

Fabio Marroni



Topics I love:
Genetics
Bioinformatics
(Meta)Genomics
Statistical Genetics



Personal information

Work address University of Udine, via delle Scienze 206, 33100 Udine, Italy
Telephone +39 0432 558609
E-mail fabio.marroni@uniud.it; marroni@appliedgenomics.org

Employment history

April, 4th 2022 – Present Occupation or position held Name and address of employer	Associate Professor, Genetics (BIO/18, 05/I1) University of Udine, Via Palladio 8, 33100 Udine, Italy
April, 2nd 2019 – April, 2nd 2022 Occupation or position held Main activities and responsibilities Name and address of employer	Assistant Professor B (Fixed term, L. 240/10) Bioinformatics analysis of genomic data University of Udine, Via Palladio 8, 33100 Udine, Italy
December, 21st 2017 – April, 1st 2019 Occupation or position held Main activities and responsibilities Name and address of employer	Bioinformatics Operations Manager Coordination of Bioinformatics activities IGA Technology Services s.r.l., Via J. Linussio 51, 33100 Udine, Italy
December, 21st 2012 – December, 20th 2017 Occupation or position held Main activities and responsibilities Name and address of employer	Assistant Professor A (Fixed term, L. 240/10) Analysis of genomic data, coordination of PhD students and Post-Docs University of Udine, Via Palladio 8, 33100 Udine, Italy
August 2012 – December 2012 Occupation or position held Main activities and responsibilities Name and address of employer	Research collaborator Bioinformatic data analysis IGA Technology Services S.r.l., Via Linussio 51, 33100 Z.I.U. Udine, Italy
August 2008 – August 2012 Occupation or position held Main activities and responsibilities Name and address of employer	Lab assistant with research duties Collaboration to the research project ENERGYPOPLAR 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
“Abilitazione”	For the purposes of the Italian law, I hold the “abilitazione” for full professor in genetics (Genetica, 05/I1) and agricultural genetics (Chimica Agraria, Genetica Agraria e Pedologia, 07/E1), valid until 2034
Teaching	
2023-2024	Teacher of Genetics for second year undergraduate students in Environmental and Natural Sciences, University of Udine. Teacher of Genetics for first year undergraduate students in Biotechnology, University of Udine.
2021-2023	Teacher of Genetics for first year undergraduate students in Environmental and Natural Sciences, University of Udine (Biologia). Teacher of Bioinformatics (practical sessions) for undergraduate students in Biotechnology, University of Udine (Genetica Speciale e Bioinformatica)
2021	Teacher in the course “Trascrittoma: dal disegno sperimentale all'interpretazione biologica del dato”, organised by the Italian Society for Agricultural Genetics (SIGA).
2020-2021	Teacher of Genetics for first year undergraduate students in Environmental and Natural Sciences, University of Udine (Biologia – AG028).
2020	Teacher of Applied Bioinformatics for undergraduate students of the School for Advanced studies of the University of Udine (SUP0302).
2020	Seminar series (two lessons) in Coffee Genetics – Master in Coffee Economics and Science “Ernesto Illy” (Trieste, Italy, 6 th and 11 th February)
2019	Seminar series (three lessons) in Coffee Genetics – Master in Coffee Economics and Science “Ernesto Illy” (Trieste, Italy, 16 th , 23 rd , and 30 th January)
2018	Seminar series (three lessons) in Coffee Genetics – Master in Coffee Economics and Science “Ernesto Illy” (Trieste, Italy, 17 th and 25 th January)
2017	Seminar “Mapping the Molecular phenotype: eQTL and sQTL analysis”, in the seminar series Frontiers in Biotechnology, held at Scuola Superiore Sant'Anna, Pisa, Italy, 29 th November. 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 “Ernesto Illy” (Trieste, Italy, 2 nd , 3 rd and 5 th 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 (16 hours) in NGS analysis of structural variants in the Course PON Ricerca e Competitività (PONa3_00134/F5) (November 20 th and 21 st CRA, Turi, Italy) Teacher of the short course “Introduction to Genomics” in the framework of the

- 2013** project: "MODULI FORMATIVI DALLA SCUOLA ALL'UNIVERSITA'" (Three lessons) 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).

