

# Curriculum vitae

## Personal Information

First name / Surname	Diletta Castellani
Address	
Telephone	
E-mail	
Citizenship	Italian
Nationality	Italian
Date of birth	21 <sup>st</sup> November 1976
Marital status	
Gender	Female

My education and working experience encompass general biology, molecular biology, evolutionary and population genetic, zoology and mathematics. Thanks to the integration of these disciplines I have a strong scientific background and, in particular, due to the specific nature of my research projects I developed a solid experience in troubleshooting experimental procedures.

After almost 10 years spent as a molecular biology researcher, I decided to become a teacher and I discovered that teaching is very similar to research because for being a good teacher it is very important to constantly observe and analyse the results of my work with students.

*"Tristo è quel discepolo che non avanza il suo maestro"*  
(Leonardo Da Vinci)

## Education, Research and training

<b>Dates</b>	October 2014 - June 2015: Teacher Qualification for Mathematics and Biology at the Secondary School (Abilitazione all'insegnamento per la classe di concorso A028: Matematica e Scienze per la Scuola Secondaria di Primo Grado)
Level in national and international classification	88/100
Name and type of organization providing education and training	Department of Educational Human Sciences, Università degli Studi di Milano Bicocca, Piazza dell'Ateneo Nuovo 1, Milano 20126, Italy
<b>Dates</b>	October 2007 – October 2010: Research Assistant
Principal subjects and occupational skills covered	<p>Project title: "Novel detection assay for protease activity"</p> <p>Main subjects: Apoptosis and caspase activity</p> <ul style="list-style-type: none"><li>• Development of specific assays for Caspase-8 and Caspase-3</li><li>• Production of a mouse monoclonal antibody against Receptor Interacting Protein-1 (RIP-1; a caspase-8 substrate)</li><li>• Planning of the research activity of my PhD project, including timetable and the intermediate and long term objectives of the project</li></ul>

	<ul style="list-style-type: none"> <li>• Managing my research budget</li> <li>• Participating to the research group activity by giving talks and proposing discussions</li> <li>• Working in an industry setting</li> <li>• Preparing scientific reports and disseminating results using a range of different techniques (posters, oral presentations, manuscripts)</li> <li>• Supervising under-graduate students towards the completion of their final projects and thesis</li> </ul>
Name and type of organization providing education and training	Faculty of Health and Medical Sciences - Biochemistry Division, Molecular Toxicology Group, University of Surrey, Surrey GU2 7XH, United Kingdom (Prof. George E.N. Kass) Bio-discovery PerkinElmer 1744 William Street, Suite 600 Montreal H3J 1R4, Quebec, Canada (Nathalie Rouleau, R&D Section Leader) Funded by BBSRC and Perkin-Elmer
<b>Dates</b>	June 2004 – June 2007
Title of qualification awarded	Post-graduate training in evolutionary genetics Project title: "Assessment of adaptive genetic variability in natural population of marine mammals"
Principal subjects and occupational skills covered	Main subjects: Evolutionary and population genetics and biology <ul style="list-style-type: none"> <li>• Study of the evolution of functional gene systems in marine mammal species (including <i>Tursiops truncatus</i>, <i>Orcinus orca</i> and <i>Mirounga leonina</i>)</li> </ul>
Name and type of organization providing education and training	Department of Biological Sciences, Molecular Ecology Group, University of Durham, Durham DH1 3LE, United Kingdom Funded by Università degli Studi di Milano, Milano 20100, Italy
<b>Dates</b>	September 1995 – March 2003
Title of qualification awarded	Master of Science in Biology Thesis title: "A Sonic hedgehog-like signal is involved in slow muscle differentiation in the tentacle of <i>Sepia officinalis</i> "
Principal subjects and occupational skills covered	Main subjects: Developmental biology and zoology <ul style="list-style-type: none"> <li>• Study of muscle development in the tentacle of <i>Sepia officinalis</i>; in particular study of muscle regulatory factors (MRFs): MyoD, Myf5 and Shh</li> </ul>
Name and type of organization providing education and training	Facoltà di Scienze Biologiche, Università degli Studi dell'Insubria, Varese 21100, Italy (Prof. Madga de Eguileor)
Level in national and international classification	110/110 cum Laude
<b>Dates</b>	March 2000 – May 2000
Title of qualification awarded	Under-graduate training
Principal subjects and occupational skills covered	Main subjects: General biology, ecology and natural resources management; field-based training in Tarangire National Park (Tanzania)

