

# Fabio Marroni



*Topics I love:*  
Genetics  
Bioinformatics  
Agrigenomics  
Statistical Genetics



## Personal information

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**“Abilitazione”** For the purposes of the Italian law, I hold the “abilitazione” for tenure track associate professor in genetics (Genetica, 05/I1) and agricultural genetics (Chimica Agraria, Genetica Agraria e Pedologia, 07/E1), valid until 10/04/2023

## Teaching

- 2017** Teacher (eQTL mapping) in the Course organized by the Italian Society of Agricultural Genetics “GWAS: from theory to practice”, Canazei July 4th-7th. Seminar series (three lessons) in Coffee Genetics – Master in Coffee Economics and Science (Trieste, Italy, 2<sup>nd</sup>, 3<sup>rd</sup> and 5<sup>th</sup> May)
- 2016** Seminar series (two lessons) on analysis of NGS data for undergraduate students. Course “Genome analysis and Bioinformatics” (on behalf of Michele Morgante).
- 2015** Seminar series (three lessons) on analysis of NGS data for undergraduate students. Course “Genome analysis and Bioinformatics” (on behalf of Michele Morgante).
- 2014** One day teaching in Scuola Superiore Sant’Anna (Pisa, Italy) course in Applied Bioinformatics (Graduate and Undergraduate students)  
Seminar series (four lessons, two days) in NGS analysis of structural variants in the Course PON Ricerca e Competitività (PONa3\_00134/F5)  
Teacher of the short course “Introduction to Genomics” in the framework of the project: “MODULI FORMATIVI DALLA SCUOLA ALL’UNIVERSITA” (Three lessons)
- 2013** Seminar series (three lessons) on Fst, Hardy-Weingberg equilibrium, and nucleotide diversity for undergraduate students. Course “Genetic Resources in Agriculture” (on behalf of Raffaele Testolin).  
Seminar series (two lessons) on RNAseq for undergraduate students. Course “Genome analysis and Bioinformatics” (on behalf of Michele Morgante).  
One day teaching in the Bioinformatics Module in the Course PON Ricerca e Competitività 2007-2013 (01\_01623/F)  
One day teaching in Animal Genetics Module in the Course PON Onev – Corso Esperto in Omiche Animali
- 2012** Seminar series (two lessons) on RNAseq for undergraduate students. Course “Genome analysis and Bioinformatics” (on behalf of Michele Morgante).  
One day teaching in Scuola Superiore Sant’Anna (Pisa, Italy) course in Applied Bioinformatics (Graduate and Undergraduate students)
- 2008-2010** Contract professor of the course “Genetics (BIO/05)” for first year undergraduate students of “Veterinary Medicine” and “Environmental and Natural Sciences”, University of Udine, Italy.

**2008** Seminar series (two lessons) on Hardy-Weingberg equilibrium for undergraduate students. Course “Genetic Resources in Agriculture” (on behalf of Raffaele Testolin).

## Employment history

### December, 21<sup>st</sup> 2012 - Present

Occupation or position held Assistant Professor (Fixed term, L. 240/10)  
Main activities and responsibilities Analysis of genomic data, coordination of PhD students and Post-Docs  
Name and address of employer University of Udine, Via Palladio 8, 33100 Udine, Italy

### August 2012 – December 2012

Occupation or position held Research collaborator  
Main activities and responsibilities Bioinformatic data analysis  
Name and address of employer IGA Technology Services S.r.l., Via Linussio 51, 33100 Z.I.U. Udine, Italy

### August 2008 – August 2012

Occupation or position held Lab assistant with research duties  
Main activities and responsibilities Collaboration to the research project ENERGYPOPLAR  
Name and address of employer Institute of Applied Genomics (IGA), Via Linussio 51, 33100 Z.I.U. Udine, Italy

### June 2005 – July 2008

Occupation or position held Researcher, Section Manager  
Main activities and responsibilities Genetic Epidemiology and Biostatistics  
Name and address of employer EURAC research, Viale Druso 1, 39100 Bolzano Italy

