

CURRICULUM VITAE



PERSONAL INFORMATION

First name, Surname	GIOVANNI, DAL CORSO
E-mail	giovanni.dalcorso@univr.it
University web page	https://www.dbt.univr.it/?ent=persona&id=4805&lang=en
Scopus ID	23017825000
Orcid ID	0000-0002-0594-5930
Nationality	Italian
Date of birth	Omitted

WORK EXPERIENCES

Since Sept 2026	Associate Professor - AGRI-06/A Plant Genetics (Genetica Agraria) – Department of Biotechnology - University of Verona (Italy)
Sept 2023 – Aug 2026	Senior Researcher (RTD-B) - AGRI-06/A Plant Genetics (Genetica Agraria) - Department of Biotechnology - University of Verona (Italy)
Mar 2020 – Aug 2023	Junior Researcher (RTD-A) - AGR/07 Plant Genetics (modified in 2024 as AGRI-06/A) - Department of Biotechnology - University of Verona (Italy)
Jan 2008 – Feb 2020	Technical Assistant (D category) - Laboratory Manager, Student Instructor and thesis assistant supervisor - Radioisotope-lab manager - University of Verona (Italy) – Department of Biotechnology - Laboratory of Plant Molecular Genetics (AGR/07)
Mar 2004 – Jun 2004	Technical Assistant - Technical supervisor of the course Plant Tissue Cell Culture for the Master's degree in Biotechnology - University of Verona (Italy) - Department of Science and Technology - Plant tissue culture Laboratory

EDUCATION AND TRAINING

Since Aug 2009	Honorary Fellowship in Plant Genetics (<i>Cultore della materia</i> , AGR/07) - UNIVERSITY OF VERONA , ITALY - Facoltà di Scienze MM.FF.NN.
Dec 2006 and Mar 2007	Visiting scientist in the lab of Pierre Joliot, INSTITUT DE BIOLOGIE PHYSICO-CHIMIQUE/UMR-CNRS , PARIS, FRANCE (learning experience regarding plant phenotyping by means of chlorophyll fluorescence detection and photosynthesis-related parameters)
Apr 2006 – Dec 2007	PhD Degree in Natural Sciences , - LUDWIG-MAXIMILIANS-UNIVERSITÄT (MÜNCHEN, GERMANY) - Fakultät für Biologie, - 3 rd year PhD - Thesis title „Characterization of the novel photosynthetic protein PPP7 involved in cyclic electron flow around PSI” - „ausgezeichnet”- summa cum laude
Jul 2004 – Mar 2006	1st and 2nd years PhD – MAX PLANCK INSTITUT FÜR ZÜCHTUNGSFORSCHUNG (KÖLN, GERMANY)
Oct 1998 – Mar 2004	Master Degree in Plant and Microbial Biotechnology (Laurea magistrale – five years, old system) - UNIVERSITY OF VERONA (ITALY) - Facoltà di Scienze MM.FF.NN. - Thesis title „Characterization of a bZIP transcriptional factor induced by Cadmium in <i>Brassica juncea</i> (L.) Czern” - 110/110 cum laude

ASN: ABILITAZIONE SCIENTIFICA NAZIONALE - NATIONAL SCIENTIFIC HABILITATION

- 07/E1 – **GENETICA AGRARIA** - II FASCIA (validity: **03/06/2021** to **03/06/2033**)

- 05/A2 – **FISIOLOGIA VEGETALE** - II FASCIA (validity: 07/10/2014 to 07/10/2026)

- 07/E1 – **GENETICA AGRARIA** - II FASCIA (validity: 27/11/2014 to 27/11/2026)

RESEARCH INTERESTS

During his stay abroad (2004-2007), the object of Dr. DalCorso scientific activity was the chloroplast, considering on the one hand, the characterization of a protein of the photosynthetic machinery involved in the cyclic transport of electrons characteristic of photosystem I; on the other hand, the genomic evolution of the relationship between the organelles (mitochondria and chloroplasts) and the nucleus, in the cellular context. The results were published in **Cell** 2008, and **Trends in Genetics** 2007.