Name and type of organization providing education and training	Oikos Institute (NGO), 20134 Milano, Italy
<b>Dates</b>	January 1999 – August 1999
Title of qualification awarded	Under-graduate training as Erasmus student
Principal subjects and occupational skills covered	Main subjects: Molecular biology and apoptosis <ul style="list-style-type: none"> <li>• Study of the modulation of the hepatic effects of paracetamol (acetaminophen) by the anti-apoptotic peptide z-VAD-fmk</li> </ul>
Name and type of organization providing education and training	Faculty of Health and Medical Sciences - Biochemistry Division, Molecular Toxicology Group, University of Surrey, Surrey GU2 7XH, United Kingdom Funded by European Commission (Erasmus programme)

### Work experience

<b>Dates</b>	December 2011 to Present
Occupation or position held	Maths and Biology teacher at secondary school (Classe di Concorso A028 – Matematica e Scienze Scuola Secondaria di 1° Grado)
Main activities and responsibilities	<ul style="list-style-type: none"> <li>• Teaching, assessing student progresses and marking</li> <li>• Managing the teaching team</li> <li>• Working together with the other maths teachers of the school</li> <li>• Planning regular meetings with parents</li> </ul>
Name and address of employers	<ul style="list-style-type: none"> <li>- Istituto Comprensivo "B. Luini", Viale Rimembranze 4, Luino 21016, Varese, Italy (academic year 2011/2012) Tel. +39 0332 531435, E-mail: vaic82100a@istruzione.it</li> <li>- Istituto Comprensivo "M. Longhi", Via Indipendenza, Baraggia di Viggiù, Varese, Italy (academic year 2012/2013) Tel. +39 0332 48 64 60, E-mail: vaic81900a@istruzione.it</li> <li>- Istituto Comprensivo "E. Curti", Via E. Curti 8 , Gemonio 21036, Varese, Italy (academic year 2012/2013) Tel. +39 0332 601 411, E-mail: vaic827009@istruzione.it</li> <li>- Istituto Comprensivo di Lavena Ponte Tresa, Via Pezzalunga 16, Lavena Ponte Tresa 21037, Varese, Italy (academic year 2013/2014) Tel. +39 0332 550 811, E-mail: VAIC82400T@istruzione.it</li> <li>- Istituto Comprensivo "Giovanni XXIII" , Via E. Scolari 1, Marchirolo 21030, Varese, Italy (academic year 2013/2014) Tel. +39 0332 99 71 31, E-mail: vaic822006@istruzione.it</li> </ul>

