

EUROPEAN
CURRICULUM VITAE
FORMAT



INFORMAZIONI PERSONALI

Name	LINDA AVESANI
Address	UNIVERSITA' DEGLI STUDI DI VERONA STRADA LE GRAZIE, 15. 37134 VERONA
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Nazionalità	Italiana
Data di Nascita	2/12/1975

ESPERIENZE LAVORATIVE

• Data (da- a-)	Aprile 2020 - oggi
• Nome istituzione	Università degli Studi di Verona – Dipartimento di Biotecnologie
• Posizione	Professoressa Associata- Genetica Agraria (AGR/07)
• Data (da-a)	Novembre 2016 – Marzo 2020
• Nome istituzione	Università degli Studi di Verona – Department of Biotechnology
• Posizione	Ricercatrice a tempo Determinato tipo B - Genetica Agraria (AGR/07)
• Date (da-a)	Marzo 2012 – Ottobre 2016
• Nome istituzione	Università degli Studi di Verona – Department of Biotechnology
• Posizione	Ricercatrice a tempo Determinato tipo A - Genetica Agraria (AGR/07)

ESPERIENZA INTERNAZIONALE

Settembre 2005-Gennaio 2006
John Innes Centre, Norwich (UK)
Visiting Scientist

Luglio 2023
UC Davis, Davis (USA).
Visiting Scientist

FORMAZIONE

• Date	2004-2012
• Istituzione	Università degli Studi di Verona
• Qualifica	Post Doc
• Date	2001 – 2004
• Istituzione	Università degli Studi di Verona
• Titolo	Expression of human GAD65 in plant systems
• Titolo	Doctorate in Agro-Industrial Biotechnology
• Dates	1994 - 2000
• Istituzione	Università degli Studi di Verona
• Titolo	Experimental degree thesis on Molecular Farming

ABILITA' PERSONALI

LINGUA MADRE
ALTRI LINGUAGGI

ITALIANO
INGLESE

**AMBITI DI RICERCA
AND COMPETENCES**

- plant molecular farming, Biodiversità urbana, ingegneria metabolica, biofarmaceutici, metabolite secondari vegetali.
- Autrice di 47 pubblicazioni su giornali scientifici.
- Docente di 25 corsi in ambito accademico dal 2012 (i.e. Molecular farming, Plant Bioreactors, Plant Genetics, Genetics and Molecular Methodologies).
- Organizzatrice scientifica e relatrice a congress nazionali e internazionali (piu di 50 partecipazioni).
- Supervisore di 70 tesi triennali emagistrali e tutor di 5 tesi PhD.
- Relatrice su invito:
 - o Avesani L., "Plant molecular farming of Virus Nano Particles from diagnosis to therapy" Transgenic Plants and Transformation Technologies VI, Vienna 2022 VISCEA
 - o Avesani L., "Piante Officinali: Aspetti Bio-agronomici, genetici e (fito)Terapeutici" Accademia dei Georgofili, Napoli 2022.
 - o Avesani L., "I virus vegetali: alleati per la salute umana?" FISV Days- Trento 2021
 - o Avesani L., "Molecular farming: the use of plant as bio factories for high-value products production molecules" Horizons in Plant Biotechnology, Scuola Sant'Anna di Pisa. On-line, 2021
 - o Avesani L., "Plant molecular Farming perspectives" Seminar for Universit  di Sassari. On-line, 2020.
 - o Avesani L. Plant-made nanomaterials for diagnosis and therapy. XV FISV Congress. Sapienza University of Rome, 2018.
 - o Avesani L. Taming Plant Viruses - Fundamental Biology to Bionanotechnology. Biochemical Society. Pitlochry, UK 2016.
 - o Avesani L. Success Project: "Plant-made GREEN Kit". Bioeconomy and Biotech Topics in H2020 SME Instrument: new frontiers and opportunities. Italian Forum on Industrial Biotechnology and Bioeconomy. Altavilla Vicentina (CUOA) 23 September 2016
 - o Avesani L. Molecular farming - lessons learned for autoimmune diseases. International School of Pharmacology. Course on Nutraceuticals. Erice 26-30 September 2015.
 - o Avesani L. Molecular farming: produzione di molecole di interesse medico in planta. University of Urbino. Urbino 2006.