Since 2008, the research has focused on the plant-environment interaction, in particular on the study of the genetic and molecular mechanisms involved in the absorption, accumulation and detoxification of heavy metals in plants, with the ultimate aim of identifying the determinants involved in different levels of metal homeostasis, which can be used in the improvement of cultivation techniques and in biotechnological applications of phyto-assisted remediation or bio-fortification of plant species of agronomic interest. Considering these points of view, the research has also considered the application of molecular markers in identifying wheat lines characterized by low Cd accumulation. Attention has also been paid to the evolution of the hyperaccumulation and hypertolerance traits, comparing genetic information (both at DNA and RNA level and epigenetics) between model hyperaccumulating species and metal-sensitive relatives. A contribution has also been made to the field of metal nutrient adsorption and allocation in the plant body. Various cultivation systems have been adopted, ranging from soil to hydroponics.

PARTICIPATION IN FINANCED RESEARCH PROJECTS

Project Agrifuture

Participation in the project **Agrifuture** in the context Smart-Agrifood. Bando per il finanziamento di progetti di ricerca e sviluppo realizzati dalle Reti Innovative Regionali e dai Distretti Industriali. PR Veneto FESR 2021-2027 - DGR n. 729 - 26 June 2024 (CUP: D19J2400700007) G. **DalCorso** is leader of WP3: *Efficacia del trattamento biostimolante sulla germinabilità e resilienza di piante di pomodoro*.

Progetto Ecosistema dell'innovazione (iNEST)

Participation in the project "**VIVAiRESTI** - La filiera Vltivinicola: VALorizzazione dei suoi sottoprodotti per un'agricoltura RESiliente e per applicazioni saluTistiche" – in the context of the Progetto Ecosistema dell'innovazione - BANDO PER IL FINANZIAMENTO DI PROGETTI DI RICERCA destinato a giovani ricercatori. G. **DalCorso** is a participant of the UniVR research unit (tot fin. 48.385,66 €)

CN2 - AGRITECH - Bando a Cascata

Participation in the project "**e-TRAIT4H2O** - CUP: D13C22001330005 - *Approcci innovativi per il risparmio idrico integrando risorse genetiche e sistemi di monitoraggio della risposta delle piante e di controllo delle condizioni edafiche*" BANDO a CASCATA Progetto "National Research Centre for Agricultural Technologies", tematica "Tecnologie dell'Agricoltura (Agritech)" SPOKE 6 - Modelli gestionali per promuovere la sostenibilità e la resilienza dei sistemi agricoli (tot. Fin. 301.000,00 €)

FSE 2023

Participation in the project FSE – 2021-2027 – "*Analisi di biostimolanti sostenibili per il miglioramento della resistenza agli stress ambientali*", in the context of the research project "GRANORESILIENTE: Sviluppo di pratiche sostenibili per il miglioramento della resilienza nella coltivazione del grano tenero", funded by Veneto Region – Fondo Sociale Europeo in sinergia con il Fondo Europeo di Sviluppo Regionale FSE+ 2021-2027

PRIN PNRR2022

Participation in the call PRIN PNRR 2022 – project code Prot. P2022PYC4A - *New tools for seedlessness in sustainable table grapes*. NOSEEDS – Scientific

