Curriculum vitae et studiorum

PERSONAL INFORMATION Valentina Fustaino

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- PEC: valentina.fustaino@postecert.it

Sex Female | Date of birth ██████████ | Nationality Italian

WORK EXPERIENCE

Nov 2013–Present	**PhD student at National Research Council (CNR)**
	Institute of Cell Biology and Neurobiology (IBCN), Dr Giovina Ruberti's lab, Monterotondo (Italy) and Institute for Systems Analysis and Computer Science (IASI), Dr Giovanni Felici's group, Rome (Italy), Rome (Italy)
	Main activities: Bioinformatics (microarray data analysis, systems biology, network analysis) and Cancer Biology (cell cultures, immunofluorescence, immunoblotting, and gene silencing)
Jun 2013–Oct 2013	Bioinformatician
	CNR - IBCN, Dr Giovina Ruberti's lab, Monterotondo (Italy)
	Main activities: Microarray data analysis, biological network analysis.
	Recipient of scholarship (Announcement N. IBCN B.S,O1/2O13.RM)
Jan 2013–Mar 2013	Lab Training
	Foro Italico University of Rome, Human Movement and Health Sciences Department, Endocrine Research Laboratory (Prof. Luigi Di Luigi's lab), Rome (Italy)
	Main activities: Immunoblotting, ELISA, maintenance of primary cell cultures.
Nov 2012–Dec 2012	Bioinformatics Training
	CNR - IASI, Dr Paola Paci's lab, Rome (Italy)
	Main activities: Network analysis; Cytoscape training.
Sep 2011–Oct 2012	Collaborator at Oliba srl
	Dr. Alessandro Monaco, Rome (Italy)
	Main activities: Development of scientific projects; elaboration of scientific website content (genetic tests); customer service.
	Business or sector Business activity support and technology transfer
Dec 2009–Oct 2011	Lab Training
	Sapienza University of Rome, Department of Cellular Biotechnologies and Hematology, Prof. Anna Guarini's Lab, Rome (Italy)
	Main activities: gene variant analysis and identification of specific genetic patterns related to the development of hematologic diseases by using high-throughput sequencing analysis.

Oct 2007 - Oct 2008
Lab Training

Catholic University of the Sacred Heart - Medical Genetics Institute - Prof. Fiorella Gurrieri's Lab, Rome (Italy)

Main activities: Gene mutational screening of autistic patients by direct sequencing.

Apr 2007–Jun 2007
Lab Training

Catholic University of the Sacred Heart - Hematology Department - Prof. Zini's Lab, Rome (Italy)

Main activities: Flow cytometry and FACS, microscopy, preparation of slides, and morphological diagnosis.

EDUCATION AND TRAINING

Nov 2013 - Present
PhD student - Genetics and Molecular Biology

Sapienza University of Rome, Department of Biology and Biotechnology "Charles Darwin", Rome (Italy)

Project Title: "Models of resistance to target cancer therapy. Bioinformatics approaches for the discovery of dysregulated cell signalling networks"

Recipient of IBCN-CNR and IASI-CNR scholarship.

Dec 2011–Dec 2012
2nd level Master degree - Bioinformatics: Biomedical and Pharmaceutical applications

Sapienza University of Rome, Rome (Italy)

Topic: Bioinformatics techniques for applications in pharmaceutical and biotech research lab.

Thesis title: "Network Analysis in Vitis vinifera".

Grade: 110/110 cum laude

Mar 2012–Oct 2012
Advanced studies course, Research Enhancement & Development (RED)

Sapienza University of Rome, Rome (Italy)

Topics: Innovation management and entrepreneurship; intellettual property management; business modeling for innovation, business planning; business funding and financing.

Jan 2009–Oct 2011
Master's degree - Medical, Molecular and Cellular Biotechnology

Sapienza University of Rome, Rome (Italy)

Thesis title: "Genetic patterns of ATM gene in Chronic Lymphocytic Leukemia (CLL) patients"

Grade: 110/110 cum laude

Oct 2005–Oct 2008
Bachelor's degree - Health-care Biotechnology

Catholic University of Sacred Heart of Rome, Rome (Italy)

Thesis title: "Mutational Screening of Autism candidate Doc2B gene".

Grade: 108/110 cum laude

PERSONAL SKILLS

Mother tongue(s)   Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

English

B2	C1	B2	B2	B2

PET - Preliminary English Test

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Proficient user	Proficient user

Digital competences - Self-assessment grid

European Computer Driving Licence (ECDL)

Operating Systems - Mac OSX, Windows, Linux.

Softwares - Microsoft Office package (Word, Power Point, Excel, Access), Open Office, iWork (Keynote, Pages, Numbers).

Professional Applications - R/Bioconductor, Prism, Cityscape, cellSens, ImageJ, PathVisio, Gene Codes Sequencher, Sequencing Analysis, Swiss-pdb Viewer, PyMol, Molegro.

