



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Sara Biagiotti**
Address(es) Dept. Biomolecular Sciences, Urbino University
Via Saffi,2 61029 Urbino (PU) Italy
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E-mail sara.biagiotti@uniurb.it
Nationality Italian
Year of birth 1981
Gender Female



Work experience

April 2014- present **Post-doc fellowship**
Dept. Of Biomolecular Sciences, University of Urbino
Research project: Translational research in Ataxia Telangiectasia, biomolecular studies and new therapeutic strategies

March 2012 – February 2014 **Post-doc fellowship**
Dept. Of Biomolecular Sciences, University of Urbino
Research project: Translational research in Ataxia Telangiectasia, biomolecular studies and new therapeutic strategies

February 2010 – Jan. 2012 **Post-doc fellowship**
Dept. Of Biomolecular Sciences, University of Urbino
Research project: Translational research in Ataxia Telangiectasia, biomolecular studies and new therapeutic strategies

November.. 2006 – Feb. 2009 **Doctoral research**
Dept. Of Biomolecular Sciences, University of Urbino
Research project: Delivery of the immunosuppressant Tacrolimus through erythrocytes

November 2004 – Feb. 2006 **Undergraduate research**
Dept. Of Biomolecular Sciences, University of Urbino
Research project: Administration of Dexamethasone through autologous erythrocytes in IBD patients

Didactic qualifications

February 2013-present **Teaching assistant in Laboratory of Biomolecular Methodologies**
University of Urbino, Degree in Biology

February 2010 –present **Teaching assistant in Systematic Human Biochemistry**
University of Urbino, Degree in Biology

October 2012 **Co-advisor**
Dissertation: Expression, purification and characterization of the mini-ATM protein: new variant with clinical interest
Student Francesco Musmeci

October 2010 **Co-advisor**
Dissertation: Red blood cells as a delivery system for the immunosuppressant Cyclosporin A
Student: Filomena Porchia

October 2010 **Co-advisor**
 Dissertation: Red blood cells as a delivery system for the immunosuppressant Cyclosporin A
 Student: Filomena Porchia

Education and training

February 2010 **Ph.D. In Biochemistry and pharmacology**
 University of Urbino, Urbino, Italy
 Dissertation title: Delivery of the immunosuppressant Tacrolimus through erythrocytes
 Advisor: Prof. Luigia Rossi

June 2010 **Authorization for Biologist**
 University of Urbino

September 2009 **Training course**
 Nano- and bio-technologies for diagnostic and therapeutics
 University of Urbino, Campus Scientifico ex-Sogesta, Urbino 10-11th September 2009

July 2008 **Training course**
 The contribution of biotechnology in the development of new therapeutic strategies”
 University of Urbino, “La Vela” College, Urbino 7-8th July 2008

November 2007-june 2008 **Training course FSE [220 hours]**
 From the university to the enterprise: the research for business
 Univeristy of Urbino
 Funded by Provincia Pesaro-Urbino

December 2007 **Workshop**
 From the laboratory to clinical application: Production and marketing authorization of
 biotechnological drugs
 University of Urbino, Campus Scientifico ex-Sogesta, Urbino 14th december 2007

February 2006 **B.Sc. Cum laude in Biology**
 University of Urbino, Urbino, Italy
 Thesis title: Interleukin Determination of Dexamethasone plasmatic levels administered through
 erythrocytes in IBD patients
 Advisor: Prof. Luigia Rossi

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment
 European level (*)

English

French

| Understanding | | | | Speaking | | | | Writing | |
|---------------|------------------|---------|-----------------|--------------------|------------------|-------------------|------------------|---------|-----------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| B2 | Independent user | C1 | Proficient user | B1 | Independent user | B1 | Independent user | C1 | Proficient user |
| A2 | Basic user | A2 | Basic user | A1 | Basic user | A1 | Basic user | A1 | Basic user |

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences Good social and communication skills, good attitude to work in team acquired through the practice of team sports such as volleyball)

Organisational skills and competences Good ability to organize work acquired mainly in the daily lab practice

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|----------------------------------|--|
| Technical skills and competences | <p><u>Molecular biology</u>: cloning, transformation/transfection in prokaryotic/eukaryotic cells, screening and construction of gene libraries, expression and purification of recombinant proteins in prokaryotic and eukaryotic cells.</p> <p><u>Genomics</u>: HRM analysis for genotyping.</p> <p><u>Transcriptomics</u>: northern blotting, RNA protection assay, quantitative real-time PCR and microarray for analysis of gene expression.</p> <p><u>Proteomics</u>: electrophoresis of nucleic acids/proteins, western blotting, bi-dimensional electrophoresis, immuno-blotting, dot blot, ELISA.</p> <p><u>Metabolomics</u>: metabolite extraction and mass spectrometric techniques.</p> <p><u>Biochemistry</u>: cell cultures, chromatographic techniques, spectrophotometric/fluorimetric assays for enzyme activity and intermediate compounds.</p> <p><u>Biotechnology and engineering</u>: pharmacokinetic and drug monitoring, slow delivery of drugs through red blood cells; targeting of drugs to RES.</p> |
| Computer skills and competences | Good knowledge of MS office, Pubmed, Reference Manager, Ncbi, GEO, Reactome, GeneSifter, Bioedit, Perl-primer. |
| Artistic skills and competences | Piano |
| Driving licence | B driving licence |
| Additional information | <p><i>References names</i></p> <p>Magnani mauro, Ph.D. Full professor of biochemistry Dept. Biomolecular sciences University of Urbino Urbino (pu) Italy Phone: +39 0722 305211 e-mail: mauro.magnani@uniurb.it</p> <p>Rossi luigia, Ph.D. Associate professor of biochemistry Dept. Biomolecular sciences University of Urbino Urbino (pu) Italy Phone: +39 0722 305201 e-mail: luigia.rossi@uniurb.it</p> <p>Luciana Chessa, MD University La Sapienza, Rome, Hospital Agency S. Andrea Via di Grottarossa 1035, 00189 Rome, Italy Phone: +39 06 33774737; +39 3358384672/3805219090 e-mail: luciana.chessa@uniroma1.it</p> <p><i>Funding</i> Current: fanoateneo and Associazione Nazionale AT.</p> |
| Annexes | Lists of publications, patents and participation at international congress |