### January 2005 – September 2005

Occupation or position held On site Collaborator  
Main activities and responsibilities Genetic Epidemiology and Biostatistics  
Name and address of employer NIH/NHGRI, IDRIB, 333 Cassell Drive, 21224 Baltimore, MD, USA

### March 2000 – June 2001

Occupation or position held Collaboration to Research Activity  
Main activities and responsibilities Photobiology and Biophysics  
Name and address of employer Institute of Biophysics, CNR (National Research Council), Area Della Ricerca, Via G. Moruzzi 1 - 56124 Pisa, Italy

### February 2000 – June 2000

Occupation or position held Collaborator within “Progetto Ambiente” sponsored by Regione Toscana, a project for Environmental Education in kindergarten, primary and secondary schools  
Main activities and responsibilities Teacher and Advisor  
Name and address of employer Tessa Coop, Piazza al Serchio, Lucca, Italy

## PhD tutoring

Co-supervisor (together with Prof. Michele Morgante) of the PhD projects “Building Catalogues of Genetic Variation in Poplar” (PhD candidate, Sara Pinosio, 2012), “Characterisation of the pan-genome of *Vitis vinifera* using Next Generation Sequencing” (PhD candidate Gabriele Magris, 2014), “Identification and mapping of loci controlling viability in *Vitis vinifera* crosses (PhD candidate Alice Fornasiero, 2016) and “Identification of structural variation in *Zea mays*: use of paired-end mapping and development of a novel algorithm based on split reads” (PhD candidate Ettore Zapparoli, 2016).

## Education and training

### 2005: PhD

Thesis

Experimental and Molecular Oncology

La predizione dello stato di portatore di mutazioni germinali in *BRCA1* e *BRCA2* - Valutazione dei modelli esistenti, stima delle penetranze, ed elaborazione di un modello adattato alle popolazioni italiane (Predicting carrier status for mutations in *BRCA1* and *BRCA2* - Evaluation of existing models, penetrance estimation, and development of a model tailored for the Italian populations).

University

University of Pisa

Date

08/04/05

Tutor

Silvano Presciuttini

### 1999: MSc

Thesis

Biology (110/110 *cum laude*)

Risposta e fotorisposta di *Ophryoglena flava* a radiazioni ultraviolette (Response and Photoresponse of *Ophryoglena flava* to UV radiations)

University

University of Pisa

Date

19/07/1999

Tutor

Giuliano Colombetti and Roberto Marangoni

## Personal skills and competences

Mother tongue

Italian

Other languages

English, German

Self-assessment

European level (\*)

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient	C1	Proficient	C1	Proficient	C1	Proficient	C1	Proficient
B1	Independent	B1	Independent	B1	Independent	B1	Independent	B1	Independent

(\*) Common European Framework of Reference for Languages

## Peer Reviewed Publications

- Marroni F, Scaglione D, Pinosio S, Policriti A, Miculan M, Di Gaspero G, Morgante M. **Reduction of heterozygosity (ROH) as a method to detect mosaic structural variation.** *Plant Biotechnol J.* **2017** Jan 5. doi: 10.1111/pbi.12691.
- Balestrini R, Salvioli A, Dal Molin A, Novero M, Gabelli G, Paparelli E, Marroni F, Bonfante P. **1. Impact of an arbuscular mycorrhizal fungus versus a mixed microbial inoculum on the transcriptome reprogramming of grapevine roots.** *Mycorrhiza.* **2016** Dec 27. doi: 10.1007/s00572-016-0754-8.
- Pinosio S, Giacomello S, Faivre-Rampant P, Taylor G, Jorge V, Le Paslier MC, Zaina G, Bastien C, Cattonaro F, Marroni F, Morgante M. **Characterization of the Poplar Pan-Genome by Genome-Wide Identification of Structural Variation.** *Mol Biol Evol.* **2016** Oct;33(10):2706-19. doi: 10.1093/molbev/msw161
- Giordani T, Cossu RM, Mascagni F, Marroni F, Morgante M, Cavallini A, Natali L. **Genome-wide analysis of LTR-retrotransposon expression in leaves of Populus.** *Tree Genetics and Genomes* **2016** 12;4;1-14.
- Ciani E, Lasagna E, D'Andrea M, Alloggio I, Marroni F, Ceccobelli S, Delgado Bermejo JV, Sarti FM, Kijas J, Lenstra JA, Pilla F; International Sheep Genomics Consortium. **Merino and Merino-derived sheep breeds: a genome-wide intercontinental study** *Genet Sel Evol.* **2015** Aug 14;47:64
- Pinosio S, González-Martínez SC, Bagnoli F, Cattonaro F, Grivet D, Marroni F, Lorenzo Z, Pausas JG, Verdú M, Vendramin GG. **First insights into the transcriptome and development of new genomic tools of a widespread circum-Mediterranean tree species, *Pinus halepensis* Mill.** *Mol Ecol Resour.* **2014** Jan 22. doi: 10.1111/1755-0998.12232.
- International Peach Genome Initiative, Verde I, Abbott AG, Scalabrin S, Jung