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

Citation Indices

Web of Science: Total citations **6787**, H-index **30**

Google Scholar: Total citations **9945**, H-index **33**

Scopus: Total citations **8121**, H-index **32**

Selected Publications

1. Frizzera D, et al. **Assessing lethal and sublethal effects of pesticides on honey bees in a multifactorial context**, *Sci Tot Env*, **2024**, 948, 174892.
2. Zamparo S, et al. **Novel insights on microbiome dynamics during a gill disease outbreak in farmed rainbow trout (*Oncorhynchus mykiss*)**, *Sci Reports*, **2024**, 14(1),17791
3. Dulya O, et al. **A trait-based ecological perspective on the soil microbial antibiotic-related genetic machinery**, *Env International*, **2024**, 190, 108917
4. Rossi A, Marroni F, Renoldi N, Di Filippo G, Gover E, Marino M, Innocente N, **An integrated approach to explore the microbial biodiversity of natural milk cultures for cheesemaking**, *Journal of Dairy Science*, **2024**
5. Buoso S, Lodovici A, Salvatori N, Tomasi N, Arkoun M, Maillard A, Marroni F, Alberti G, Peressotti A, Pinton R, Zanin L, **Nitrogen nutrition and xylem sap composition in *Zea mays*: effect of urea, ammonium and nitrate on ionic and metabolic profiles**, *Plant Science*, **2023**, 336, 111825.
6. Zanni V, Frizzera D, Marroni F, Seffin E, Annoscia D, Nazzi F, **Age-related response to mite parasitization and viral infection in the honey bee suggests a trade-off between growth and immunity**, *PloS One*, **2023**, 18(7), e0288821
7. Savian F, Marroni F, Ermacora P, Firrao G, Martini M, **A metabarcoding approach to investigate fungal and oomycete communities associated with kiwifruit vine decline syndrome in Italy**, *Phytobiomes Journal*, **2022**, 6(4), 290-304
8. Sillo F, Brunetti C, Marroni F, Vita F, dos Santos Nascimento LB, Vizzini A, Mello A, Balestrini R, **Systemic effects of *Tuber melanosporum* inoculation in two *Corylus avellana* genotypes**, *Tree Physiology*, **2022**, 42 (7), 1463-1480.
9. Paxton RJ, Schäfer MO, Nazzi F, Zanni V, Annoscia D, Marroni F, Bigot D, Laws-Quinn ER, Panziera D, Jenkins C, Shafiey H: **Epidemiology of a major honey bee pathogen, deformed wing virus: potential worldwide replacement of genotype A by genotype B**. *International Journal for Parasitology: Parasites and Wildlife* **2022**, 18, 157-171
10. Magris G, Marroni F, D'Agaro E, Vischi M, Chiabà C, Scaglione D, Kijas J, Messina M, Tibaldi E, Morgante M: **ddRAD-seq reveals the genetic structure and detects signals of selection in Italian brown trout**. *Genetics Selection Evolution*. **2022**. 54(1), 1-14
11. Di Gaspero G, Radovic S, De Luca E, Spadotto A, Magris G, Falginella L, Cattonaro F, Marroni F: **Evaluation of sensitivity and specificity in RNA-Seq-based detection of grapevine viral pathogens**. *Journal of Virological Methods*. **2022**. 300 114383.
12. Magris *et al.*, **The genomes of 204 *Vitis vinifera* accessions reveal the origin of European wine grapes**. *Nature communications*. **2021**. 12(1), 1-12.
13. Sherbina K, León-Novelo LG, Nuzhdin SV, McIntyre LM, Marroni F: **Power calculator for detecting allelic imbalance using hierarchical Bayesian model**. *BMC research notes*. **2021**. 14(1) 1-18.
14. Buoso S, Tomasi N, Arkoun M, Maillard A, Jing L, Marroni F, Pluchon S, Pinton R, Zanin L: **Transcriptomic and metabolomic profiles of *Zea mays* fed with urea and ammonium**. *Physiologia plantarum*. **2021**. 173(3) 935-953.
15. Miller BR, Morse AM, Borgert JE, Liu Z, Sinclair K, Gamble G, Zou F, Newman JRB, León-Novelo LG, Marroni F, McIntyre LM: **Testcrosses are an efficient strategy for identifying cis-regulatory variation: Bayesian analysis of allele-specific expression (BayesASE)**. *G3*. **2021**. 11 (5) jkab096.
16. Valadares R, Marroni F, Sillo F, Oliveira RRM, Balestrini R, Perotto S: **A Transcriptomic Approach Provides Insights on the Mycorrhizal Symbiosis of the Mediterranean Orchid *Limodorum abortivum* in Nature**. *Plants* **2021**. 10(2), 251.
17. Misson G, Mainardis M, Marroni F, Peressotti A, Goi D: **Environmental methane emissions from seagrass wrack and evaluation of salinity effect on microbial community composition**. *Journal of Cleaner Production*. **2020** 12546