	<ul style="list-style-type: none"> <li>- Istituto Comprensivo di Germignaga, Via F. Filzi 21, Germignaga 21010, Varese, Italy (academic year 2014/2015) Tel. +39 0332 53 27 43, E-mail: vaic82000e@istruzione.it</li> <li>- Istituto Comprensivo "E.Curti", Via E. Curti 8 , Gemonio 21036, Varese, Italy (academic year 2015/2016) Tel. +39 0332 601 411, E-mail: vaic827009@istruzione.it</li> <li>- Istituto Comprensivo "E.Fermi", Via Molino diMezzo 30, Porto Ceresio 21050, Varese, Italy (academic year 2016/2017) Tel. +39 0332 917 182, E-mail: vaic82600d@istruzione.it</li> </ul>
Type of business or sector	Education
Dates	October 2004 – April 2010
Occupation or position held	Teaching assistant in practical classes
Main activities and responsibilities	<ul style="list-style-type: none"> <li>• Assisting under-graduate students during experiments</li> <li>• Assessing their performance</li> <li>• Marking their reports</li> </ul>
Name and address of employers	<p>Department of Biological Sciences, Molecular Ecology Group, University of Durham, South Road, Durham DH1 3LE, United Kingdom</p> <p>Faculty of Health and Medical Sciences - Biochemistry Division, Molecular Toxicology Group, University of Surrey, Surrey GU2 7XH, United Kingdom</p>
Type of business or sector	Academic
Dates	April 2004 – June 2004
Occupation or position held	Mats and Biology teacher at secondary school
Main activities and responsibilities	<ul style="list-style-type: none"> <li>• Teaching, assessing student progresses and marking</li> <li>• Working together with the other teachers of the team</li> <li>• Planning regular meetings with parents</li> </ul>
Name and address of employer	Istituto Comprensivo Giovanni XXIII, Via San Pietro, Marchirolo 21030, Varese, Italy
Type of business or sector	Education
Dates	April 2003 – September 2003

Occupation or position held	Member of the organisational committee of the 64° National Congress of the Italian Zoology Society
Main activities and responsibilities	<ul style="list-style-type: none"> <li>Managing the organizational team</li> <li>Managing the congress budget</li> <li>Organizing the congress programme (guest speakers, oral and poster presentations)</li> </ul>
Name and address of employer	Facoltà di Scienze Biologiche, Università degli Studi dell'Insubria, Via H. Dudant, Varese 21100, Italy
Type of business or sector	Academic
<b>Dates</b>	October 2001 – June 2002
Occupation or position held	Mats and biology teacher at secondary school
Main activities and responsibilities	<ul style="list-style-type: none"> <li>Teaching, assessing student progresses and marking</li> <li>Working together with the other teachers of the team</li> <li>Planning regular meetings with parents</li> </ul>
Name and address of employer	Scuola Media Statale "Nazario Sauro", Via Baracca 3, Malnate 21046, Varese, Italy
Type of business or sector	Education

### Personal skills and competences

Mother tongue	Italian																														
Other languages	English																														
Self-assessment (*)	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Spoken interaction</th><th colspan="2">Spoken production</th><th colspan="2"></th></tr><tr><td>C2</td><td>Proficient User</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C1</td><td>Proficient user</td><td>C 2</td><td>Proficient user</td></tr></table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				C2	Proficient User	C2	Proficient user	C2	Proficient user	C1	Proficient user	C 2	Proficient user
	Understanding				Speaking				Writing																						
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	<p>(*) Common European Framework of Reference for Languages <a href="http://europass.cedefop.europa.eu/LanguageSelfAssessmentGrid/en">http://europass.cedefop.europa.eu/LanguageSelfAssessmentGrid/en</a></p>																														
Professional skills and competences	<ul style="list-style-type: none"><li>• Certified Life Skills Level 1 Trainer (Regione Lombardia): <i>LifeSkills Training</i> (LST) is a research-validated substance abuse prevention programme proven to reduce the risks of alcohol, tobacco, drug abuse and violence by targeting the major social and psychological factors that promote the initiation of substance use and other risky behaviours. This comprehensive programme provides adolescents and young teens with the confidence and skills necessary to successfully handle challenging situations.</li></ul>																														
Social skills and competences	<ul style="list-style-type: none"><li>• Team work: from the beginning of my lab experience I have been working within teams and in particular, the time spent working at Perkin-Elmer R&amp;D Laboratory (Montreal, Canada) for the completion of my PhD project helped</li></ul>																														