- S, Shu S, Marroni F, Zhebentyayeva T, Dettori MT, Grimwood J, Cattonaro F, Zuccolo A, Rossini L, Jenkins J, Vendramin E, Meisel LA, Decroocq V, Sosinski B, Prochnik S, Mitros T, Policriti A, Cipriani G, Dondini L, Ficklin S, Goodstein DM, Xuan P, Del Fabbro C, Aramini V, Copetti D, Gonzalez S, Horner DS, Falchi R, Lucas S, Mica E, Maldonado J, Lazzari B, Bielenberg D, Pirona R, Miculan M, Barakat A, Testolin R, Stella A, Tartarini S, Tonutti P, Arús P, Orellana A, Wells C, Main D, Vizzotto G, Silva H, Salamini F, Schmutz J, Morgante M, Rokhsar DS. **The high-quality draft genome of peach (*Prunus persica*) identifies unique patterns of genetic diversity, domestication and genome evolution.** *Nat Genet.* **2013** May;45(5):487-94.
8. Vanholme B, Cesarino I, Goeminne G, Kim H, Marroni F, Van Acker R, Vanholme R, Morreel K, Ivens B, Pinosio S, Morgante M, Ralph J, Bastien C and Boerjan W. **Breeding with rare defective alleles: a natural *Populus nigra* HCT mutant with modified lignin as a case study.** *New Phytol.* **2013** May;198(3):765-76.
  9. Minelli C, De Grandi A, Weichenberger CX, Gögele M, Modenese M, Attia J, Barrett JH, Boehnke M, Borsani G, Casari G, Fox CS, Freina T, Hicks AA, Marroni F, Parmigiani G, Pastore A, Pattaro C, Pfeufer A, Ruggeri F, Schwienbacher C, Taliun D, Pramstaller PP, Domingues FS, Thompson JR. **Importance of different types of prior knowledge in selecting genomewide findings for follow-up.** *Genet Epidemiol.* **2013** Feb;37(2):205-13
  10. Thompson JR, Gögele M, Weichenberger CX, Modenese M, Attia J, Barrett JH, Boehnke M, De Grandi A, Domingues FS, Hicks AA, Marroni F, Pattaro C, Ruggeri F, Borsani G, Casari G, Parmigiani G, Pastore A, Pfeufer A, Schwienbacher C, Taliun D, Consortium C, Fox CS, Pramstaller PP, Minelli C. **SNP prioritization using a bayesian probability of association.** *Genet Epidemiol.* **2013** Feb;37(2):214-21
  11. Dastani Z, *et al.* **Novel loci for adiponectin levels and their influence on type 2 diabetes and metabolic traits: a multi-ethnic meta-analysis of 45,891 individuals.** *PLoS Genet.* **2012**;8(3):e1002607.
  12. Schiavi F, Demattè S, Cecchini ME, Taschin E, Bobisse S, Del Piano A, Donner D, Barbareschi M, Manera V, Zovato S, Erlic Z, Savvoukidis T, Barollo S, Grego F, Trabalzini F, Amistà P, Grandi C, Branz F, Marroni F, Neumann HP, Opocher G. **The endemic paraganglioma syndrome type 1: origin, spread, and clinical expression.** *J Clin Endocrinol Metab.* **2012** Apr;97(4):E637-41.
  13. Marroni F, Pinosio S, Di Centa E, Jurman I, Boerjan W, Felice N, Cattonaro F, Morgante M. **Large-scale detection of rare variants via pooled multiplexed next-generation sequencing: towards next-generation Ecotilling.** *Plant J.* **2011** Aug;67(4):736-45.
  14. Chambers JC, *et al.* **Genome-wide association study identifies loci influencing concentrations of liver enzymes in plasma.** *Nat Genet.* **2011** Oct 16;43(11):1131-8.
  15. Marroni F, Pinosio S, Zaina G, Fogolari F, Felice N, Cattonaro F, Morgante M. **Nucleotide diversity and linkage disequilibrium in *Populus nigra* cinnamyl alcohol dehydrogenase (CAD4) gene.** *Tree Genetics and Genomes.* **2011**, 7(5): 1011-23.
  16. Pastrello C, Pin E, Marroni F, Bedin C, Fornasarig M, Tibiletti MG, Oliani C, de Leon MP, Urso ED, Puppa LD, Agostini M, Viel A. **Integrated analysis of unclassified variants in mismatch repair genes.** *Genet Med.* **2011** Jan 13. Feb;13(2):115-24.
  17. Pichler I, *et al.* **Identification of a common variant in the TFR2 gene implicated in the physiological regulation of serum iron levels.** *Hum Mol Genet.* **2011** Mar 15;20(6):1232-40.
  18. Teslovich TM *et al.* **Biological, clinical and population relevance of 95 loci for blood lipids.** *Nature.* **2010** Aug 5;466(7307):707-13.
  19. Eijgelsheim M, *et al.* **Genome-wide association analysis identifies multiple loci related to resting heart rate.** *Hum Mol Genet.* **2010** Oct 1;19(19):3885-94. Epub 2010 Jul 16.
  20. Pichler I, Fuchsberger C, Platzer C, Calişkan M, Marroni F, Pramstaller PP, Ober C. **Drawing the history of the Hutterite population on a genetic landscape: inference from Y-chromosome and mtDNA genotypes.** *Eur J Hum Genet.* **2010** 18(4):463-70.

