

Curriculum Vitae

August 2013

Personal information

First name(s) / Surname(s) **Alessia Mortari**
Address(es) 40 Via della Fontana, Casalino, Pergine Valsugana 38057 (TN)
Telephone(s) +39 0461 314 132 Mobile: +39 377 677 44 13
E-mail mortari@fbk.eu
Nationality Italian
Date of birth 18/05/1974
Gender Female

Desired employment / Occupational field **Research fellow**

Work experience

Dates **September 2012 – on ward**
Occupation or position held **Marie-Curie Fellow Researcher**
Main activities and responsibilities Experimental scientific research and project coordination
Name and address of employer FBK, Via Sommarive 18, Povo 38123 Trento, Italy
Type of business or sector Research

Dates **October 2008 - August 2012**
Occupation or position held **Parent full time**
Main activities and responsibilities In the last three years I have stayed at home to care for my two kids: Stella, born at the end of 2008 and Samuel, born at the end of 2010.
Name and address of employer n/a
Type of business or sector n/a

Dates **January 2009 - December 2011**
Occupation or position held **Treasurer and Management Committee Member** (volunteer position)
Main activities and responsibilities

- Book keeping and pay-role
- Financial reporting to management committee, membership and official governmental bodies
- Organisation and human resources management
- Grant writing and fund raising

Name and address of employer Network for Sustainable and Diversified Agriculture Inc.
PO Box 2530, Cairns, Queensland 4870 Australia
ph: +61 414 626 802
email: secretary@nsda.org.au
web site: www.nsda.org.au/
Type of business or sector NSDA was a community-based incorporated organisation. Its purpose was to coordinate, promote and advocate activities and information that could assist in the implementation of the principles of sustainable and diversified agriculture. NSDA is no longer in existence.

Dates **April 2007- November 2010**

Occupation or position held	Research and quality assurance and quality control (QA & QC) officer (full-time and casual employment)
Main activities and responsibilities	- Implement ongoing research and development projects on i) standard development for Near-Infrared Spectroscopy (NIR), ii) sugarcane juice clarification system using a continuous ion exchange process and iii) cane maturity model - Management and on-call service of an automated on-line automated Cane, Sugar and Bagasse Analysis System based on NIR, used for payment and process management of 20 sugar mills in Australia and internationally - Supervise and train colleagues
Name and address of employer	BSES Ltd Bruce Hwy, Meringa, Queensland 4870 Australia ph: +61 7 4056 4555 email: sstaunton@bses.com.au web site: www.bses.org.au
Type of business or sector	BSES Limited is the principal provider of research, development and extension to the Australian sugarcane industry.
Dates	June-October 2010
Occupation or position held	Research worker (casual employment)
Main activities and responsibilities	- Assist researchers in molecular biology work - Methods and protocols development for DNA extraction and polymerase chain reaction - Train and supervise honours student and colleague
Name and address of employer	Australian Tropical Herbarium, James Cook University E2 JCU McGregor Road, Smithfield, Queensland 4878 Australia
Type of business or sector	Research and reference, contributing to discovery, documentation and understanding of the flora of tropical Australia and neighbouring regions
Dates	December-March 2007
Occupation or position held	Technical officer (full time)
Main activities and responsibilities	- Microbiological food and environmental analysis - QA & QC
Name and address of employer	Department of Primary Industries & Fisheries 38-40 Tingira Street, PO Box 5396, Portsmith, Cairns, Queensland 4870 Australia ph: +61 7 4057 3700 web site: www.dpi.qld.gov.au/4791_12993.htm
Type of business or sector	Microbiology laboratory, National Association of Testing Authorities accredited
Dates	June-November 2006
Occupation or position held	Chemistry laboratory analyst (full time)
Main activities and responsibilities	- Routine analysis for QA & QC - Optimization of experimental methods
Name and address of employer	Mulgrave Central Mill Gordon Street, Gordonvale, Queensland 4865 Australia ph: +61 7 4043 3333 email: mcm@mulgravemill.com.au website: www.mulgravemill.com.au
Type of business or sector	Sugarcane mill

Education and training

Dates	2003-2008
Title of qualification awarded	Doctor of Philosophy in Chemistry with Specialization in Analytical Chemistry
Principal subjects/occupational	Thesis title: " <i>Protein-based capacitive biosensors for the detection of heavy metal ions</i> "

skills covered Empirical research that directly contributes to debates on electrochemical biosensors.

Name and type of organisation providing education and training Faculty of Science, Lund University (Sweden)

Level in national or international classification Third Level Degree comprised of 240 Higher Education Credits
ISCED 6

Dates **2008**

Title of qualification awarded **Understanding ISO/IEC 17025 Requirement**

Principal subjects/occupational skills covered International laboratory standard

Name and type of organisation providing education and training National Association of Testing Authorities (NATA)

Level in national or international classification n/a

Dates **2003**

Title of qualification awarded **Registered EU Pharmacist**

Principal subjects/occupational skills covered Intern-ship at Sant'Orsola-Malpighi Polyclinic University and public hospital

Name and type of organisation providing education and training University of Bologna, Italy

Level in national or international classification n/a

Dates **2002**

Title of qualification awarded **Bachelor in Chemistry and Pharmaceutical Technology**

Principal subjects/occupational skills covered Analytical Chemistry, Pharmacology, Pharmaceutical Chemistry, Pharmaceutical Industry, Pharmaceutical Legislation and Requirements, Food Chemistry and Toxicology.

