the academic courses Genomic Analysis and Advanced Biotechnologies.

Research activity and scientific papers

In the last 5 years he was involved in several research mainly focused on the

following themes: i) plant reproductive systems in model species; ii) genome analysis by means of PCR-derived molecular markers; iii) transcriptome analysis by means of high-throughput pyrosequencing, gene expression studies and functional analysis of genes; iv) bioinformatics, Gene Ontology, mining of expression data and their integration in known metabolic pathways. He is currently reviewer of some international scientific journals of genetics and genomics.

He got published 17 original articles on international journals with referees and 39 abstracts on proceedings of Italian meetings and international congresses and workshops.

Since 2013 he is administrating the *Hypericum* flower transcriptome database (<https://147.162.139.232/account/login/>; Galla et al., in prep).

Periods of documented scientific postdoctoral activity

From 17/04/2009 to 19/06/2009

Postdoctoral activity in the project: "Studio del flusso genico in mais". Researches were conducted in the Department of Environmental Agronomy and Crop Science of the University of Padova. The aim of the project was that of investigating the amount of genetic flow eventually existing in two different corn varieties, cultivated in adjacent parcels. Experimental procedures allowed estimating the entity of present gene flow along with variation of pollen transmission according to plant physiological and environmental conditions.

From 16/07/2009 to 31/08/2009

Postdoctoral research activity in the project: "Deep transcriptome sequencing using 454 technology in *Hypericum perforatum*". Researches were conducted in the Apomixis group coordinated by Dr. Timothy F. Sharbel of the Leibniz Institute of Plant Genetics and Crop Plant Research (06466, Gatersleben, Germany). The aim of the project was that of sequencing all mRNAs expressed in flowers of apomictic and sexual plants. Preliminary results of the sexual transcriptome were presented at the Annual Conference of the Italian Society of Agricultural Genetics in September 2010.

From 01/09/2009 to 31/12/2009

Research activity in the project named: "Analisi genomiche in varietà locali di mais". Researches were conducted in the Department of Environmental Agronomy and Crop Science of the University of Padova. In this project different local varieties of corn were investigated by studying both the genetic variability within populations

and the genetic differentiation among populations, using AP-PCR markers to analyze quantitative polymorphisms between pooled DNA samples.

From 15/03/2010 to 14/07/2010

Postdoctoral research activity in the project: "Analisi genetiche e genomiche in radicchio". Researches were conducted in the Department of Environmental Agronomy and Crop Science of the University of Padova. In this project, genetic analyses were carried out to characterize a number of commercial varieties and inbred lines of red chicory. Research activity was based on both dominant and co-dominant molecular markers that were applied to infer the rates of heterozygosity and homozygosity of synthetic varieties and inbred lines, respectively.

From 15/07/2010 to 31/12/2010

Research activity in the project: "Genomica, con esperienza nell'ambito dell'uso di marcatori molecolari per l'identificazione genetica di organismi, con particolare riferimento alle specie vegetali". The project is currently coordinated by Prof. Fanti of the Department of Mechanical Engineering of the University of Padova, while researches are proceeding in the Department of Environmental Agronomy and Crop Science, under the scientific supervision of Prof. Barcaccia. The aim of the project is that of characterizing a collection of ancient pollen grains isolated from very old manufactures. The precise identification of biological specimens is currently in progress using the technology DNA barcoding.

From 01/01/2011 to 31/12/2011

Research activity In the Project: "Genomica comparative e funzionale per clonare e caratterizzare geni candidate al controllo dell'apomissia in iperico". The project was under the scientific supervision of Prof. G Barcaccia at the Department of Environmental Agronomy and Crop Productions of the University of Padova.

From 01/01/2012 to 21/06/2013

Research activity in the project Giovani Studiosi 2010: "Comparative and functional genomics for cloning and characterizing candidate genes for apomixis". The project was under the scientific supervision of Prof. G Barcaccia at the Department of Agriculture Food Natural Resources Animals and Environment of the University of Padova. The project was aimed at studying the possible changes that are associated to the development of the different flower parts in sexual and apomictic *Hypericum perforatum* L. plant accessions for the identification of genes associated to apomixis in this model plant.