RUOLI RILEVANTI E COMPETENZE

- Consulente scientifica e di ricercar e sviluppo di Diamante SB srl, ex-spin-off dell'Universit  di Verona
- Co-founder di Diamante SB srl
- AMMINISTRATRICE DELEGATA DI Officina Biotecnologica srl, spin-off dell' Universit  di Verona (2014-2016)
- Coordinatrice di progetti di ricerca nazionali e internazionali:
- - o 2023-2026 coordinatrice del progetto eVRgreen finanziato dalla Fondazione Cariverona
 - o 2022-2024 partecipazione al National Biodiversity Future centre finanziato dalla Comunit  Europea (Next Generation EU). Spoke 6: Biodiversity and human wellbering.
 - o 2017-2022 "Pharma-Factory". Finanziato da : Horizon2020, Bio-based Industry. Role: WP Leader;
 - o 2018-2019 "Pi-Greek". Finanziato da: Horizon2020, SME- Instrument Phase 1 Ruolo: Coordinatrice scientifica;
 - o 2016-2020 "Traditional and Innovative Approaches for the use of woad in textile industry". Finanziato da: University of Verona. Ruolo: Coordinatrice

- 2012-2015 "Development of new strategies for autoimmune diseases immuno-modulation by using peptides produced in plant platforms". Finanziato da: MIUR, FIRB. ruolo: coordinatrice
- 2017-2018 "Development of a prototype for vanillin production in a bioreactor". Funding Body: Fondo Sociale Europeo (FSE). Role: Research Unit coordinator
- 2017-2020 "BB-drink: valorization of elite barley hyper-accumulating beta-glucans: from molecular characterization to healthy beverage production". Finanziato da: University of Verona. Role: Principal Investigator.
- Premi:
 - G_factor 2019
 - "GammaDonna", 2018 Finalist.
 - Best Female Awards, 2 Corporate Gaetano Marzotto 2016
 - Marisa Bellisario. Premio Marisa Bellisario "Il germoglio d'oro".
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20 MOST RELEVANT
PUBLICATIONS