21. Wang W, Niendorf KB, Patel D, Blackford A, Marroni F, Sober AJ, Parmigiani G, Tsao H. **Estimating CDKN2A carrier probability and personalizing cancer risk assessments in hereditary melanoma using MelaPRO.** *Cancer Res*, 2010 Jan 15;70(2):552-9.
22. Pichler I, Marroni F, Pattaro C, Lohmann K, de Grandi A, Klein C, Hicks AA, Pramstaller PP. **Parkin gene modifies the effect of RLS4 on the age at onset of restless legs syndrome (RLS).** *Am J Med Genet B Neuropsychiatr Genet*, 2010: Jan 5;153B(1):350-5.
23. Hicks AA *et al.* **Genetic determinants of circulating sphingolipid concentrations in European populations.** *PLoS Genet*. 2009 Oct;5(10):e1000672.
24. De Grandi A, Volpato CB, Bedin E, Pattaro C, Marroni F, Pichler I, Hicks AA, Casari G, Pramstaller PP. **ParkScreen: a low-cost rapid linkage marker panel for Parkinson's disease.** *J Mol Neurosci*. 2009 Sep;39(1-2):235-41.
25. Marroni F, Pfeufer A, Aulchenko YS, Franklin CS, Isaacs A, Pichler I, Wild SH, Oostra BA, Wright AF, Campbell H, Witteman JC, Kääh S, Hicks AA, Gyllensten U, Rudan I, Meitinger T, Pattaro C, van Duijn CM, Wilson JF, Pramstaller PP, on behalf of the EUROSPAN Consortium. **A Genome-Wide Association Scan of RR and QT Interval Duration in 3 European Genetically Isolated Populations: The EUROSPAN Project.** *Circ Cardiovasc Genet*, 2009 Aug; 2: 322 - 328.
26. Pattaro C, Aulchenko YS, Isaacs A, Vitart V, Hayward C, Franklin CS, Polasek O, Kolcic I, Biloglav Z, Campbell S, Hastie N, Lauc G, Meitinger T, Oostra BA, Gyllensten U, Wilson JF, Pichler I, Hicks AA, Campbell H, Wright AF, Rudan I, van Duijn CM, Riegler P, Marroni F, Pramstaller PP; EUROSPAN Consortium. **Genome-wide linkage analysis of serum creatinine in three isolated European populations.** *Kidney Int*. 2009 Aug;76(3):297-306.
27. Pfeufer A, Sanna S, Arking DE, Müller M, Gateva V, Fuchsberger C, Ehret GB, Orrú M, Pattaro C, Köttgen A, Perz S, Usala G, Barbalic M, Li M, Pütz B, Scuteri A, Prineas RJ, Sinner MF, Gieger C, Najjar SS, Kao WH, Mühlenstein TW, Dei M, Haple C, Möhlenkamp S, Crisponi L, Erbel R, Jöckel KH, Naitza S, Steinbeck G, Marroni F, Hicks AA, Lakatta E, Müller-Myhsok B, Pramstaller PP, Wichmann HE, Schlessinger D, Boerwinkle E, Meitinger T, Uda M, Coresh J, Kääh S, Abecasis GR, Chakravarti A. **Common variants at ten loci modulate the QT interval duration in the QTSCD Study.** *Nat Genet*. 2009 Apr;41(4):407-14.
