

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **VALERIA SPECCHIA**
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Nationality Italian
Date of Birth 23/09/1972
Gender Female

WORK EXPERIENCE

- Dates (from - to) January 2022 - today
- Name and address of the employer Università del Salento – Department of Biological and Environmental Sciences and Technologies
- Type of business or sector
- Occupation or position held **Associate professor – Genetics (BIO/18)**
- Main activities and responsibilities

- Dates (from - to) November 2010 – December 2021
- Name and address of the employer Università del Salento - Department of Biological and Environmental Sciences and Technologies
- Type of business or sector
- Occupation or position held **Researcher – Genetics (BIO/18)**
- Main activities and responsibilities

- Dates (from - to) November 2005 – December 2009
- Name and address of the employer Università del Salento - Department of Biological and Environmental Sciences and Technologies
- Type of business or sector
- Occupation or position held **Post doc Researcher – (Genetics BIO/18)**
- Main activities and responsibilities

EDUCATION AND TRAINING

- Dates (from - to) 2001-2004
- Name and type of organisation providing education and training Università del Salento
- Principal subjects/occupational skills covered Genetics
- Title of qualification awarded **Doctorate in Biology and Biotechnology**

- Date 1999

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

Università degli Studi di Lecce

Experimental degree thesis in genetics

Graduate in Biological sciences

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

ITALIAN
ENGLISH

SCIENTIFIC SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

- Research interests (5 Key words): genetic model organisms, mobile genetic elements in genome evolution, genomic instability, genetic biodiversity, eDNA metabarcoding
- Author of 34 papers on Scientific Journals.
- Lecturer of 12 academic courses since 2011 (i.e. Genetics, Molecular and applied genetics).
- Organization and Communication at international and national congresses (9 communications)
- Supervisor of more than 50 university theses (three-year, specialist and master's); guiding teacher and co-rapporteur of 4 doctoral students, 2 post doc researchers, 7 graduated international students
- Visiting researcher at IGBMC (Strasbourg) with a European molecular biology organization short term fellowship
- Lecturer of Genetics at the University of Jaen (Spain)

RELEVANT ROLES AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

- Coordinator/Principal investigator of the research project titled "Environmental stress, transposable elements and genome evolution", 2012-2015. Funding body: MIUR-FIRB Code RBFR10V8K6 Role: National scientific coordinator
- Scientific responsible of FFABR 2017 funds. Funding body: MIUR
- Participant to the European COST Action "DNAqua-Net: Developing new genetic tools for bioassessment of aquatic ecosystems in Europe", 2018-2021. Funding body: European Union. Code CA15219
- Participant to the project "Common strategies and best practices to Improve the transnational Protection of ECOSystem integrity and services - ImPrEco". Funding body: European Union-Interreg V-B ADRION 2014- 2020.
- Participant to the project "*Drosophila melanogaster* as a model to study the role of the Fragile-X Mental retardation protein in the genome stability pathway mediated by piRNAs", 2014-2018. Funding body: Telethon foundation. Code GP14181
- Participant to the project "RNAi, heterochromatin and epigenetic control of gene expression and chromosomal behaviour". Funding body: MIUR PRIN 2007
- Participant to the project "Genetic and molecular characterization of genes involved in RNAi in *Drosophila melanogaster*". Funding body: MIUR PRIN 2004
- Other projects: CUIS 2015, PON BIO-D 2021. Role: Participant as researcher.
- Editorial team member of the journal "Comparative Cytogenetics"
- Review editor of the journal "Frontiers in Genetics"
- Review editor of the journal "Frontiers in Cell and Developmental Biology"
- Member of the scientific board of the University of Salento for the project "Interasia" 2016-2019
- Member of the scientific board of the University of Salento for the Erasmus plus project KA107 n.2019-1-IT02-KA107-061483 2019-today
- Scientific responsible of an inter-institutional agreement between University of Salento and "Al Farabi Kazakh National University".
- Member of the working group for the internationalization of the University of Salento from 2020
- Member of the board of the University of Salento for Spin off, from 2021
- Member of the board of the Doctorate in "Biological and Environmental Sciences and technologies" at the University of Salento

PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 34
- TOTAL NUMBER OF CITATIONS: 1097
- H-INDEX: 11

