

# Europass Curriculum Vitae

## Personal information

First name/ Surname **Maria Mazza**  
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Nationality Italian

## Current qualifications **Biologist at the Genetics and Immunobiochemistry Laboratory of IZSPLV**

### Work experience

*November 2003 to present date*

- Biologist manager at the National Reference Laboratory for Transmissible Spongiform Encephalopathies (CEA) – IZSPLV.
- Participation to evaluation, application and standardization of diagnostic screening tests and confirmatory methods, as required by the Regulation (EC) 999/2001 for the prevention, control and eradication of transmissible spongiform encephalopathies.
- Trainer and technical supporter of the staff within the Italian laboratories on the rapid screening tests applied to the diagnosis of BSE and Scrapie.
- Participation in the activity of diagnostic confirmation and molecular characterization of BSE and Scrapie cases identified by the network of the IIZZSS laboratories.

*June 2000 – October 2003*

- Fellow biologist – CEA
- Research activity in a study pilot conducted in the Piedmont region on the acquisition and development of the rapid test "Prionics-Check" in order to operate, in according to the EC guidelines, an active surveillance of BSE in Italy.

*December 1993 – October 1997*

- Researcher - Istituto per la Cerealicoltura (QCE), Rome, Italy
- Research activities on the selection and the genetic improvement of wheat.

*January 1991 – August 1992*

- Fellow biologist - different hospitals in Rome and Turin
- Training on the different techniques applied for the clinical analyses and prenatal diagnosis.

### Education and training

*December 1997*

- Specialization in Genetics Applied (70/70), University "La Sapienza" of Rome, Italy

*November 1988*

- Degree in "Biological Science" (110/110 *cum laude*), University of Messina, Italy

### Personal skills and competences

Since 2000 she is working in the field of analytical techniques applied to diagnosis and molecular discrimination of BSE and Scrapie strains. Particularly in recent years she has gained experience in new highly sensitive amplification techniques for an *ante-mortem* diagnosis of the these prion disease.

She has expertise in proteomic approaches, mainly by bi-dimensional electrophoresis (2DE), in different field regarding the animal health and food safety (allergens, anabolic treatments in veals, food fraud).

During last years she published scientific articles on these fields.

High experience in the laboratory quality management system in according to the standard ISO 17025.

Mother tongue(s) Italian  
Other language(s) English, fluent

Technical skills and competences	High experience in immunobiochemical techniques applied to the diagnosis and characterization of TSE strains. Experience in research project management.
Computer skills and competences	Operating system – Windows. Microsoft Applications – Word, Excel, Power Point, Internet Explorer.
<b>Additional information</b>	Speaker at national congress on topics related to the diagnosis activity and the research.
<b>References</b>	Author or co-author of 33 scientific articles published on peer-reviewed international journals; of 19 scientific articles published on national journals and more than 90 papers presented as posters in several national and international conferences.

#### Most recent references

1. Langeveld JPM, Pirisinu L, Jacobs JG, Mazza M, Lantier I, Simon S, Andréoletti O, Acin C, Esposito E, Fast C, Groschup M, Goldmann W, Spiropoulos J, Sklaviadis T, Lantier F, Ekateriniadou L, Papasavva-Stylianou P, van Keulen LJ M, Acutis PL, Agrimi U, Bossers A and Nonno R. *Four types of scrapie in goats differentiated from each other and bovine spongiform encephalopathy by biochemical methods*. Vet Res (2019) 50:97; <https://doi.org/10.1186/s13567-019-0718-z>
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3. Favole A, Mazza M, Vallino Costassa E, D'Angelo A, Lombardi G, Marconi P, Crociara P, Berrone E, Gallo M, Palmitessa C, Orrù CD, Caughey B, Acutis PL, Caramelli M, Casalone C, Corona C. *Early and Pre-Clinical Detection of Prion Seeding Activity in Cerebrospinal Fluid of Goats using Real-Time Quaking-Induced Conversion Assay*. Sci Rep. 2019 Apr 16;9(1):6173. doi: 10.1038/s41598-019-42449-7.
4. Guglielmetti C, Manfredi M, Brusadore S, Sciuto S, Esposito G, Ubaldi PG, Magnani L, Gili S, Marengo E, Acutis PL, Mazza M. *Two-dimensional gel and shotgun proteomics approaches to distinguish fresh and frozen-thawed curled octopus (*Eledone cirrhosa*)*. J Proteomics. 2018 Aug 30;186:1-7. doi: 10.1016/j.jprot.2018.07.017.
5. Vallino Costassa E, D'Angelo A, Mazza M, Meloni D, Baioni E, Maurella C, Colussi S, Martinelli N, Lo Faro M, Berrone E, Favole A, Crociara P, Grifoni S, Gallo M, Lombardi G, Iulini B, Casalone C, Corona C. *Clinical, pathological, and molecular features of classical and L-type atypical-BSE in goats*. PLOS ONE | <https://doi.org/10.1371/journal.pone.0198037> May 24, 2018
6. Mazza M, Guglielmetti C, Ingravalle F, Brusadore S, Langeveld JPM, Ekateriniadou LV, Andréoletti O, Casalone C and Acutis PL. *Low fraction of the 222K PrP variant in the protease-resistant moiety of PrPres in heterozygous scrapie positive goats*. Journal of General Virology, 2017; DOI 10.1099/jgv.0.000843.
7. Corona C, Costassa EV, Iulini B, Caramelli M, Bozzetta E, Mazza M, Desiato R, Ru G, Casalone C. *Phenotypical Variability in Bovine Spongiform Encephalopathy: Epidemiology, Pathogenesis, and Diagnosis of Classical and Atypical Forms*. Prog Mol Biol Transl Sci. 2017;150:241-265. doi: 10.1016/bs.pmbts.2017.06.015. Epub 2017 Aug 10
8. Iulini B, Vallino Costassa E, Corona C, Meloni D, Favole A, Mazza M, Caramelli M, Maurella C and Casalone C. *Classical and Atypical Bovine Spongiform Encephalopathy: Epidemiology, Pathogenesis and Diagnosis*. Chapter 1 from the book Prion – An overview – INTECH, 2017.
9. Vallino Costassa E, Iulini B, Mazza M, Acutis PL, Maurella C, Meloni D, Pautasso A, Capucci L, Bozzetta E, Simmons MM, Zanusso G, Pocchiari M, Corona C, Casalone C. *Pathogenesis and transmission of classical and atypical BSE in cattle*. Food Safety, 2016; doi: 10.14252/foodsafetyfscj.2016018.
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