

# Curriculum Vitae

## PERSONAL INFORMATION

Name/Surname Laura Bordoni  
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## EDUCATION

**PhD in “Life and Health Sciences”** - Molecular Biology and Cellular Biotechnology. School of Pharmaceutical Sciences and Health Products, University of Camerino. Thesis: “How gene-environment interactions can influence health: a nutrigenetic and nutrigenomic approach”.

**Post-graduate diploma in Systematic Revision and Meta-analysis for evidence-based guidelines production with Cochrane method.** University of Verona.

**National habilitation as professional biologist.**

**Master Degree in Food Science and Human Nutrition (LM-61)** Faculty of Medicine, University of Perugia. *Final grade: 110/110 e Lode.*  
Thesis: “Epigenetic role of polyunsaturated fatty acids in carcinogenesis”.

**Bachelor Degree in Biological Sciences, curriculum analytical biology (L-13)** Faculty of Science, Polytechnic University of Marche. *Final grade: 110/110 e Lode*  
Thesis: “Diet and CVD, a nutrigenetic approach”

**High school diploma.** Liceo Scientifico “Campana”, Osimo. *Final grade: 100/100*

## SCIENTIFIC PRODUCTION

*Contributes in scientific journals:*

- Epigenetic inheritance and neurodegeneration: nutriepigenomics and food pesticides. Bordoni L., Nasuti C., Di Stefano A., Marinelli L., Gabbianelli R. (submitted)
- Early impairment of epigenetic pathway in a neurodegenerative model induced by environmental factor: an additional mechanism behind pyrethroids toxicity. Bordoni L., Nasuti C, Lopez-Rodas G and Gabbianelli R. (submitted)
- HTCR2 gene variant and cortisol levels after endurance physical activity. Bordoni L, Fedeli D, Piangerelli M, and Gabbianelli R. (submitted)
- Zic1 increased expression after cold exposure in adipose tissue: new insights on epigenetics in browning. (Paper in preparation).
- 11th Congress of the International Society of Nutrigenetics/Nutrigenomics (ISNN) : Abstracts. [No authors listed] J Nutrigenet Nutrigenomics. 2017;10(3-4):93-125. doi: 10.1159/000480052.
- Permethrin pesticide induces NURR1 up-regulation in dopaminergic cell line: Is the pro-oxidant effect involved in toxicant-neuronal damage? Bordoni L, Fedeli D, Nasuti C, Capitani M, Fiorini D, Gabbianelli R. Comp Biochem Physiol C Toxicol Pharmacol. 2017;201:51-57. doi: 10.1016/j.cbpc.2017.09.006.
- Angiotensin-Converting Enzyme (ACE) Ins/Del polymorphism and body composition: the intermediary role of hydration status. Bordoni L, Napolioni V, Marchegiani F, Amadio E and Gabbianelli R. J Nutrigenet Nutrigenomics. 2017 Mar 18;10(1-2):1-8. doi: 10.1159/000458154.

- Nutritional Epigenetics: A New Level of Complexity About Impact of Diet on Health. Bordoni L. *EC Nutrition* 7.5 (2017): 185-186.
- 2nd European Summer School on Nutrigenomics. September 5-9, 2016, Camerino, Italy: Abstracts. *J Nutrigenet Nutrigenomics*. 2016;9(2-4):127-149. doi: 10.1159/000448866
- Obesity-related genetic polymorphisms and adiposity indices in a young Italian population. Bordoni L, Marchegiani F, Piangerelli M, Napolioni V, Gabbianelli R. *IUBMB Life*. 2017 Jan 16. doi: 10.1002/iub.1596.
- 10th Congress of the International Society of Nutrigenetics/Nutrigenomics (ISNN). Abstracts. *J Nutrigenet Nutrigenomics*. 2016;9(2-4):151-210. doi:10.1159/000448491
- In Vivo and in Silico Studies to Identify Mechanisms Associated with Nurr1 Modulation Following Early Life Exposure to Permethrin in Rats. Fedeli D, Montani M, Bordoni L, Laudadio E, Galeazzi R, Gabbianelli R. *Neuroscience*. 2017 ;340:411-423. doi: 10.1016/j.neuroscience.2016.10.071
- Intergenerational Effect of Early Life Exposure to Permethrin: Changes in Global DNA Methylation and in Nurr1 Gene Expression. Bordoni L, Nasuti C, Mirto M, Caradonna F, Gabbianelli R. *Toxics* 2015, 3: 451-461; doi: 10.3390/toxics3040451

*Book Chapters:*

- "Nutrigenomics and food pesticides". Bordoni L. and Gabbianelli R. *Nutrigenetics and Nutrigenomics*. Edited by: De Caterina R., Martinez J.A., and Kohlmeier M. Elsevier S&T.(submitted).