	Coordinator: Cinzia Montemurro (UniBA); G. DalCorso is a participant of the UniVR research unit
PNRR 2022	Participation in the National Centre CN00000033 <i>National Biodiversity Future Center – NBFC</i> – on the thematic area of Biodiversity. In particular, Verona University is an affiliate of Spoke n. 6 “ <i>Biodiversity and Human wellbeing</i> ”, and is among the founding members of the Hub. G. DalCorso is a participant of the UniVR research unit.
PRIN 2022	Participation in the call PRIN 2022 – project code 202253N2NY – “ <i>Urban parks’ biodiversity to enhance city dwellers’ health. URBioPark</i> ”, Scientific Coordinator: Michela Tiboni (UniBS); Head of the Research Unit: G. DalCorso (UniVR – total cost of the research unit: ≈ 70.000€).
Joint Project 2017	Research project entitled “ <i>Well-being from plants: potential of resurrection plants for phytocosmetic and phytopharmaceutical applications</i> ”. (UniVR – Agripharma Padova - Italy);
Joint Project 2015	Research project entitled “ <i>Phyto-reclamation of landfill leachate: from laboratory analyzes to a clean environment</i> ”. (UniVR – BioSoil Expert srl Rovereto (TN) – Italy), Resulted publication “Fasani E, DalCorso G et al 2019 . doi: 10.1007/s11356-019-04505-7”;
Commissioned Research Contract 2013-2014	Research activity in the field of phytoremediation, evaluating the application of plants for remediation of soil contaminated with heavy metals: “ <i>Analysis of processes responsible for fitness in plant species associated with microorganisms and subjected to environmental stress</i> ”, commissioned by the company BioSoil Expert srl Rovereto (TN) – Italy);
Joint Project 2012	Research project entitled “ <i>Molecular strategies PRO improvement of safe wheat-based foods suitable for GLUTEN-Sensitive people</i> ” (PROGLUTENS). (UniVR - Openfields Parma – Italy);
Joint Project 2011	Research project entitled “ <i>Production of totipotent cell cultures of plant resurrection for applications in the cosmetic industry</i> ”; (UniVR - Laboratorio Fitocosmetico Dott. Furia srl Verona - Italy);
Joint Project 2011	Research project entitled “ <i>Development of an efficient protocol for the micropropagation of the resurrection plant Craterostigma plantagineum, optimization of the dehydration / rehydration, packaging and canning phases</i> ”; (UniVR - Arnoldi Europe srl Bergamo - Italy);
Joint Project 2008	Research project entitled “ <i>Molecular characterization and identification of molecular markers associated with the “low cadmium accumulation” trait in durum wheat</i> ”, (UniVR - Società Produttori Sementi spa Bologna - Italy). Resulted publication “ DalCorso G et al. 2010 Caratterizzazione di linee di grano duro per l'accumulo di metalli pesanti nella cariosside. In La ricerca SIGRAD sul grano duro: un modello per la filiera. pp 89-98 [Edizioni Avenue media]”

UNIVERSITY TEACHING ACTIVITIES

AY 2026/2027	2. Course “ <i>Methods in Molecular Biology and Genetics</i> ” (2 CFU - 16h theory; 3 CFU – 36 h laboratory) - Bachelor's degree in Biotechnology (L2) University of Verona 1. Course “ <i>Genetics and biotechnology of no-food crops</i> ” (6 CFU - 36h theory – 12h lab) - Master's degree in Biotechnology for Bioresources and Sustainable Development (LM8) - University of Verona
AY 2025/2026	3. Course “ <i>Introduction to Genetics and Breeding of Plants</i> ” (3 CFU – 30h) – Bachelor's degree in Sustainable Agricultural System (L25) – UNIVERSITY OF BRESCIA 2. Course “ <i>Molecular Cell Biology and Biotechnological Applications</i> ” (1 CFU - 12h lab) - Master's degree in Agri-Food Biotechnology (LM7) - UNIVERSITY OF VERONA

