

Curriculum Vitae

Personal information

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Teaching

- 2008** Seminar series (two lessons) on Hardy-Weingberg equilibrium for undergraduate students. Course "Genetic Resources in Agriculture" (on behalf of Raffaele Testolin).
- 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.
- 2012** Seminar series (two lessons) on RNAseq for undergraduate students. Course "Genome analysis and Bioinformatics" (on behalf of Michele Morgante).
- 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
- 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)
- 2015** Seminar series (three lessons) on analysis of NGS data 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)
- 2016** Seminar series (two lessons) on analysis of NGS data for undergraduate students. Course "Genome analysis and Bioinformatics" (on behalf of Michele Morgante).

Employment history

December, 21st 2012 - Present

Occupation or position held
Main activities and

Assistant Professor (Fixed term, L. 240/10)
Analysis of genomic data, coordination of PhD students and Post-Docs

responsibilities	
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, IDR8, 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
Mentoring	Co-supervisor (together with Prof. Michele Morgante) of the PhD projects "Building Catalogues of Genetic Variation in Poplar" (PhD candidate, Sara Pinosio, 2012), and "Characterisation of the pan-genome of <i>Vitis vinifera</i> using Next Generation Sequencing" (PhD candidate Gabriele Magris, 2014).
Education and training	
2005: PhD	Experimental and Molecular Oncology
Thesis	La predizione dello stato di portatore di mutazioni germinali in <i>BRCA1</i> e <i>BRCA2</i> - Valutazione dei modelli esistenti, stima delle penetranze, ed elaborazione di un modello adattato alle popolazioni italiane (Predicting carrier status for mutations in <i>BRCA1</i> and <i>BRCA2</i> - 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	Biology (110/110 <i>cum laude</i>)
Thesis	Risposta e fotorisposta di <i>Ophryoglena flava</i> a radiazioni ultraviolette (Response and Photoresponse of <i>Ophryoglena flava</i> 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

1. 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
2. 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.
3. 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
4. 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.
5. 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.
6. 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.
7. 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
8. 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
9. 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.
 10. Schiavi F, Demattè S, Cecchini ME, Taschin E, Bobisse S, Del Piano A, Donner D, Barbareschi M, Manera V, Zovato S, Eric 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.
 11. 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.
 12. 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.
 13. 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.
 14. 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.
 15. 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.
 16. Teslovich TM *et al*. **Biological, clinical and population relevance of 95 loci for blood lipids**. *Nature*, **2010** Aug 5;466(7307):707-13.
 17. 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.
 18. Pichler I, Fuchsberger C, Platzer C, Caliskan 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.
 19. 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.
 20. 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.
 21. Hicks AA *et al*. **Genetic determinants of circulating sphingolipid concentrations in European populations**. *PLoS Genet*. 2009 Oct;5(10):e1000672.
 22. 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.
 23. Marroni F, Pfeufer A, Aulchenko YS, Franklin CS, Isaacs A, Pichler I, Wild SH, Oostra BA, Wright AF, Campbell H, Witteman JC, Käbb 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.
 24. 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.
25. Pfeufer A, Sanna S, Arking DE, Müller M, Gateva V, Fuchsberger C, Ehret GB, Orrù 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, Mühleisen 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, Käb 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.
 26. 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.
 27. 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.
 28. 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.
 29. 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.
 30. 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.
 31. 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.
 32. 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.
 33. 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.

34. 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.
 35. 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.
 36. 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.
 37. 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.
 38. 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.
 39. 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.
 40. 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.
 41. 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.
 42. Cadetti L., Marroni F., Marangoni R., Kuhlmann H.-W., Giofrè D., Colombetti G.: **Phototaxis in the ciliated protozoan Ophryoglena flava: dose-effect curves and action spectrum determination.** *J. Photochem. Photobiol. B: Biol.* **57(2000)**, 41-50.
- Review papers**
43. Marroni F, Pinosio S, Morgante M. **Structural variation and genome complexity: is dispensable really dispensable?** *Curr Opin Plant Biol.* **18 (2014)**, 31-36.
 44. Marroni F, Pinosio S, Morgante M. **The Quest for Rare Variants: Pooled Multiplexed Next Generation Sequencing in Plants.** *Front Plant Sci.* **2012**;3:133. Epub 2012 Jun 28.

Peer-reviewed conference proceedings

- Marroni F, Toni C, Pennato B, Tsai YY, Duggal P, Bailey-Wilson JE, Presciuttini S: **Haplotypic Structure of the X-Chromosome in the COGA Population Sample and the Quality of its Reconstruction by Extant Software Packages.** *BMC Genetics* **2005**, 6 (Suppl 1):S77.
- Fosella X, Marroni F, Manzoni S, Verzeletti A, De Ferrari F, Cerri N, Presciuttini S: **Assigning individuals to ethnic groups based on 13 STR loci.** *Proceedings of the 20th International ISFG Congress, Arcachon, France, 9-13 September 2003, International Congress Series* **1261 (2004)** 59-61.
- Presciuttini S, Toni C, Marroni F, Spinetti I, Bailey-Wilson JE, Domenici R: **The number of STR markers necessary to resolve relationships in deficiency**

paternity cases. *Proceedings of the 20th International ISFG Congress, Arcachon, France, 9-13 September 2003, International Congress Series 1261 (2004) 541-543.*

Visiting Scientist October 2003: Johns Hopkins University, Department of Biostatistics, Baltimore, MD, USA (prof. Giovanni Parmigiani)
October 2004: NHGRI/NIH, Inherited Diseases Research Branch, Baltimore, MD, USA (Dr. Joan Bailey-Wilson)
June 2006: Medical Research Council, Human Genetics Unit, Western General Hospital, Edinburgh, Scotland, UK (Dr. Veronique Vitart)
19th August - 8th 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 Paniago
17th August - 7th 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
15th August - 23th 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

Workshops/Conferences Organization

2016 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 28th June - 1st July 2016

2015 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 (http://bioinfo.cipf.es/deann/?tribe_events=epigen-ngs-workshop)

Invited Talks/Lectures

2014 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)

2013 IGA Technology services (Watbio)
Università di Udine (Study day on Big Data)

2012 METLA, Helsinki (Noveltree)
IGA Technology services (Course, Data Crunching: from hell to heaven)

Ad-hoc Reviewer 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

Grant Reviewer Awards Czech Science Foundation, National Research Foundation of South Africa
New Phytologist Trust travel grant: 26th New Phytologist Symposium "Bioenergy trees".

Popular science Marroni F: **La misura dell'isolamento.** *Academia N.42* (EURAC's quarterly science magazine), December 2006.
Marroni F: **Viaggi genetici? No grazie.** *Academia N.45* (EURAC's quarterly science magazine), December 2007.

Professional Skills 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

Laboratory Skills Electrophoresis, DNA/RNA extraction, PCR, Sanger sequencing, library preparation for next generation sequencing.

Programming Skills R, shell scripting.

Research Interests

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

Interests and Hobbies

Actor in several non-professional acting companies, performing, among others, in Macbeth (W. Shakespeare), The Emperor's New Clothes (H.C. Andersen), Carmina Vini (U. Chiti), The Sisters-in-Law (M. Tremblay), A midsummer's night dream (W. Shakespeare).
Writer of several short stories and poems (in Italian).
Author of the storyboard of a short videoclip (5 min), “Pena la morte” realized with the contribution of the Municipality of Barga (Lucca, Italy) in the attempt to open a public discussion on Death Row.
Founding member of Kaleidoscienza, a not for profit association for the advancement and public understanding of science.