28. Johansson A, Marroni F, Hayward C, Franklin CS, Kirichenko AV, Jonasson I, Hicks AA, Vitart V, Isaacs A, Axenovich T, Campbell S, Floyd J, Hastie N, Knott S, Lauc G, Pichler I, Rotim K, Wild SH, Zorkoltseva IV, Wilson JF, Rudan I, Campbell H, Pattaro C, Pramstaller P, Oostra BA, Wright AF, van Duijn CM, Aulchenko YS, Gyllensten U; for the EUROSPAN Consortium. **Linkage and Genome-wide Association Analysis of Obesity-related Phenotypes: Association of Weight With the MGAT1 Gene.** *Obesity (Silver Spring)*. 2010 Apr;18(4):803-8.
29. Johansson A, Marroni F, Hayward C, Franklin CS, Kirichenko AV, Jonasson I, Hicks AA, Vitart V, Isaacs A, Axenovich T, Campbell S, Dunlop MG, Floyd J, Hastie N, Hofman A, Knott S, Kolcic I, Pichler I, Polasek O, Rivadeneira F, Tenesa A, Uitterlinden AG, Wild SH, Zorkoltseva IV, Meitinger T, Wilson JF, Rudan I, Campbell H, Pattaro C, Pramstaller P, Oostra BA, Wright AF, van Duijn CM, Aulchenko YS, Gyllensten U; EUROSPAN Consortium.: **Common variants in the JAZF1 gene associated with height identified by linkage and genome-wide association analysis.** *Hum Mol Genet*. 2009 Jan 15;18(2):373-80.
30. Aulchenko YS, Ripatti S, Lindqvist I, Boomsma D, Heid IM, Pramstaller PP, Penninx BW, Janssens AC, Wilson JF, Spector T, Martin NG, Pedersen NL, Kyvik KO, Kaprio J, Hofman A, Freimer NB, Jarvelin MR, Gyllensten U, Campbell H, Rudan I, Johansson A, Marroni F, Hayward C, Vitart V, Jonasson I, Pattaro C, Wright A, Hastie N, Pichler I, Hicks AA, Falchi M, Willemsen G, Hottenga JJ, de Geus EJ, Montgomery GW, Whitfield J, Magnusson P, Saharinen J, Perola M, Silander K, Isaacs A, Sijbrands EJ, Uitterlinden AG, Witteman JC, Oostra BA, Elliott P, Ruukonen A, Sabatti C, Gieger C, Meitinger T, Kronenberg F, Döring A, Wichmann HE, Smit JH, McCarthy MI, van Duijn CM, Peltonen L; ENGAGE Consortium. **Loci influencing lipid levels and**