	1. Course "Genetics and biotechnology of no-food crops" (6 CFU - 36h theory – 12h lab) - Master's degree in Biotechnology for Bioresources and Sustainable Development (LM8) - UNIVERSITY OF VERONA
AY 2024/2025	3. Borrowed Course "<i>Introduction to Genetics and Breeding of Plants</i>" (3 CFU – 30h) "<i>Plant Breeding and Genetics</i>" (3CFU – 30h) – Bachelor's degree in Sustainable Agricultural System (L25) – UNIVERSITY OF BRESCIA
	2. Course "<i>Molecular Cell Biology and Biotechnological Applications</i>" (1 CFU - 12h laboratory) - Master's degree in Agri-Food Biotechnology (LM7) - UNIVERSITY OF VERONA
	1. Course "<i>Genetics and biotechnology of no-food crops</i>" (6 CFU - 48h) - Master's degree in Biotechnology for Bioresources and Sustainable Development (LM8) - UNIVERSITY OF VERONA
AY 2023/2024	2. Course "<i>Methods in Molecular Biology and Genetics</i>" (2 CFU - 16h theory; 3 CFU – 36 h laboratory) - Bachelor's degree in Biotechnology (L2) UNIVERSITY OF VERONA
	1. Course "<i>Genetics and biotechnology of no-food crops</i>" (6 CFU - 48h) - Master's degree in Biotechnology for Bioresources and Sustainable Development (LM8) - UNIVERSITY OF VERONA
AY 2022/2023	3. Course "<i>Plant genetics and breeding</i>" (1 CFU - 12h - laboratory) - Bachelor's degree in Viticultural and Oenological Science and Technology (L25) - UNIVERSITY OF VERONA
	2. Course "<i>Genetics and biotechnology of no-food crops</i>" (6 CFU - 48h) - Master's degree in Biotechnology for Bioresources and Sustainable Development (LM8) - UNIVERSITY OF VERONA
	1. Course "<i>Plant breeding and Genetics</i>" (3 CFU – 30h) – Bachelor's degree in Sustainable Agricultural System (L25) – UNIVERSITY OF BRESCIA
AY 2021/2022	5. Course "<i>Methods in Molecular Biology and Genetics</i>" (1 CFU – 12h – laboratory) - Bachelor's degree in Biotechnology (L2) - UNIVERSITY OF VERONA
	4. Course "<i>Plant breeding and Genetics</i>" (3 CFU – 30h) – Bachelor's degree in Sustainable Agricultural System (L25) – UNIVERSITY OF BRESCIA
	3. Course "<i>Genetics and biotechnology of no-food crops</i>" (6 CFU – 48h) - Master's degree in Biotechnology for Bioresources and Sustainable Development (LM8) - UNIVERSITY OF VERONA
	2. Course "<i>Genetics and plant breeding</i>" (1 CFU – 12h - laboratory) - Bachelor's degree in Viticultural and Oenological Science and Technology (L25) - UNIVERSITY OF VERONA
	1. Course "<i>Biotechnologie vegetali: applicazioni non alimentari delle piante e il contributo dell'ingegneria genetica</i>" (1 CFU – 8h) –Tandem Project 2021/2022 - UNIVERSITY OF VERONA
AY 2020/2021	Course "<i>Genetics and biotechnology of no-food crops</i>" (6 CFU – 48h) - Master's degree in Biotechnology for Bioresources and Sustainable Development (LM8) - UNIVERSITY OF VERONA
AYs 2010-2018	Co-tutor for laboratory training in <i>Genetics Methodologies</i>, belonging to the course of Microbiology and Genetics Methodologies (Bachelor's degree in Biotechnology L2) – UNIVERSITY OF VERONA
AYs 2016/2017 & 2017/2018	National Project "<i>PLS di Biologia e Biotechnologie</i>" – Editions 2016/2017 and 2017/2018 (theory and practical laboratory in Plant Genetics, 10h) – UNIVERSITY OF VERONA
AY. 2014/2015 & AY 2013/2014	Course "<i>Biology and Didactics of Biology</i>", (theory and laboratory, 3 CFU – 18h) - course PAS A059 - <i>Matematica e Scienze nella Scuola Secondaria di I grado</i> - UNIVERSITY OF VERONA. Tutor for the habilitation thesis of A.L. Frassetto, L. De Luca, E. De Bortoli, M. Giacomini, R. Ballan, M. Tympa

