

PERSONAL INFORMATION

Family name, First name: ATTENE, Giovanna

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Nationality: Italian

Date of birth: 20 July, 1956

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CURRENT POSITIONS

2006 - Associate Professor in Plant Genetics, Department of Agricultural, University of Sassari, Italy.
National Scientific Qualification to function as Full Professor in Italian Universities since 2017.

PUBLICATIONS (Source: Scopus)

I produced 34 scientific publications, 31 of which in peer-reviewed indexed journals and 1 book chapters. The total number of publications in indexed international scientific journals in the last 5 years (2013-2018) is 16.

According to Scopus, my total H-index is 17 and the average number of citations per publication is 24.4.

RESEARCH INTERESTS

Key words (max 3): Plant genetic resources, population genetics, evolution and domestication.

Main questions addressed (max 3): The conservation and management of plant genetic resources; the adaptation and domestication process in plants; the study of the level and the structure of genetic diversity in crops populations.

RESEARCH ACHIEVEMENTS

The objective of my research and the main results concerned: 1) The study of the origin, domestication, adaptive diversity and investigation on the 'domestication syndrome' traits in *P. vulgaris*. Population structure and adaptive diversity in *P. vulgaris* e *P. coccineus* outside their origin and domestication centers and their impact for biodiversity conservation and plant breeding. 2) The study of the level and structure of genetic diversity and its evolution over time in Sardinia barley landraces through the use of morpho-phenological and yielding traits, biochemical and molecular tools (isozyme, RAPD, ISSR, SSR, SSAP); the analysis of the linkage disequilibrium level; the analysis of the genotype-environment interaction; the gene flow between landraces and commercial varieties. 3) The study of the genetic structure of *Pyrenophora teres* (the causal agent of barley "net blotch" disease); the evolution of its mating-type genes; the coevolutionary dynamic of the plant-pathosystem *H. vulgaris* - *P.teres*.

EDUCATION

1980 Degree in Agricultural Sciences (MS), University of Sassari, Italy. Grade: Excellent Cum Laude.

PREVIOUS POSITIONS

1981 - 1983 Assistant researcher, Faculty of Agricultural, University of Sassari, Italy.

1983 - 2006 Researcher, Faculty of Agricultural, University of Sassari, Italy.

AWARDS

2010 -Euro 10.000 by the University of Sassari.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1998 - 2018 At the Faculty / Department of Agriculture, University of Sassari, Italy: Supervisor of 7 PhD students and co-supervisor of 2 PhD students; 11 Postdocs; 18 graduate students.

TEACHING ACTIVITIES

1991 - 2018 Teaching position for Bachelors and Masters: "Plant genetics" and "Plant Breeding", University of Sassari, Italy.

2006 - 2010 Teaching position for Bachelor: "Genetics and breeding for forest plants", University of Sassari, Italy.

2018 Teaching position for Bachelors and Masters: "Genomic analysis to study plant biodiversity", University of Sassari, Italy.

ORGANISATION OF SCIENTIFIC MEETINGS and COURSES

2014 - Organising Committee of 58th SIGA Annual Congress, Alghero, Italy.

INSTITUTIONAL RESPONSIBILITIES AND BOARDS OF SCIENTIFIC SOCIETIES

2005 - Scientific Committee of "InterDrought II - The 2nd International Conference on Integrated Approaches to Sustain and Improve Plant production under Drought Stress". Rome, Italy.

2005 - 2018 Member of the Council of the "Centro Interdipartimentale per la Conservazione e la Valorizzazione della Biodiversità Vegetale" (CBV), University of Sassari, Italy.

2006 - 2007 Member of the 'Agrometeorology and ecophysiology of agricultural and forestry ecosystem' PhD School Committee, University of Sassari, Italy.

2007 - 2009 Member of the 'Crop production' PhD School Committee, University of Sassari, Italy.

2009 - 2013 Member of the 'Sciences and Biotechnology of the Agricultural and Forestry System and Food production' PhD School Committee, University of Sassari, Italy.

2010 - 2015 Assistant Director of the CBV, University of Sassari, Italy.

2011 - 2013 Member of Directory Board of the Italian Society of Agricultural Genetics (SIGA).

2012 - 2013 Scientific Committee of the SIGA Annual Congress (56th in Perugia, 57th in Foggia)

2012 - 2013 Assistant Director of the 'Sciences and Biotechnology of the Agricultural and Forestry System and Food production' PhD School.