- coronary heart disease risk in 16 European population cohorts. *Nat Genet.* 2009 Jan;41(1):47-55.
31. Riegler A, Marroni F, Pattaro C, Gueresi P, Pramstaller PP. **Isolation and marriage patterns in four South Tyrolean villages (Italy) during the nineteenth century.** *J Biosoc Sci.* 2008 Sep;40(5):787-91.
  32. Marroni F, Cipollini G, Peissel B, D'Andrea E, Pensabene M, Radice P, Caligo M.A, Presciuttini S, Bevilacqua G: **Reconstructing the genealogy of a BRCA1 founder mutation by phylogenetic analysis.** *Annals of Human Genetics* 2008; 72(Pt 3):310-8.
  33. Marroni F, Grazio D, Pattaro C, Devoto M, Pramstaller P. **Estimates of Genetic and Environmental Contribution to 43 Quantitative Traits Support Sharing of a Homogeneous Environment in an Isolated Population from South Tyrol, Italy.** *Hum Hered.* 2008;65(3):175-182.
  34. Pattaro C, Marroni F, Riegler A, Mascalzoni D, Pichler I, Volpato CB, Dal Cero U, De Grandi A, Egger C, Eisendle A, Fuchsberger C, Gogele M, Pedrotti S, Pinggera GK, Stefanov SA, Vogl FD, Wiedermann CJ, Meitinger T, Pramstaller PP: **The genetic study of three population microisolates in South Tyrol (MICROS): study design and epidemiological perspectives.** *BMC Med Genet.* 2007 Jun 5;8(1):29.
  35. Marroni F, Pichler I, De Grandi A, Beu Volpato C, Vogl FD, Pinggera GK, Bailey-Wilson JE and Pramstaller PP: **Population isolates in South Tyrol and their value for genetic dissection of complex diseases.** *Annals of Human Genetics* 2006 70 (6), 812-821.
  36. Pichler I, Marroni F, Beu Volpato C, Gusella JF, Kleine C, Casari G, De Grandi A, Pramstaller PP: **Linkage Analysis Identifies a Novel Locus for Restless Legs Syndrome on Chromosome 2q in a South Tyrolean Population Isolate.** *American Journal of Human Genetics* 2006 79(4):716-23.
  37. Marroni F, Pastrello C, Benatti P, Torrini M, Barana D, Lucci Cordisco D, Viel A, Mareni C, Oliani C, Genuardi M, Bailey-Wilson JE, Ponz De Leon M, Presciuttini S: **A genetic model for determining MSH2 and MLH1 carrier probabilities based on family history and tumor microsatellite instability.** *Clinical Genetics* 2006 69(3):254-62.
  38. Ciampolini R, Cetica V, Ciani E, Mazzanti E, Fosella X, Marroni F, Biagetti M, Sebastiani C, Papa P, Filippini G, Cianci D, Presciuttini S: **Statistical analysis of individual assignment tests among four cattle breeds using fifteen STR loci** *J. Anim Sci.* 2006 84: 11-19.
  39. Marangoni R, Marroni F, Gioffre D, Ghetti F, Colombetti G: **Biological Weighting Function of the UV-B induced impairment of phototaxis in the fresh water ciliate Ophryoglena flava.** *Photochemistry and Photobiology* 2004; 80(3):408-11.
  40. Marroni F, Aretini P, D Andrea E, Caligo MA, Cortesi L, Viel A, Ricevuto E, Montagna M, Cipollini G, Federico M, Santarosa M, Marchetti P, Bailey-Wilson JE, Bevilacqua G, Parmigiani G and Presciuttini S: **Penetrances of breast and ovarian cancer in a large series of families tested for BRCA1/2 mutations.** *European Journal of Human Genetics* 2004;12(11):899-906.
  41. Marroni F, Curcio M, Fornaciari S, Lapi S, Mariotti ML, Scatena F, Presciuttini S: **Micro-geographic variation of HLA A, B and DR haplotype frequencies in Tuscany (Italy): implications for recruitment of bone marrow donors.** *Tissue antigens* 2004; 64(4): 478-85.
  42. Marroni F, Aretini P, D'Andrea E, Caligo MA, Cortesi L, Viel A, Ricevuto E, Montagna M, Cipollini G, Ferrari S, Santarosa M, Bisegna R, Bailey-Wilson JE, Bevilacqua G, Parmigiani G, Presciuttini S: **Evaluation of widely used models for predicting BRCA1 and BRCA2 mutations.** *Journal of Medical Genetics* 2004;41(4):278-85.
  43. Aretini P, D'Andrea E, Pasini B, Viel A, Costantini RM, Cortesi L, Ricevuto E, Agata S, Bisegna R, Boiocchi M, Caligo MA, Chieco-Bianchi L, Cipollini G, Crucianelli R, D'Amico C, Federico M, Ghimenti C, De Giacomo C, De Nicolo A, Della Puppa L, Ferrari S, Ficorella C, Iandolo D, Manoukian S, Marchetti P, Marroni F, Menin C, Montagna M, Ottini L, Pensotti V, Pierotti M, Radice P, Santarosa M, Silingardi V, Turchetti D, Bevilacqua G, Presciuttini S: **Different Expressivity of BRCA1 and BRCA2: Analysis of 179 Italian Pedigrees with Identified Mutation.** *Breast Cancer Research and Treatment* 2003, 81: 71-79.
  44. Cadetti L., Marroni F., Marangoni R., Kuhlmann H.-W., Gioffre D., Colombetti