AY 2003/2004	Technical supervisor of the course <i>Plant Tissue & Cell Culture</i> (24h), for the Bachelor's degree in Biotechnology (L2). UNIVERSITY OF VERONA
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PROJECTS AND ACTIVITIES RELATED TO UNIVERSITY'S 3RD MISSION AND PUBLIC ENGAGEMENT

23 May 2026	Participation to the Interno Verde Verona 2026 project " Univr per Interno Verde Giardini Aperti Verona 2026 " - Poster: <i>La biodiversità dei parchi urbani per migliorare la salute degli abitanti della città</i> . Chiostro di San Francesco, Verona - ITALY
22 Apr 2026	Project Giornata della Terra – Seminar "Vivere dove altri non possono: piante iperaccumulatrici e strategie di sopravvivenza nei suoli contaminati" at the Museo di Storia Naturale (Verona), delivered to high school students and citizens.
Jan 2026	Progetto Scoperta - <i>Espressione genica: dal DNA alle applicazioni biotecnologiche DM 934/22</i> (https://www.mur.gov.it/atti-e-normativa/decreto-ministeriale-n-934-del-03-08-2022), orientation courses for high school students (20 h – theory and practical laboratory). University of Verona
Oct 2025	Participation to the " Biotech Week 2025 – Biotecnologie a Verona: ieri pionieri, oggi protagonista dell'innovazione ". Open communication event organised by the Dept. of Biotechnolgy. UNIVERSITY OF VERONA
May 2025	Participation to the Interno Verde Verona 2025 project "20 minuti per..." – outreach microtalks by researchers and PhD students from the Department of Biotechnology, 24 May, 2025, Palazzo Liorsi, Verona - ITALY
Jan 2025	Progetto Scoperta - <i>Espressione genica: dal DNA alle applicazioni biotecnologiche DM 934/22</i> (https://www.mur.gov.it/atti-e-normativa/decreto-ministeriale-n-934-del-03-08-2022), orientation courses for high school students (20 h – theory and practical laboratory). UNIVERSITY OF VERONA

SEMINARS AND INVITED LECTURES (CONGRESSES, PHD SCHOOLS AND OTHERS)

2026	Seminar " <i>Plant and Algae phenotypization</i> " at the PhD School for PhD in Molecular, Industrial and Environmental Biotechnologies , 11 February 2026 – University of Verona - ITALY
2025	3. Seminar " <i>Plant and Algae phenotypization</i> " at the PhD School for PhD in Molecular, Industrial and Environmental Biotechnologies, 11 February 2026 – University of Verona - ITALY 2. Oral presentation " <i>Metal Interactions in the Ni Hyperaccumulating Population of Noccaea caerulescens - Monte Prinzera</i> " (Dal Corso G et al.) – 1 st PlantMetals society annual conference , 9 -12 September 2025, České Budejovice – CZECH REPUBLIC
2022	1. Invited Seminar "Phytoremediation, Applying plants to decontaminate polluted environments" at the PhD Summer School organised by the University of Padova – Why do we study plants – 3 -11 July 2025, Padova - ITALY 4. Oral presentation " <i>DNA methylation in the hyperaccumulator Noccaea caerulescens "Ganges" prevents ROS damages thus increasing Cd hypertolerance</i> " (DalCorso G et al) at the PlantMetals Conference and MC Meeting of the COST Action CA19116 , 30 August – 2 September, 2022, Middle East Technical University, Ankara – TURKEY (ISBN: 978-625-00-9037-4) 3. Oral presentation " <i>The involvement of DNA methylation in enhancing heavy metal hypertolerance</i> " (DalCorso G et al) at the LXV SIGA annual congress , 6-9 September 2022, Piacenza – ITALY (ISBN: 978-88-944843-3-5) 2. Invited Lecture " <i>How plants cope with metal stress: from exclusion to hyperaccumulation</i> " for the Course: PLANT STRESS PHYSIOLOGY, hold within the