2012 - 2018 Member of the Council for the "Crop production" curriculum of the PhD School in 'Agricultural Sciences', University of Sassari, Italy.

2013 - 2014 Assistant Coordinator of the 'Agricultural Sciences' PhD School.

2013 - 2018 Member of the 'Agricultural Sciences' PhD School Committee, University of Sassari, Italy.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Since 1986: Member of SIGA (Italian Society for Agricultural Genetics).

EDITORIAL BOARDS AND REVIEWER ACTIVITY

2008 - 2018 Scientific Reviewer for ISI journals: *Frontiers in plant sciences*, *Field Crops Research*, *Journal of Agricultural Science and Technology*, *Plant Genetic Resources*, *Plant Biology*, *Diversity*, *BMC Genetics*, *Genetic Resources and Crop Evolution*, *Genome*, *BMC Plant Biology*, *Molecular Breeding*, *PlosOne*.

CURRENT and PREVIOUS RESEARCH GRANTS

The main projects from 2000:

2000 Project Leader - Research Project funded by the Sardinia Region, Italy, L.R. 43/1950, N.171N "Study, conservation and utilization of biodiversity of the Sardinian Barley (*Hordeum vulgare* L.) populations".

2000 - 2001 Principal Investigator (Project Partner) - Italian National MURST Project N. 9907384522 "Evaluation of 'species-environment' systems for 'in situ' conservation of genetic resources of cultivated species".

2003 Project Leader - Research Project funded by the Sardinia Foundation Bank N.27/4721 "Safeguards and valorization of the grain legumes germplasm of Sardinia".

2003 - 2004 Principal Investigator (Project Partner) - Italian National MIUR Project N.2002075423 "Beans in Europe: structure of genetic diversity under the effect of colonization and breeding system".

2005 - 2006 Project Leader - Research Project funded by the Sardinia Foundation Bank N.389/2005-0112 "Phaseolin locus genetic diversity in common bean (*Phaseolus vulgaris* L.): breeding for agronomic and economic account and for conservation and valorization of local varieties".

2005 - 2007 Project Leader - Research Project funded by the Sardinia Region, Italy, L.R. 499/1999 "Conservation of Plant Biodiversity for the maintenance and protection of local populations (landraces) of two cultivated aromatic species (basil and onion) and natural populations of two wild species (asparagus and cardoon) for human consumption, also for the valorization of typical local products".

2006 - 2007 Principal Investigator (Project Partner) - Italian National MIUR Project N.2005071310 "Genetic structure and linkage disequilibrium in wild and domesticated populations of *Phaseolus vulgaris* L.".

2008 - 2009 Project Leader - Research Project funded by the Sardinia Foundation Bank N.1054/2008.0462 "Microsatellite analysis, development of tools and characterization of horticultural germplasm from Sardinia".

2010 - 2011 Principal Investigator (Project Partner) - Italian National MIUR Project N.20083PFSXA "Tagging genes and genomic regions involved in adaptive processes during domestication and crop introduction into Europe of *Phaseolus vulgaris* L. ".

2010 - 2011 Project Leader - Research Project funded by the Sardinia Foundation Bank
N.1001/2010.0419 "Breeding in common bean (*Phaseolus vulgare* L.) for biological agriculture".
2011 - 2012 Project Leader - Research Project funded by the Sardinia Region, Italy, L.R. 7/2007,
N.2039/270 "Genomics and Metabolomics of 'Spinoso Sardo' globe artichoke".
2013 - 2015 Project Leader - Research Project funded by the Sardinia Foundation Bank
N.U475.2013/AI.399.MGB and N.2013.0321 "Valorization of tomato local varieties and their utilization to
identify genes for quality and biotic and abiotic stress".
2015 - 2017 Principal Investigator (Project Partner) - Research Project funded by the Sardinia Region,
Italy, L.R. 7/2007, CRP-79329 "BIOS: study and valorization of Sardinian Barley biodiversity".

MAJOR COLLABORATIONS

Roberto Papa (Italy) Domestication and adaptation
Antony H.D. Brown (Australia) Population genetics and biodiversity
Donal O'Sullivan (Great Britain) Mapping
Paul Gepts (USA) *Phaseolus* diversity
Ezio Portis (Italy) GWAS in artichoke
Jim J. Giovannoni (USA) Quality traits in tomato