	G.: <b>Phototaxis in the ciliated protozoan <i>Ophryoglena flava</i>: dose-effect curves and action spectrum determination.</b> <i>J. Photochem. Photobiol. B: Biol.</i> 57(2000), 41-50.
<b>Review papers</b>	<p>45. Marroni F, Pinosio S, Morgante M. <b>Structural variation and genome complexity: is dispensable really dispensable?</b> <i>Curr Opin Plant Biol.</i> 18 (2014), 31-36.</p> <p>46. Marroni F, Pinosio S, Morgante M. <b>The Quest for Rare Variants: Pooled Multiplexed Next Generation Sequencing in Plants.</b> <i>Front Plant Sci.</i> 2012;3:133. Epub 2012 Jun 28.</p>
<b>Peer-reviewed conference proceedings</b>	<p>Marroni F, Toni C, Pennato B, Tsai YY, Duggal P, Bailey-Wilson JE, Presciuttini S: <b>Haplotypic Structure of the X-Chromosome in the COGA Population Sample and the Quality of its Reconstruction by Extant Software Packages.</b> <i>BMC Genetics</i> 2005, 6 (Suppl 1):S77.</p> <p>Fosella X, Marroni F, Manzoni S, Verzeletti A, De Ferrari F, Cerri N, Presciuttini S: <b>Assigning individuals to ethnic groups based on 13 STR loci.</b> <i>Proceedings of the 20th International ISFG Congress, Arcachon, France, 9-13 September 2003, International Congress Series 1261 (2004)</i> 59-61.</p> <p>Presciuttini S, Toni C, Marroni F, Spinetti I, Bailey-Wilson JE, Domenici R: <b>The number of STR markers necessary to resolve relationships in deficiency paternity cases.</b> <i>Proceedings of the 20th International ISFG Congress, Arcachon, France, 9-13 September 2003, International Congress Series 1261 (2004)</i> 541-543.</p>
<b>Visiting Scientist</b>	<p>October 2003: Johns Hopkins University, Department of Biostatistics, Baltimore, MD, USA (prof. Giovanni Parmigiani)</p> <p>October 2004: NHGRI/NIH, Inherited Diseases Research Branch, Baltimore, MD, USA (Dr. Joan Bailey-Wilson)</p> <p>June 2006: Medical Research Council, Human Genetics Unit, Western General Hospital, Edinburgh, Scotland, UK (Dr. Veronique Vitart)</p> <p>19<sup>th</sup> August - 8<sup>th</sup> September 2014: INTA, Hurlingham, Buenos Aires, Argentina. Visiting researcher in the framework of the project DEANN (Grant Agreement number: PIRSES-GA-2013-612583). Reference: Norma Paniego</p> <p>17<sup>th</sup> August - 7<sup>th</sup> September 2015: Langebio/CINVESTAV, Irapuato Mexico. Visiting researcher in the framework of the project DEANN (Grant Agreement number: PIRSES-GA-2013-612583). Reference: Rafael Montiel</p> <p>15<sup>th</sup> August - 23<sup>th</sup> September 2016: University of Florida, Gainesville, FL, USA. Visiting researcher in the framework of the project DEANN (Grant Agreement number: PIRSES-GA-2013-612583). Reference: Lauren McIntyre</p>
<b>Workshops/Conferences Organization</b>	<p><b>2016</b> Member of the organising committee of the bioinformatics course: "Bioinformatica per tutto, bioinformatica per tutti" on behalf of the Società Italiana di Genetica Agraria (Italian Society of Agriculture Genetics), and teacher in the same course, held in Udine 28<sup>th</sup> June - 1<sup>st</sup> July 2016</p> <p><b>2015</b> In the framework of the EU-funded DEANN project, member of the organizing committee of the NGS Workshop "On top of genetics" 22-23 June, Udine, Italy (<a href="http://bioinfo.cipf.es/deann/?tribe_events=epigen-ngs-workshop">http://bioinfo.cipf.es/deann/?tribe_events=epigen-ngs-workshop</a>)</p>
<b>Invited Talks/Lectures</b>	<p><b>2014</b> GRACious symposium on grape genetics, genomics and physiology (Sde Boqer, Israel, October 29-31, 2014)  Bioinformatica 3 (Pisa, October 20, 2014)  Genomics meets metabolomics (IGA, Udine, Italy, 05/10/2014)  Scuola Superiore Sant'Anna, Pisa (05/03/2014)</p> <p><b>2013</b> IGA Technology services (Watbio)  Università di Udine (Study day on Big Data)</p> <p><b>2012</b> METLA, Helsinki (Noveltree)  IGA Technology services (Course, Data Crunching: from hell to heaven)</p>