List of Publications

- Galla G, Volpato M, Sharbel TF, Barcaccia G. (2013) Computational identification of conserved microRNAs and their putative targets in *Hypericum perforatum* L. flower transcriptome. *Plant Reproduction*. 2: 209-229. (doi:10.1007/S00497-013-0227-6)
- Galla G, Zenoni S, Marconi G, Marino G, Botton A, Pinosa F, Citterio S, Ruperti B, Palmee K, Albertini E, Pezzotti M, Mau M, Sharbel TF, De Storme N, Geeleng D, Barcaccia G. (2011). Sporophytic and gametophytic functions of the cell cycle-associated Mob1 gene in *Arabidopsis thaliana* L. *Gene* 484(1): 1-12 (doi: 10.1016/j.gene.2011.05.009).
- Galla G, Barcaccia G, Schallau A, Puente Molins M, Bäumlein H, Sharbel TF. (2011) The cytohistological basis of apospory in *Hypericum perforatum* L. *Sexual Plant Reproduction* 24(1): 47-61 (doi: 10.1007/s00497-010-0147-7).
- Galla G, Ramina A, Muleo R, Baldoni L, Perrotta G, Barcaccia G, Botton A. (2011) Comparative genomics for identifying flower organ identity genes in peach and olive. *Acta Horticulturae*, 967: 43-53 (ISSN: 0567-7572).
- Galla G, Barcaccia G, Ramina A, Collani S, Alagna F, Baldoni L, Cultrera N, Martinelli F, Sebastiani L, Tonutti P. (2009) Computational annotation of genes differentially expressed along olive fruit development. *BMC Plant Biology*, 9(1): 128 (doi: 10.1186/1471-2229-9-128).
- Ambrosi D, Galla G, Collani S, Barcaccia G. (2013) Oil-rich seeds of *Jatropha curcas* L. as a renewable source of biodiesel: genotyping clones of cultivated varieties and cloning genes for fatty acid biosynthesis. *The International Journal of Plant Reproductive Biology* 5(1): 1-14 (ISSN: 0975-4296).
- Schiavon M, Galla G, Wirtz M, Pilon-Smits EAH, Telatin V, Quaggiotti S, Hell R, Barcaccia G, Malagoli M. (2012) Transcriptome profiling of genes differentially modulated by sulfur and chromium identifies potential targets for phytoremediation and reveals a complex S-Cr interplay on sulfate transport regulation in *B. juncea*. *Journal of Hazardous Materials*, 15, p. 192-205 (doi: 10.1016/j.jhazmat.2012.08.060)
- Barcaccia G, Felicetti M, Galla G, Capomaccio S, Cappelli K, Albertini E, Buttazzoni L, Pieramati C, Silvestrelli M, Verini Supplizi A. (2012) Molecular analysis of genetic diversity, population structure and inbreeding level of the Italian Lipizzan horse. *Livestock Science*, 151 (2), p. 124-133 (10.1016/j.livsci.2012.11.022)
- Collani S, Galla G, Ramina A, Barcaccia G, Alagna F, Càceres EM, Baldoni L, Muleo R, Perrotta G. (2011) Self-incompatibility in olive: a new hypothesis on the S-locus genes controlling pollen-pistil interaction. *Acta Horticulturae*, 967: 133-140 (ISSN: 0567-7572).

- Di Baccio D, Galla G, Bracci T, Andreucci A, Barcaccia G, Tognetti R, Sebastiani L. (2011) Transcriptome analyses of *Populus euramericana* clone I-214 leaves exposed to excess zinc. *Tree Physiology* 31(12): 1293-1308 (doi: 10.1093/treephys/tpr106).
- Sharbel TF, Voigt ML, Corral JM, Galla G, Kumlehn J, Klukas C, Schreiber F, Vogel H, Rotter B. (2010) Apomictic and sexual ovules of *Boechera* display heterochronic global gene expression patterns. *The Plant Cell Online* 22(3): 655-671 (doi: 10.1105/tpc.109.072223)
- Capomaccio S, Verini-Supplizi A, Galla G, Vitulo N, Barcaccia G, Felicetti M, Silvestrelli M, Cappelli K. (2010) Transcription of LINE derived sequences in exercise-induced stress in horses. *Animal Genetics* 41(2): 23-27 (doi: 10.1111/j.1365-2052.2010.02094.x).
- Ambrosi DG, Galla G, Purelli M, Barbi T, Fabbri A, Lucretti S, Sharbel TF, Barcaccia G. (2010) DNA markers and FCSS analyses shed light on the genetic diversity and reproductive strategy of *Jatropha curcas* L. *Diversity* 2(5): 810-836 (doi: 10.3390/d2050810).
- Botton A, Galla G, Conesa A, Bachem C, Ramina A, Barcaccia G. (2008) Large-scale Gene Ontology analysis of plant transcriptome-derived sequences retrieved by AFLP technology. *BMC Genomics* 9(1): 347 (doi: 10.1186/1471-2164-9-347).
- Vitulo N, Vezzi A, Galla G, Citterio S, Marino G, Rupert B, Zermiani M, Albertini E, Valle G, Barcaccia G. (2007) Characterization and evolution of the cell cycle-associated Mob domain-containing proteins in eukaryotes. *Evolutionary Bioinformatics Online* 3: 121-158 (ISSN: 1176-9343).
- Dal Cin V, Galla G, Ramina A. (2007) MdACO expression during abscission. *Molecular Biotechnology* 36(1): 9-13 (doi: 10.1007/s12033-007-0004-6).
- Quaggiotti S, Barcaccia G, Schiavon M, Nicolé S, Galla G, Rossignolo V, Soattin M, Malagoli M. (2007) Phytoremediation of chromium using *Salix* species: Cloning ESTs and candidate genes involved in the Cr response. *Gene* 402(1): 68-80 (doi: 10.1016/j.gene.2007.07.021).