10 MOST RELEVANT PUBLICATIONS

1. Napoletano F., Ferrari Bravo G., Voto I.A.P., Santin A., Celora L., Campaner E., Dezi C., Bertossi A., Valentino E., Santorsola M., Rustighi A., Fajner V., Maspero E., Ansaloni F., Cancila V., Valenti C.F., Santo M., Artimagnella O.B., Finaurini S., Gioia U., Polo S., Sanges R., Tripodo C., Mallamaci A., Gustincich S., D'Adda di Fagagna F., Mantovani F., Specchia V., Del Sal G. The prolyl-isomerase PIN1 is essential for nuclear Lamin-B structure and function and protects heterochromatin under mechanical stress. *Cell reports*, 2021
2. Pinna M., Saccomanno B., Marini G., Zangaro F., Kabayeva A., Khalaj M., Shaimardan L., D'Attis S., Tzafesta E., Specchia V. Testing the influence of incomplete DNA barcode libraries on ecological status assessment of mediterranean transitional waters. *Biology*, 2021, 10(11), 1092
3. Specchia V., Bozzetti M.P. The role of HSP90 in preserving the integrity of genomes against transposons is evolutionarily conserved. *Cells*, 2021, 10(5), 1096
4. Bestetti I., Barbieri C., Sironi A., Specchia V., Yatsenko M.D. De Donno, C. Caslini, D. Gentilini, M. Crippa, L. Larizza, A. Marozzi, A. Rajkovic, D. Toniolo, M.P. Bozzetti, and P. Finelli . Targeted whole exome sequencing and *Drosophila* modelling to unveil the molecular basis of primary ovarian insufficiency. *Human Reproduction*, Vol.36, No.11, pp. 2975–2991, 2021
5. Specchia V., Puricella A., D'Attis S., Massari S., Giangrande A., Bozzetti M.P. *Drosophila melanogaster* as a Model to Study the Multiple Phenotypes, Related to Genome Stability of the Fragile-X Syndrome. *Frontiers in Genetics* 2019, 10, 10. (ISSN:1664-8021).
6. Pawlowski J. Kelly-Quinn M., Altermatt F., Apotheloz-Perret-Gentil L., Beja P., Boggero A., Borja A., Bouchez A., Cordier T., Domaizon I., Feio M.J., Filipe A.F., Fornaroli R., Graf W., Herder J., van der Hoorn B., Iwan Jones J., Sagova-Mareckova M., Moritz C., Barquin J., Piggott J.J., Pinna M., Rimet F., Rinkevich B., Sousa-Santos C., Specchia V., Trobajo R., Vasselon V., Vitecek S., Zimmerman J., Weigand A., Leese F., Kahlert M. The future of biotic indices in the ecogenomic era: Integrating (e)DNA metabarcoding in biological assessment of aquatic ecosystems, *M. Science of the Total Environment*, 2018, 637- 638, pp. 1295–1310
7. Specchia V., D'Attis S., Puricella A., Bozzetti M.P. dFmr1 plays roles in small RNA pathways of *Drosophila melanogaster*. *International Journal of Molecular Sciences* 2017, 18, 1066. (ISSN:1661-6596E-ISSN:1422-0067).
8. Sorrentino G., Ruggeri N., Specchia V., Cordenonsi M., Mano M., Dupont S., Manfrin A., Ingallina E., Sommaggio R., Piazza S., Rosato A., Piccolo S., Del Sal G. Metabolic control of YAP and TAZ by the mevalonate pathway. *Nature Cell Biology* 2014, vol. 16 numero 4, p. 357-366.
9. Specchia V., Piacentini L., Tritto P., Fanti L., D'Alessandro R., Palumbo G., Pimpinelli S., Bozzetti M.P. Hsp90 prevents phenotypic variation by suppressing the mutagenic activity of transposons. *Nature*, 2010, 463(7281), pp. 662–665
10. Specchia V., Benna C., Mazzotta G., Piccin A., Zordan M.A., Costa R., Bozzetti M.P. *aubergine* gene overexpression in somatic tissues of *aubergine* mutants interferes with the RNAi pathway of a *yellow* hairpin dsRNA in *Drosophila melanogaster*. *Genetics* 2008, 178, 1271-1282.