	me to better understand the dynamics of industrial research.
Organizational skills and competences	<ul style="list-style-type: none"> <li>• Good communication skills: I have worked with people from different sectors, professional backgrounds and ages strengthening my ability to select appropriate techniques and styles to ensure effective involvement and understanding.</li> <li>• Planning: I have planned my research projects, set up short and long term objectives to monitor my progresses and designed the experiments since the beginning of my scientific activity;</li> <li>• Management: The supervision of under-graduate students during their final projects (planning experimental work, assessing results and assisting the writing up of their thesis) was a very satisfying experience because I proved to be a good team leader.</li> </ul>
Technical skills and competences	<p>I possess solid knowledge of a wide range of techniques</p> <ul style="list-style-type: none"> <li>• Optical and electron microscopy techniques</li> <li>• Immunocytochemical techniques</li> <li>• Cell culture techniques</li> <li>• Molecular biology techniques: Nucleic acid extraction/purification, Transfection, PCR, RT-PCR, DNA electrophoresis, SSCP, Cloning, Southern/Northern blotting</li> <li>• SDS-PAGE, Western Blot, Dot Blot</li> <li>• RNA Interference</li> <li>• Protein expression and purification</li> <li>• Flow cytometry</li> <li>• Monoclonal antibody production</li> <li>• Statistical Analysis of Scientific Data</li> </ul>
Computer skills and competences	<ul style="list-style-type: none"> <li>• Proficient knowledge of Microsoft Office Word, Excel, Access and Powerpoint</li> <li>• Proficient knowledge of ED-Puzzle</li> <li>• Proficient knowledge of Prezi</li> <li>• Proficient knowledge of Google Drive</li> <li>• Working knowledge of Cloud Computing</li> <li>• Working knowledge of Adobe Photoshop</li> </ul>
Driving licence	Clean Italian driving licence (category B)
Other	<u>Pastry Chef Diploma</u> <u>Level in national and international classification: 95/100</u>

### Additional information

#### PUBLICATIONS

- Grimaldi, A., Tettamanti, G., Rinaldi, L., Brivio, M.F., Castellani, D. and de Eguileor, M. 2004. Muscle differentiation in tentacle of *Sepia officinalis* (Mollusca) is regulated by muscle regulatory factors (MRFs) related proteins. *Development growth and differentiation* 46: 83-95.

## MEETINGS

- Anwar, K., El-Hassan, H., Castellani, D., Price, S.C., Hinton, R.H. and Kass, G.E.N. 2000. Modulation of the hepatic effects of paracetamol (acetaminophen) by the anti-apoptotic peptide z-VAD-fmk. *Toxicology* 148: 79-80.
- Festival of Research 2010, University of Surrey, Guildford, Surrey, UK.
- Festival of Research 2009, University of Surrey, Guildford, Surrey, UK.
- 1° National Congress of the Italian Society of Evolution biology (SIBE), Firenze (ITALY) September 2006.
- 64° National Congress of the Italian Union of Zoology, Varese (ITALY) September 2003.
- IV National Congress of Marine Mammals and Turtles, Milan (ITALY) November 1999

## Other Personal skills and competences

<b>Dates</b>	April 2012 – December 2012
<b>Title of qualification awarded</b>	Pastry chef diploma
<b>Principal subjects and occupational skills covered</b>	<p>The course was structured as follow:</p> <ul style="list-style-type: none"> <li>• Health and Safety at work (22 hours): D. lgs. N.81 9<sup>th</sup> April 2008</li> <li>• Hygiene (22 hours): HACCP system</li> <li>• Nutrition and Food Sciences (42 hours)</li> <li>• Practical work: - 216 hours in-school</li> </ul> <p style="margin-left: 40px;">Supervisor: Davide Ferronato (Pastry Chef)</p> <p style="margin-left: 40px;">- 100 hours professional stage at Pasticceria Bacilieri</p> <p style="margin-left: 40px;">Supervisor: Mario Bacilieri (Pastry Chef)</p> <p style="margin-left: 40px;">Pasticceria Bacilieri</p> <p style="margin-left: 40px;">Via Statale 24, 21030 Marchirolo (Va), Italy</p>
<b>Name and type of organization providing education and training</b>	<p>Centro di Formazione Professionale (Corso Serale)</p> <p>Via Monte Generoso 71/a 21100, Varese, Italy</p>
<b>Level in national and international classification</b>	95/100