Name and type of organisation providing education and training University of Bologna, Italy

Level in national or international classification ISCED 5

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s) **English**

Self-assessment <i>European level</i> (*)	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

(*) *Common European Framework of Reference for Languages*

Social skills and competences

- Communication skill: as an active member of various community-based organisations I have had the opportunity to implement my communication and listening skills to collectively achieve set goals.
- Inter-cultural competence: I have travelled in many countries and worked in multicultural environments, such as academia. I am friendly and happy to help and collaborate. During my PhD study experience, I was promoted to Young Researchers Coordinator of a EU project involving nine

partners and twice as many young researchers.

Organisational skills and competences

- Scientific method skill: as scientist I work and think methodically and in a organised fashion. Organisation to me is synonymous of clear reasoning, efficiency and effectiveness.
- Project management competence: I can effectively organise and coordinate complex long-term projects across a range of stakeholders. During my Ph.D. study I carried on research in multidisciplinary fields and in collaboration with different Universities in the EU as well as Australia.
- Accounting competence: I worked as treasurer in a community-based organisation, where I learned to manage the finances, book keeping, pay-role and liaison with the governmental agencies, such as fair trading and tax offices. As management committee member I also worked on human resources, project management and fund raising.
- Multitasking skill: especially in this time of my life, where I am a full-time mum, caring for my two kids (the oldest is three and the little one is one year old) and managing the house, I treasure my multitasking and planning skills. Every part of the day is planned ahead, filled in with activities and ready to be revised at any time. Although I must go with the general flow, being very well organised is my way to keep every thing ticking along.

Technical skills and competences

- Scientific technical skills: electrochemical methods (impedance spectroscopy, squarewave potential, cyclic voltammetry, bulk electrolysis and amperometry), scanning electron microscopy, microbiological analysis, spectroscopy techniques (UV-visible and NIR spectroscopy), biotechnology (surface functionalisation, biosensors), molecular biology (Polymerase Chain Reaction, protein and DNA extraction and purification) and statistical analysis. I acquired those skills during my Ph.D. studies, research and working experiences.
- Management of laboratory environments competence: I attended a training course on ISO/IEC 17025, whilst chemical inventory, laboratory safety and operation, QA & QC were acquired during work experiences.

Computer skills and competences

Proficient in web searching, SciFinder Scholar, most Microsoft Office programs, Origin, EndNote, ISIS/Draw, free wave OpenOffice, graphic program GIMP and some experience with LabView.

Other skills and competences

Media spokesperson: as community-based organisation activist and when opening my house for the Sustainable House Day initiative, I have been interviewed by radio, television and print media. During those experiences I have developed an understanding of media requirements along with the ability to effectively summarise sometimes complex concepts in a few distinct words.

Driving licence

Driving license category B

Additional information

Publications

Book

• A. Mortari "Protein-based capacitive biosensors for the detection of heavy-metal ions" ISBN: 978-91-7422-201-2, Department of Analytical Chemistry Publisher, Lund University, 2008.

Peer-reviewed articles

• I. Bontidean, J. Ahlqvist, A. Mortari, A. Mulchandani and E. Csöregi "Novel synthetic phytochelatin-based capacitive biosensor for heavy metal ion detection" *Biosensors & Bioelectronics* (2002) 18: 547-553.

• I. Bontidean, A. Mortari *et al.* "Biosensors for Detection of Mercury in Contaminated Soils" *Environmental Pollution* (2004) 131: 255-262.

• J. Castillo *et al.* "Biosensors for life quality. Design, development and application" *Sensors and Actuators B: Chemical* (2004) 102: 179-194.

• A. Mortari, A. Maaroo, D. Martin and M.B. Cortie "Mesoporous gold electrodes for measurement of electrolytic double layer capacitance" *Sensors and Actuators B: Chemical* (2007); 123:1, 262-268.

• M.B. Cortie, A.I. Maaroo, N. Stokes and A. Mortari "Mesoporous Gold Sponge" *Australian Journal of Chemistry* (2007) 60: 524-527.

• A. Mortari, N. Campos-Reales, G. Corda, S. A. Dorneanu, N. Brown and E. Csöregi "Protein based capacitive biosensors: a new tool for structure-activity relationship studies" *Electroanalysis* (2008) 20:24, 2677-2684.

Conference proceedings

• A. Mortari, N. Campos-Reales, N. Brown and E. Csöregi, Biomedical studies using protein-based heavy metal biosensors, "The Eighth World Congress on Biosensors" Granada, Spain, 24th-

26th May 2004, P1.3.16.

- M. Cortie, A. Mortari and A. Maarof, Applications of nano- and mesoporous gold in electrodes and electrochemical sensors, "2006 International Conference on Nanoscience and Nanotechnology" Brisbane, Qld, Australia, 3rd-7th July 2006, pp. 288-289.
- A. Mortari *et al.*, Applications of protein-based capacitive biosensors for the Detection of Heavy-Metal Ions, "2006 International Conference on Nanoscience and Nanotechnology" Brisbane, Qld, Australia, 3rd-7th July 2006, pp. 150-151.
- M. Cortie, A. Mortari, N. Stoke and E. van der Lingen Mesoporous gold: a material with multiple possibilities, "Gold 2006, New Industrial Applications For Gold" Limerick, Ireland, 3rd-6th September 2006.

References

L. Lorenzelli, Head of BioMEMS Research Unit, Center for Materials and Microsystems, FBK
Via Sommarive, 18 38123 Trento
Tel. +39 0461 314 455
Fax. +39 0461 302 040
e-mail: lorenzel@fbk.eu