*Oral communications:*

- Oral presentation at Foodomics 2018, Cesena, University of Bologna, January 2018. "Nutriepigenomics and epigenetic inheritance: insights on food pesticides and neurodegeneration".
- Oral presentation at the "II European Summer School on Nutrigenomics", University of Camerino, september 2016. "A systematic review on the Paleo diet and its effects on metabolic health: Keyson for an applied evidence-based nutrition".

*Communications at congresses (posters):*

- Congress "The many faces of epigenetics", Oxford, 2017. New insights on molecular and epigenetic mechanisms of adipose browning in early cold exposure: focus on Zic1 expression regulation. Bordoni L\*,Perugini J\*, Acciarini S, Giordano A, Gabbianelli R and Cinti S.
- Congress of the International society of Nutrigenetics and Nutrigenomics, Los Angeles, 2017. Early-life exposure to permethrin food contaminant inducing neurodegeneration: is it matter of epigenetics? Bordoni L, Nasuti C, Fedeli D, and Gabbianelli R.
- Congress of the International society of Nutrigenetics and Nutrigenomics, Los Angeles, 2017. Chemical stress induces up-regulation of Nurr1: role of antioxidants. Bordoni L, Fedeli D, Nasuti C, Fiorini D, Quassinti L, Bramucci M and Gabbianelli R
- Congresso Alimenti e Nutraceutici: qualità e salute del consumatore. Università di Camerino, 2017. Epigenetics of pesticide-induced neurodegeneration. Gabbianelli R, Bodoni L., Fedeli D., Nasuti C.
- Congress of the International society of Nutrigenetics and Nutrigenomics, Tel Aviv, 2016. Angiotensin-Converting Enzyme (ACE) I/D polymorphism influences body composition through the hydration status in a young Italian population. Bordoni L, Marchegiani F, Napolioni V, Gabbianelli R.
- Congress of the International society of Nutrigenetics and Nutrigenomics, Tel Aviv, 2016. Impact of Food Pesticides on the Gut Microbiota. Gabbianelli R, Fedeli D, Bordoni L, Fiorini, Ivan Dus D, Nasuti C.
- Chromatin and the environment, Spetse, Greece (EMBO course) 2016. Can Early Life Exposure to Permethrin lead to intergenerational effects? Gabbianelli R, Bordoni L, Nasuti C, Mirto M, Cruciata I, Caradonna F.

- 2° International congress of food science and technologies, Valencia, 2016. Tocotrienol's protective effect on neuronal damage induced by permethrin in PC12 cells. Bordoni L, Capitani M, Nasuti C, Manfredini S, Gabbianelli R. Poster Presentation
- Congresso alimenti funzionali e nutraceutici per la salute, Camerino, 2016. Neuroprotection of electrolyzed reduced water: in vitro study on PC12 cell line. Fedeli D, Nasuti C, Bordoni L, Montani M, Dus I, Gabbianelli R.
- Congress of the International society of Nutrigenetics and Nutrigenomics, Chapel Hill 2015. Protective effect of glutathione on damage induced by permethrin in a neuronal model of PC12 cells. Bordoni L, Capitani M, Nasuti C, Gabbianelli R.

#### PRIZES AND AWARDS

2017 - University of North Carolina, Nutrition Research Unite Scholarship for the course "Nutrigenetics, nutrigenomics and precision nutrition" attendance.

2016 - University of Camerino Doctoral candidates research grants (DCR) – Founded project " Nutrigenomic role of bioactive compound extracted from legumes: New Insights on Lignans" at the doctoral competition for research grant designed to support excellent doctoral candidates at the career stage at which they are starting their own independent research

2014 - 5x1000 University of Study of Perugia Award for Master Thesis with significant attention to innovative disciplinary issues..

2014 - University of Camerino Scholarship for the attendance to the first "Summer School on Nutrigenomics".

#### OTHER

- Member of Editorial Board for "EC Nutrition" (from October 2016)
- Invited reviewer for scientific journals: International Union of Biochemistry and Molecular Biology (IUBMB Life), Molecular Biology Reports (MOLE)

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