Personal Information

ROBERTA BONAFEDE

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Date of Birth 25/10/1987 | **Nationality** Italian

Current Position

Research fellow, University of Verona, Italy

Education

2015-05-03	PhD thesis defence, University of Verona, Italy.
2015-05-01 to 2015-08-31	Research activity at the Exosomes Research Group, Department of Pathology, VU University Medical Center, Amsterdam, Netherlands. Supervisor: Prof. Michiel Pegtel
2013-01-01 to 2015-12-31	PhD student in Neuroscience, Dept. of Neurosciences, Biomedical and Movement Sciences, University of Verona, Italy. Research project: "Nanovesicles from mesenchymal stem cells: experimental assessment of an innovative therapeutic approach for ALS". Supervisor: Dr. Raffaella Mariotti.
2012-06-19	State exam to qualify as a biologist, University of Parma, Italy.
2012-02-23	Master Degree in Molecular Biology with full marks of 110/110 cum laude, University of Parma, Italy.
2011-02-01 to 2012-02-22	Internship for Master Degree thesis in the Cytogenetic and Molecular Genetic Laboratory, Dept. of Biomedical and Biotechnological Science, University of Brescia, Italy. Experimental thesis "Analysis of gene expression profile in fibroblasts of patients suffering from Huntington's disease and control subjects". Supervisor: Prof. Carlo Rossi, Dr. Eleonora Marchina. Diagnostic field: genetic tests for cystic fibrosis, chromosome Y microdeletions, Huntington's disease, Prader-Willi, Fragile X syndrome.
2009-10-27	Bachelor Degree in Biology with marks of 106/110.
2009-02-01 to 2009-10-25	Internship for Bachelor Degree thesis in the Environmental Mutagenesis and Human Genetics Laboratory, Dept. of Genetic, Biology of microorganisms, Anthropology, University of Parma, Italy. Thesis "Use of human cell line HL-60 for the study of a drug that induces breaks in DNA: Mylotarg". Supervisor: Prof. Anna Maria Buschini.
2007-07	High school technical degree in chemistry and biology with full marks of 100/100.

2005-06-01 to 2005-07-31 | Internship at Microbiological laboratory “Copan”, Brescia, Italy

Skills profile

Native Language: **Italian**

Foreign Language: **English**

Self-Assessment

Comprehension				Speaking				Writing	
Listening		Reading		Interaction		Production			
European Level *									
B1		B1		B1		B1		B1	

(*)Common European Framework of Reference for Languages

Relational and Organizational skills: Capability to conduct and organize external collaborations, ability to work in a group, interact with colleagues and ability to manage with a multicultural environment. Dedicated scientist with organizational, troubleshooting and problem-solving skills; flexible worker.

Technical Skills:

Cell biology:
Primary colture of stem cells.
Cell line culture and treatments.
Viability and cytotoxicity assay.
Comet assay.
Transient transfection.
Exosomes isolation and manipulation.

Molecular biology:
Nucleic acid extraction: genomic DNA, plasmid DNA, RNA.
Nucleic acid quantification and electrophoresis.
PCR and Real Time PCR.
Competent cell transformation.
Protein quantification, SDS-Page and Western blot.

Histology:
Cell and tissue histochemical staining and immunohistochemistry.
Optical and fluorescence microscopy.
Tissue cutting (cryostat and microtome).

Management, breeding and genotyping of laboratory animals (mice).

Computer skills: Good skills with Office suite, Pubmed database, ImageJ, Photoshop, Corel Draw, MatLab, SPSS and GraphPad Prism.

Driving License: Italian driver licence: category B vehicle

Partecipation to Congresses

2016.06	Exosomes in pathological conditions: new insights for biomarker development and therapeuric applications. AICC (Associazione Italiana Colture Cellulari), Roma, Italy. Oral and poster presentation: "Exosomes: a novel therapeutic approach for ALS?"
2015.11	25th congress of G.I.S.N. (Gruppo Italiano per lo Studio della Neuromorfologia), Roma, Italy. Oral presentation: "Exosomes: a novel therapeutic approach for ALS?"
2015.10	16th congress of S.I.N.S (Società Italiana di Neuroscienze), Cagliari. Oral presentation: "Exosomes from mesenchymal stem cells: experimental assessment on in vitro and in vivo models of ALS".
2015.02	National meeting of PhD Students in Neuroscience "New perspectives in Neuroscience: research results of young Italian neuroscientists", Naples, Italy. Poster presentation: Nanovesicles from mesenchymal stem cells: a neuroprotective effect in cells expressing different sod1 mutations that cause amyotrophic lateral sclerosis. *Bonafede R., Scambi I., Bonetti B., Mariotti R*
2014.11	24th congress of G.I.S.N. (Gruppo Italiano per lo Studio della Neuromorfologia), Bologna, Italy. Oral presentation: "Nanovesicles from mesenchymal stem cells: experimental assessment of an innovative therapeutic approach for ALS".
2014.11	27th Annual Conference of Italian Association of Cell Cultures (onlus AICC) oxidative stress and cell death: implications in chronic-degenerative processes and cancer, Verona, Italy. Poster: Nanovesicles from mesenchymal stem cells: experimental assessment of an innovative therapeutic approach for ALS *Bonafede R., Scambi I., Bonetti B., Mariotti R*
2014.07	9th FENS, Milan, Italy. Poster: Nanovesicles from mesenchymal stem cells: an innovative non-cell based therapeutic approach for ALS? *Bonafede R., Bonaconsa M ., Scambi I., Farinazzo A., Bonetti B., Mariotti R*
2014.05	FIRST 6th Meeting of the Forum of Italian Researchers on mesenchymal and Stromal Stem Cells, Milan, Italy. Poster: Nanovesicles from mesenchymal stem cells: experimental assessment of an innovative therapeutic approach for ALS. *Bonafede R., Scambi I., Farinazzo A., Turano E., Bonetti B., Mariotti*

Publications

Citrate-stabilized lanthanide-doped nanoparticles: brain penetration and interaction with immune cells and neurons. Portioli C, Pedroni M, Benati D, Donini M, **Bonafede R**, Mariotti R, Perbellini L, Cerpelloni M, Dusi S, Speghini A, Bentivoglio M.
Nanomedicine

Bonafede R, Busato A, Bontempi P, Scambi I, Schiaffino L, Benati D, Malatesta M, Sbarbati A, Marzola P, Mariotti R.
Magnetic resonance imaging of ultrasmall superparamagnetic iron oxide-labeled exosomes from stem cells: a new method to obtain labeled exosomes.
Int J Nanomedicine. 2016; 11:2481-90.

Bonafede R, Scambi I, Peroni D, Potrich V, Boschi F, Benati D, Bonetti B, Mariotti R.
Exosome derived from murine adipose-derived stromal cells: neuroprotective effect on in vitro model of amyotrophic lateral sclerosis.
Exp Cell Res. 2016;340:150-8.

Portioli C, Pedroni M, Benati D, Dusi S, Donini M, Mariotti R, **Bonafede R**, Perbellini L, Cerpelloni M, Speghini A, Bentivoglio M.
Lanthanide-doped CaF2 and SrF2 nanoparticles for biomedical applications: in vivo and in vitro experimental studies.
Italian Journal of anatomy and embryology. 2015;120,185.

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