1. Lico, C., Santi, L., Baschieri, S., ...Di Bonito, P., Avesani, L. (2020). Plant Molecular Farming as a Strategy Against COVID-19 – The Italian Perspective. *Frontiers in Plant Science* 11, 609910
2. Zampieri, R., Brozzetti, A., Pericolini, E., ...Falorni, A., Avesani, L. (2020). Prevention and treatment of autoimmune diseases with plant virus nanoparticles. *Science Advances* 6(19)
3. Negri, S., Commisso, M., Avesani, L., Guzzo, F. (2021). The case of tryptamine and serotonin in plants: A mysterious precursor for an illustrious metabolite. *Journal of Experimental Botany* 72(15)
4. Bianconi, M., Ceriotti, L., Cuzzocrea, S., ...Avesani, L., Guzzo, F. (2020). Red Carrot Cells Cultured in vitro Are Effective, Stable, and Safe Ingredients for Skin Care, Nutraceutical, and Food Applications. *Frontiers in Bioengineering and Biotechnology*, 8, 575079.
5. Gecchele, E., Negri, S., Cauzzi, A., ...Zaffani, G., Avesani, L. (2021). Optimization of a sustainable protocol for the extraction of anthocyanins as textile dyes from plant materials. *Molecules*, 26(22), 6775
6. Santoni, M., Ciardiello, M.A., Zampieri, R., ...Mari, A., Avesani, L. (2019) Plant-made Bet v 1 for Molecular diagnosis. *Frontiers in Plant Science* 10, 1273
7. Arcalis E, Ibl V, Rademacher T, Avesani L, Morandini F, Bortesi L, Pezzotti M, Vitale A, Pum D, Stoeger E. Characterization of Russell-like bodies in the seeds of *Arabidopsis thaliana*. *Frontiers in Plant Science*. 2019, 10:277.
8. Bertini E, Merlin M, Gecchele E, Puggia A, Brozzetti A, Commisso M, Falorni A, Bini V, Klymyuk V, Pezzotti M, Avesani L. Design of a type-1 diabetes vaccine candidate using edible plants expressing a major autoantigen. *Frontiers in Plant Science*. 2018, 9:572.
9. Commisso M, Bianconi M, Di Carlo F, Poletti S, Bulgarini A, Munari F, Negri S, Stoccheri M, Ceoldo S, Avesani L, Assfalg M, Zoccatelli G, Guzzo F. Multi-approach metabolomics analysis and artificial simplified phytocomplexes reveal cultivar-dependent synergy between polyphenols and ascorbic acid in fruits of the sweet cherry (*Prunus avium* L.). *PLOS One*. 2017, Jul 21; 12(7): e0180889
10. Zenoni S, Fasoli M, Guzzo F, Dal Santo S, Amato A, Anesi A, Commisso M, Herderich M, Ceoldo S, Avesani L, Pezzotti M, Torielli GB. Disclosing the molecular basis of the postharvest life of berry in different grapevine genotypes. *Plant Physiology* 2016 : 16008651-8652016.
11. Merlin M, Pezzotti M, Avesani L. Edible plants for oral delivery of biopharmaceuticals. *British Journal of Clinical Pharmacology*. Br J Clin Pharmacol. 2016 Apr 1.
12. Zamboni A, Zanin L, Tomasi N, Avesani L, Pinton R, Varanini Z, Cesco S. Early transcriptomic response to Fe supply in Fe-deficient tomato plants is strongly influenced by the nature of the chelating agent. *BMC Genomics*. 2016 Jan 7;17(1):35.
13. Tinazzi E, Merlin M, Bason C, Beri R, Zampieri R, Lico C, Bartoloni E, Puccetti A, Lunardi C, Pezzotti M, Avesani L. Plant-Derived Chimeric Virus Particles for the Diagnosis of Primary Sjögren Syndrome. *Front Plant Sci*. 2015 Dec 1;6
14. Merlin M., Gecchele E., Arcalis E., Remelli S., Brozzetti A., Pezzotti M., Avesani L. Engineering the subcellular localization of GAD65 in plant cells is an efficient tool for the optimization of upstream production and downstream processing. *Biotechnology Journal*, 2015.
15. Pinnola A, Ghin L, Gecchele E, Merlin M, Alboresi A, Avesani L, Pezzotti M, Capaldi S, Cazzaniga S, Bassi R. Heterologous Expression of Moss Light-harvesting Complex Stress-related 1 (LHCSR1), the Chlorophyll a-Xanthophyll Pigment-protein Complex Catalyzing Non-photochemical Quenching, in *Nicotiana sp.* *J Biol Chem*. 2015 Oct 2;290(40):24340-54.
16. Milia G, Camiolo S, Avesani L, Porceddu A. (2015). The dynamic loss and gain of introns during the evolution of the Brassicaceae. *Plant J*, 82(6)
17. Commisso M, Negri S, Bianconi M, Gambini S, Avesani S, Ceoldo S, Avesani L, Guzzo F. (2019). Untargeted and Targeted Metabolomics and Tryptophan Decarboxylase In Vivo Characterization Provide Novel Insight on the Development of Kiwifruits (*Actinidia deliciosa*). *Int J Mol Sci* 20(4)
18. Cavallini E, Zenoni S, Finezzo L, Guzzo F, Zamboni A, Avesani L, Torielli GB. Functional diversification of grapevine MYB5a and MYB5b in the control of flavonoid biosynthesis in a petunia anthocyanin regulatory mutant. *Plant Cell Physiol*. 2014 Mar;55(3):517-34.
19. Morandini F, Avesani L, Bortesi L, Van Droogenbroeck B, De Wilde K, Arcalis E, Bazzoni F, Santi L, Brozzetti A, Falorni A, Stoger E, Depicker A, Pezzotti M. Non-

- food/feed seeds as biofactories for the high-yield production of recombinant pharmaceuticals. Plant Biotechnol. J. 2011. 9(8): 911-921.
20. Avesani L, Vitale A, Pedrazzini E, De Virgilio M, Pompa A, Barbante A, Gecchele E, Dominici P, Morandini F, Brozzetti A, Falorni A, Pezzotti M. Recombinant human GAD65 accumulates to high levels in transgenic tobacco plants when expressed as an enzymatically inactive mutant. Plant Biotechnology Journal. 2010 Oct 8(8): 862-872.

PATENTS

- 5 National Patents: RM2008A000375, 102015000020005, No. 102022000000581, No. 102021000028496, No. 102020000029498; 2 European Patents: WO 2010010594, WO201619401 A1; 2 US Patent: US20110289630, N. 15/579150 -

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Verona, 19.08.20234

Signature