	project RESIST, 21 April 2022, Center of Plant Systems Biology and Biotechnology (CPSBB), BULGARIA 1. Lecture "<i>Genome Inte(g)ra(c)tion: the Plant Cell</i>", PhD school in Biotechnology, 11 February 2022, University of Verona - ITALY
2021	2. Oral presentation for poster discussion "<i>Comparative analysis between Arabidopsis thaliana and the metal hyperaccumulator Arabidopsis halleri identifies micro-RNA associated with nutrient homeostasis, development and stress response</i>" (DalCorso G et al), LXIV SIGA annual congress, 14/16 September, 2021, ONLINE 1. Lecturer of the module "<i>In vitro cultures and plant regeneration</i>" during the theoretical-practical SIGA course "Assisted Evolution Technologies: CRISPR/Cas9 in agricultural plants", held at the Department of Biotechnology of the University of Verona (ITALY) - 31 August – 3 September, 2021
2018	Oral presentation "<i>The Arabidopsis thaliana transcription factor MYB59 regulates calcium signaling during plant growth and stress response</i>" (Fasani E, DalCorso G, Costa A, Zenoni S, Furini A), LXII SIGA annual congress, 25-28 September 2018, Verona, ITALY (ISBN 978-88-904570-8-1) – DalCorso has presented this work.
2011	Invited Lecture "<i>Epigenetica</i>" during the Molecular Biology Course organized by the PhD school - Scuola di dottorato in scienze della vita e della salute, 26 September 2011, University of Verona, ITALY
2009	Invited Lecture "<i>L'utilizzo di piante modificate geneticamente per il fitorimedio di suoli contaminati</i>" at the National School "Trattamenti naturali di depurazione: l'uso delle piante per la riqualificazione dei suoli ed il miglioramento della qualità delle acqua", 26-29 October, 2009, Florence (ITALY) (in substitution of Prof. A. Furini)
2007	Invited Lecture "<i>PPP7: a novel component of cyclic electron flow around PSI</i>". SFB Meeting, 29-30 November 2007, Ludwig-Maximilians-Universität München (GERMANY)

SUPERVISION OF STUDENTS

Dr. DalCorso, as tutor or co-tutor, has followed more than 20 Ph.D. students and bachelor and master thesis students during their internships in the laboratory and contributed to developing the projects and interpreting the experimental results of the PhD students who have worked in the lab.

PhD thesis

2. Tutor of Emma Ribul Moro PhD – 42° ciclo PhD in Molecular, Industrial and Environmental Biotechnologies – University of Verona, Italy
1. Co-tutor of D. Villa, PhD – 40° ciclo PhD in Molecular, Industrial and Environmental Biotechnologies – University of Verona, Italy

Bachelor and Master Thesis Tutor (Docente Relatore)

11. S. Baroldi: *Analisi dell'efficacia di biostimolanti derivanti da scarti di vinificazione su Solanum lycopersicum in risposta a stress salino*. Laurea in Sistemi Agricoli Sostenibili (L25), AA 2024/2025, Università di Brescia
10. E. Bovo: *Validazione di marcatori molecolari da utilizzare per il miglioramento genetico di cipolla*. Laurea magistrale in Biotechnologie Agroalimentari (LM7), AA 2024/2025
9. S. Cardin: *La chinasi atipica ABC1K2 è coinvolta nella risposta allo stress e nella germinazione in Arabidopsis thaliana*. Corso di laurea in Biotechnologie per le Biorisorse e lo Sviluppo Sostenibile (LM8), AA 2024/2025
8. A. Limonta: *Integrative analysis of physiological, morphological, and gene expression responses to biostimulants in hydroponically grown Solanum lycopersicum cv. Micro-Tom under Salt Stress*. Corso di laurea magistrale in Biotechnologie per le Biorisorse e lo Sviluppo Ecosostenibile (LM8), AA 2024/2025