List of publications (*co-first author)

1. Michele Menotta, **Sara Biagiotti**, Mauro Magnani. Quantitative analysis of FK506 by AFM. Submitted.
2. **Biagiotti S**, Menotta M, Giacomini E, Radici L, Bianchi M, Bozzao C, Chessa L, Magnani M. Forward subtractive libraries containing genes transactivated by dexamethasone in ataxia-telangiectasia lymphoblastoid cells. Mol Cell Biochem. 2014 Mar 14. [Epub ahead of print]
3. Menotta M, **Biagiotti S***, Chessa L, Magnani M. Dexamethasone partially rescues ATM deficiency in Ataxia Telangiectasia by promoting a shortened ATM variant retaining kinase activity. J Biol Chem. 2012 Nov 30;287(49):41352-63.
4. **Biagiotti S**, Rossi L, Bianchi M, Giacomini E, Pierigè F, Serafini G, Conaldi PG, Magnani M. Immunophilin-loaded erythrocytes as a new delivery strategy for immunosuppressive drugs. J Control Release 2011; 154:306–313.
5. **Biagiotti S**, Paoletti MF, Fraternali A, Rossi L and Mauro Magnani. Drug delivery by red blood cells. IUBMB Life 2011; 63(8):621-633. Review.
6. Magnani M, Serafini S, Fraternali A, Antonelli A, **Biagiotti S**, Pierigè F, Sfara C and Rossi L. Red Blood Cell-based delivery of drugs and nanomaterials for therapeutic and diagnostic applications. In Encyclopedia of Nanoscience and Nanotechnology, 2011 Nalwa HS, American Scientific Publishers, volume 22 pp.309-354.
7. Pierigè F, De Marco C, Orlotti N, Dominici S, **Biagiotti S**, Serafini S, Zaffaroni N, Magnani M and Rossi L. Cytotoxic activity of 2-Fluro-Ara-AMP and 2-Fluro-Ara-AMP-loaded erythrocytes against human breast carcinoma cell lines. Int J Oncol. 2010 Jul;37(1):133-42.

List of patents

1. Magnani M, Rossi L, **Biagiotti S**, Bianchi M. "Drug delivery systems". Patent application GB0909754.4.

List of presentations at international congress

1. **Sara Biagiotti**, Michele Menotta, Marzia Bianchi, Luigia Rossi, Luciana Chessa and Mauro Magnani. Gene expression profiling of Dexamethasone treatment on Ataxia-Telangiectasia cells. Oral presentation. ATW2013, University of Birmingham, 28th-31st July 2013, Birmingham (UK).
2. Michele Menotta, **Sara Biagiotti**, Marzia Bianchi, Luciana Chessa and Mauro Magnani. Dexamethasone action in Ataxia-Telangiectasia: seeking the molecular mechanism of phenotype reversion. ATW2013, University of Birmingham, 28th-31st July 2013, Birmingham (UK).
3. Michele Menotta, **Sara Biagiotti**, Marzia Bianchi, Luigia Rossi, Laura Streppa and Mauro Magnani. Label-free quantification of Tacrolimus by Atomic Force Microscopy. CNBXI 27th-29th June 2012, Varese.
4. **Biagiotti S**, Menotta M, Bianchi M, Giacomini E, Crinelli R, Savio C, Rossi L, Chessa L, Magnani M "New applications for old drugs: molecular mechanism involved in glucocorticoid analogue action in the treatment of Ataxia Telangiectasia" 36th FEBS Congress "Biochemistry for Tomorrow's Medicine" Torino, 25-30 June 2011.
5. **Biagiotti S**, Menotta M, Giacomini E, Carloni E, Crinelli R, Bianchi M, Rossi L, Savio C, Chessa L, Magnani M "Molecular mechanism involved in glucocorticoid analogue action in Ataxia Telangiectasia: differentially expressed genes in AT cell lines in response to Dexamethasone" 55th National Meeting of the Italian Society of Biochemistry and Molecular Biology (SIB), University of Milan, 14th-17th September 2010.
6. Pierigè F, **Biagiotti S**, Serafini S, Ambrosi L, Menotta M, Giorgi L, Rossi L and Magnani M "Single walled carbon nanotubes for delivery of therapeutic molecules" 2nd International Nanobiotechnology Conference, Roma 7-9- luglio 2009.
7. **Biagiotti S**, Pierigè F, Bianchi M, Giacomini E, Serafini G, Rossi L and Magnani M "Delivery of the immunosuppressant Tacrolimus through erythrocytes: in vitro studies" 22a Riunione Nazionale "A. Castellani" dei Dottorandi in Discipline Biochimiche, Brallo di Pregola (PV) 9–12 Giugno 2009.
8. **Biagiotti S**, Giacomini E, Pierigè F, Bianchi M, Serafini G, Rossi L, Bertuzzi F and Magnani M "FKBP-12 loaded erythrocytes as a potential delivery system for the immunosuppressant Tacrolimus" X Congresso Nazionale di Biotecnologie, Perugia 17-19 settembre 2008.

Data 06/10/2014