Programming languages: R (advanced level), Python (basic level), Perl (basic level).
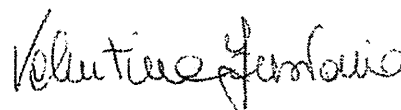
ADDITIONAL INFORMATION

Courses

19-22 Oct 2015, *Gene Expression profiling with HTS: RNA-Seq data analysis*, ELIXIr-Ita, CINECA, Rome (Italy);

5-7 Oct 2015, *High Throughput Sequencing data analysis*, Sapienza - University of Rome, Rome (Italy);

21-26 Jun 2015, 4th Sardinian Summer School *"From GWAS to function"*, Institute of Genetic and Biomedical Research of CNR, Technology Park of Sardinia, European School of Genetic Medicine, and University Residential Centre of Bertinoro, Pula (Italy);

Jun-Jul 2015, *Scientific English* (15 hours), Sapienza - University of Rome, Rome (Italy);

21 Sept-27 Sept 2014, Systems Biology and System Medicine: Precision Biotechnologies and Therapies *"How To Understand Complex Biological Functions"*, Lake Como Schools of Advanced Studies, Como (Italy);

4-6 Jun 2014, *Use of statistics in Biomedical Research*, CNR, AISAL, Fondazione Santa Lucia and C.E.R.C., Rome (Italy).

Conferences	**30 Nov 15** - *VI Biology and Molecular Medicine PhD Symposium*, Rome (Italy);
	23 Jan 15 - *V Biology and Molecular Medicine PhD Symposium*, Rome (Italy);
	26-28 Jun 14 - *IV EURO WG Conference on Operational Research in Computational Biology, Bioinformatics and Medicine*, Poznań – Biedrusko (Poland);
	26-28 Feb 14 - *Bioinformatics ITalian Society (BITS) Annual Meeting 2014*, Rome (Italy).

Publications	**Papers/Book chapters/Technical Reports:**
	- Presutti D, Santini S, Cardinali B, Papoff G, Lalli C, Samperna S, Fustaino V, Giannini G, Ruberti G."*MET Gene Amplification and MET Receptor Activation Are Not Sufficient to Predict Efficacy of Combined MET and EGFR Inhibitors in EGFR TKI-Resistant NSCLC Cells.*" PloS one 10.11 (2015): e0143333;
	- Weitschek E, Fiscon G, Fustaino V, Felici G, Bertolazzi P: *Clustering and Classification Techniques for Gene Expression Profiles Pattern Analysis.* in: Pattern Recognition in Computational Molecular Biology: Techniques and Approaches. Elloumi M, Zomaya AY eds., Wiley Series in Bioinformatics, Wiley, 2015;
	- Weitschek E, Fiscon G, Fustaino V, Felici G, Bertolazzi P: *Analysis of microarray and RNA-sequencing gene expression profiles through clustering and classification techniques*, IASI-CNR, R. 14-11, 12/2014;
	- Durastanti V, Monaco A, Caronti B, Cortese A, Fustaino V. et al. (2013) *Mitochondrial Genome Profile in Demyelinating Diseases.* J Neurol Neurophysiol 5:179. doi: 10.4172/2155-9562.1000179.

Oral Presentation:

- Fustaino V, Felici G and Ruberti G. *Integrated Analysis of DNA Copy Number and Gene Expression Data in Lung Cancer Models of Resistance to Targeted Therapy.* (2014) IV EURO WG Conference on Operational Research in Computational Biology, Bioinformatics and Medicine. Poznań – Biedrusko, Poland.

Poster Presentations:

- Fustaino V, Presutti D, Colombo T, Cardinali B, Papoff G, Brandi R, Bertolazzi P, Ruberti G. *Characterization of an EMT intermediate phenotype associated to resistance to EGFR inhibitors in non small cell lung cancer cell lines.* (2016) 12th SIBBM Seminar Frontiers in Molecular Biology, Naples, NA, Italy.

- Fustaino V, Colombo T, Cardinali B, Presutti D, Santini S, Papoff G, Lalli C, Giannini G, Brandi R, Arisi I, D'Onofrio M, Felici G and Ruberti G. (2015) *Integrated Analysis of Dna Copy Number and Gene Expression Data in Lung Cancer Models of Resistance to Targeted Therapy.* 4° Sardinian Summer School Course "FROM GWAS TO FUNCTION", Pula, CA, Italy;

- Fustaino V, Presutti D, Cardinali B, Colombo T, Papoff G, Santini S, Lalli C, Giannini G, Brandi R, Arisi I, D'Onofrio M, Felici G and Ruberti G. (2014) *Integrated Analysis of Dna Copy Number and Gene Expression Data in Lung Cancer Models of Resistance to Targeted Therapy.* Bioinformatics Italian Society (BITS) Annual Meeting 2014. Rome, RM, Italy.