



Curriculum Vitae Europas



## Personal Information

Busato Alice

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Female, 20/08/1986, Italian

## Education and Training

**2013- today** PhD student in **Multimodal Imaging in Biomedicine** at Department of Neurological and Movement Sciences, University of Verona.

**2010-12** Certificate of attendance at **European Master in Molecular Imaging (EMMI)**. EMMI CEA/INSTN/University Paris XI Sud (in collaboration with the following Universities to each lend their expertise for a given field):

Université Paris XI Sud, France (PET and Ultrasound)

Universiteit Antwerpen, Belgium (MRI and Laboratory Animal Science certified)

University of Crete, Greece (Optical Imaging)

University of Turin, Italy (Molecular Probes)

**2009-2012** Masters degree in **Molecular Biotechnology and Molecular Imaging** at Scuola Universitaria Interfacoltà per le Biotecnologie, University of Turin.

Title of the thesis: Development of a CEST MRI probe for characterization of kidney disease in a mouse model (supervisor Prof. Silvio Aime). Degree mark:100/110 publication recommended .  
Qualification: Molecular Biotechnologist.

**2005-2009** Bachelor's degree in **Environmental Toxicology**, Faculty of Pharmacy, University of Bologna.

Title of the thesis: In vitro neuronal cell model for environmental neurotoxins identification (supervisor Prof. Patrizia Hrelia). Degree mark:107/110. Qualification: Environmental Toxicologist.

**2000-2005** Scientific High School "Liceo scientifico statale Angelo Messedaglia", Verona (Italy).

## Work Experience

**2013- today** Activity research in Multiodal Imaging at the **Department of Neurological and Movement Sciences, University of Verona.**

Scholarship: **Verona nanomedicine Initiative, “Use of natural magnetic nanoparticles as Magnetic Resonance Imaging contrast agent”.**

**2009-2012** Internship (development of graduation thesis) at **Molecular Imaging Centre (CIM), at Molecular Biotechnology Centre, Torino.**

**2008-2009** Internship (development of graduation thesis) at **Laboratory of Cell Toxicology, Department of Pharmacology, University of Bologna.**

## Skills acquired

Skills acquired in different scientific disciplines, chemical and biological, aimed at description, measurement, explanation and prediction of the severity and frequency of adverse effects of environmental toxicants on living organisms.

Experimental skills in monitoring analytical, biochemical, microbiological, toxicological in drugs, food and environmental matrices.

Ability to acquire and explain critically the scientific literature for the purpose of assessing the risk to humans, associated with the presence of toxic substances in food and in the environment.

Experimental scientific expertise in the field of cell toxicology.

Knowledge of the structure, functions and analysis of biological macromolecules and cellular processes in which they are involved; knowledge in the use of the main methodologies that characterize molecular and cellular biotechnology.

Practical skill on Magnetic Resonance Imaging, Nuclear Magnetic Resonance and characterization / development of contrast agents for MRI.

Theoretical competence of the main techniques of molecular imaging such as MRI, NMR, PET, SPECT, optical imaging, and ultrasound techniques.

Practical and theoretical knowledge on main spectroscopic techniques such as UV spectroscopy, fluorescence spectroscopy, mass spectroscopy.

Skills in experimental molecular imaging, particularly MRI and NMR techniques.

Experience of working in vitro, in vivo (i.e: iv injection, perfusion, removal of organs) and histologic-histochemical analysis.

## Publications

D.Longo, A. Busato, S.Lanzardo, F.Antico, S. Aime. *Imaging the pH evolution of an acute kidney injury model by means of Iopamidol, a MRI-CEST pH-responsive contrast agent*. Magnetic Resonance in Medicine; 2013, 70:859–864.

## Languages

Mother tongue: Italian

Other language: English

<b>Listening</b>	<b>Reading</b>	<b>Speaking</b>	<b>Writing</b>
C1	C1	C1	C1

## Computer skills

Skills acquired in the main computer program: word, excel, power point

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 Giugno 2003, n.196  
“Codice in materia di protezione dei dati personali”.

Firma : Alice Busato