18. Ciani E, *et al.* **On the origin of European sheep as revealed by the diversity of the Balkan breeds and by optimizing population-genetic analysis tools.** *Genetics Selection Evolution.* **2020** 52, 1-14.
19. Pinosio S, Marroni F, Zuccolo A, Vitulo N, Mariette S, Sonnante G, Aravanopoulos FA, Ganopoulos I, Palasciano M, Vidotto M, Magris G, Iezzoni A, Vendramin GG, Morgante M. **A draft genome of sweet cherry (*Prunus avium* L.) reveals genome-wide and local effects of domestication.** *The Plant Journal.* **2020.** 103 (4), 1420-1432
20. Marino M, Dubsky de Wittenau G, Saccà E, Cattonaro F, Spadotto A, Innocente N, Radovic S, Piasentier E, Marroni F. **Metagenomic profiles of different types of Italian high-moisture Mozzarella cheese.** *Food microbiology* **2019** 79:123-131.
21. Leon-Novelo L, Gerken AR, Graze RM, McIntyre LM, Marroni F. **Direct Testing for Allele-Specific Expression Differences Between Conditions.** *G3: Genes, Genomes, Genetics* **2017** doi: 10.1534/g3.117.300139
22. 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.
23. International Peach Genome Initiative, **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.
24. 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
25. 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.
26. 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.
27. Teslovich TM *et al.* **Biological, clinical and population relevance of 95 loci for blood lipids.** *Nature,* **2010** Aug 5;466(7307):707-13.
28. Pichler I, Fuchsberger C, Platzer C, Caliřkan 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.
29. 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.
30. Hicks AA *et al.* **Genetic determinants of circulating sphingolipid concentrations in European populations.** *PLoS Genet.* 2009 Oct;5(10):e1000672.
31. Marroni F, Pfeufer A, Aulchenko YS, Franklin CS, Isaacs A, Pichler I, Wild SH, Oostra BA, Wright AF, Campbell H, Witteman JC, Kääb 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.
32. 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.
33. Johansson A, *et al.:* **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.
34. Aulchenko YS, *et al.* **Loci influencing lipid levels and coronary heart disease risk in 16 European population cohorts.** *Nat Genet.* **2009** Jan;41(1):47-55.
 35. 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.
 36. Marroni F, *et al.*: **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.
 37. Marroni F, *et al.*: **Evaluation of widely used models for predicting BRCA1 and BRCA2 mutations.** *Journal of Medical Genetics* **2004**;41(4):278-85.

Visiting Scientist

October 2004: Johns Hopkins University, Department of Biostatistics, Baltimore, MD, USA (prof. Giovanni Parmigiani)
 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 Paniego
 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
 21th August - 28th September 2017: University of Florida, Gainesville, FL, USA. Visiting researcher in the framework of the project DEANN (Grant Agreement number: PIRSES-GA-2013-612583). Reference: Matias Kirst
 19th November 2019 - 2nd February 2020: CSIRO St Lucia, Brisbane (Australia). Visiting researcher in the framework of the GenSal project. Reference: James Kijas

Research Projects

2022-2024	PRIN 2022 funding for the project "Telomere-to-telomere sequencing: the new era of Centromere and neocentromere eVolution (CenVolution)" (Role: Unit leader)
2022-2023	Artificial Intelligence: grant financed by the University of Udine (Role: participant)
2021-2026	SEEDFORCE: Using SEED banks to restore and reinFORCE the endangered native plants of Italy (LIFE20 NAT/IT/001468), financed by the European Union (Role: participant)
2019-2020	GenSal: Genomic analysis of brown trout (<i>Salmo trutta</i>), financed by University of Udine. (Role: Participant)
2014-2017	DEANN: Developing an European American NGS Network (PIRSSES-GA-2013-612583) (Role: Participant)
2012-2017	NOVABREED: Novel variation in plant breeding and the plant pan-genomes (ERC 294780) (Role: Participant)
2008-2012	ENERGYPOPLAR: Enhancing Poplar Traits for Energy Applications (FP7, grant 211917) (Role: Participant)
2005-2008	EUROSPAN: EUROpean special populations research Network: quantifying and harnessing genetic variation for gene discovery (FP6, Grant Number LSHG-CT-2006-018947) (Role: Participant)

Workshops/ Conferences Organization

2018	Scientific co-director of the bioinformatics courses "Data Crunching: from hell to heaven" (Udine, 25th-27th July 2018) and "Epigenetics: on the top of Genetics" (Udine, September 4th-7th). Scientific co-director of the ECM course: "Next Generation Diagnostics: la diagnostica ai tempi del sequenziamento di nuova generazione" held in Udine, June 22 nd 2018.
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 28 th June - 1 st 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)
Talks/Lectures	
2022	Winter School in Agricultural Chemistry (ACWS), February 14 th - 17 th Udine, Italy (online)
2018	BITS, meeting of the Italian Bioinformatics Society, June 27 th – 29 th Turin, Italy.
2014	GRAcious symposium on grape genetics, genomics and physiology (Sde Boqer, Israel, October 29-31, 2014) Bioinformatiha 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)
Editor/Reviewer	Editor for: Scientific Data, Frontiers in Plants Science (Technical Advances). Reviewer for: 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 Member of the Program Committee of ISBM 2018.
Grant Reviewer	European Commission, Malta Council for Science and Technology, Czech Science Foundation, National Research Foundation of South Africa, Regione Autonoma Sardegna
Awards	
2011	New Phytologist Trust travel grant: 26 th New Phytologist Symposium "Bioenergy trees".
2017	Recipient of the "Finanziamento delle attività base di ricerca" grant/award (3000 Euros)
2019-2020	Scaling up Genomics in Aquaculture, Short Mission Grant, University of Udine
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 Genome Wide Association Mapping, QTL mapping, eQTL mapping Metagenomics Identification of structural variants Genomics Population genetics Linkage and association mapping of quantitative and qualitative traits Genetic Epidemiology
Interests and hobbies	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.

Fabio Marroni