<b>Ad-hoc Reviewer</b>	BMC Genetics, BMC genomics, Journal of Genetics, PLoS One, Molecular Ecology, European Journal of Human Genetics, Human Mutation, Journal of Medical Genetics, Tree Genetics and Genomes, Journal of the American Society for Horticultural Science, Clinical Genetics, Human Molecular Genetics, Human Biology, Journal of Experimental Botany, Molecular Biology Reports, Plant Science, Plant Genetic Resources, Scientific Reports
<b>Grant Reviewer</b>	Czech Science Foundation, National Research Foundation of South Africa
<b>Awards</b>	New Phytologist Trust travel grant: 26 <sup>th</sup> New Phytologist Symposium “Bioenergy trees”.
<b>Popular science</b>	Marroni F: <b>La misura dell’isolamento</b> . Academia N.42 (EURAC’s quarterly science magazine), December 2006. Marroni F: <b>Viaggi genetici? No grazie</b> . Academia N.45 (EURAC’s quarterly science magazine), December 2007.
<b>Professional Skills</b>	Experience with statistical methods for linkage and association mapping of quantitative and qualitative traits. Experience in population genetics: population differentiation, LD structure, mutation dating, haplotype inference, phylogeny. Experience in statistical and bioinformatics analysis of Next Generation Sequencing data
<b>Laboratory Skills</b>	Electrophoresis, DNA/RNA extraction, PCR, Sanger sequencing, library preparation for next generation sequencing.
<b>Programming Skills</b>	R, shell scripting.
<b>Research Interests</b>	Applications of Next Generation Sequencing Study of gene expression using RNAseq Identification of Rare Variants via “Next Generation Ecotilling” Identification of structural variants Genomics Population genetics Linkage and association mapping of quantitative and qualitative traits Genetic Epidemiology Biodemography
<b>Interests and hobbies</b>	Actor in several non-professional acting companies. Writer of several short stories and poems (in Italian). Founding member of Kaleidoscienza, a not for profit association for the advancement and public understanding of science.