7. G. Carlini. *Valutazione del grado di resistenza ad Alternaria spp tramite biosaggio in linee di pomodoro da Industria*. Corso di laurea in Biotecnologie (L2), AA 2023/2024
6. Z. Syed Kazmi. *Applicazione di due strategie di assemblaggio per la creazione di costrutti CRISPR-Cas9 per il knock-out genetico in Arabidopsis thaliana*. Corso di laurea in Biotecnologie (L2), AA 2023/2024
5. E. D'Iseppi: *Studio del ruolo del gene candidato ACP4 nella Regolazione della morte cellulare ipersensibile in Arabidopsis thaliana*. Corso di laurea magistrale in Biotecnologie per le Biorisorse e lo Sviluppo Ecosostenibile (LM8), AA 2022/2023
4. M. Dolfini: *Caratterizzazione del gene Abc1K2 in Arabidopsis thaliana*. Corso di laurea magistrale in Biotecnologie per le Biorisorse e lo Sviluppo Ecosostenibile (LM8), AA 2021/2022
3. C. Bonomo: *Analisi di espressione di trasportatori di metalli nella specie Noccaea caerulea*. Corso di Laurea in Biotecnologie (L2), AA 2021/2022
2. E.G. Di Leo: *Valutazione della relazione tra iperaccumulo di Ni e stress abiotico in Noccaea caerulea*. Corso di laurea magistrale in Biotecnologie per le Biorisorse e lo Sviluppo Ecosostenibile (LM8), AA 2021/2022
1. G. Spirito: *Studio delle forme del gene MTP1 in Noccaea caerulea ecotipo Monte Prinzer*. Corso di Laurea in Biotecnologie (L2), AA 2020/2021

Bachelor and Master Thesis Co-tutor (Docente Correlatore)

14. S. Ruffini: *Mitigazione dello stress salino in pomodoro mediante l'impiego di biostimolanti*. Laurea in Biotecnologie [L2]. AA. 2024/2025
13. E. Zanolla: *Analisi del ruolo del gene candidato ACP4 nel processo di morte cellulare ipersensibile in Arabidopsis thaliana*. Corso di Laurea Triennale in Biotecnologie, AA 2022/2023
12. A. Secondini: *Effetto dell'espressione del gene ZRC1 di Saccharomyces cerevisiae in Arabidopsis thaliana e Populus alba (cv. Villafranca) in risposta a cadmio e zinco*. Corso di Laurea Magistrale in Biotecnologie Agro-Alimentari, AA 2018/2019
11. M. Paloschi: *Studio dell'espressione genica del gene MYB59 in Arabidopsis halleri*. – Corso di Laurea Triennale in Biotecnologie, AA 2016/2017.
10. A. Cuccurullo: *Studio dell'effetto del Cadmio sull'espressione di geni indotti da stress idrico in specie di Resurrection Plants* – Corso di Laurea in Biotecnologie, AA 2014/2015;
9. A. S. Finocchiaro: *Studio del promotore pHMA3 di Arabidopsis halleri* – Corso di Laurea in Biotecnologie, AA 2014/2015;
8. L. Veghini: *Analisi funzionale del promotore di HMA3 di Arabidopsis halleri tramite mutagenesi sito-diretta* – Corso di Laurea in Biotecnologie, AA 2014/2015;
7. L. Allari: *Complementazione funzionale di un mutante, con deficit respiratorio, con la proteina di Arabidopsis thaliana AtSIA1* - Corso di Laurea in Biotecnologie, A.A. 2013/2014;
6. S. Piasentin: *Studio delle proteine di membrana ZIP6 e ZIP9 di Arabidopsis thaliana* - Corso di Laurea Magistrale in Biotecnologie Agro-Alimentari, A.A. 2011/2012;
5. S. Negri: *Functional characterization of two Zip proteins involved in metal accumulation in Arabidopsis thaliana* - Corso di Laurea Magistrale in Biotecnologie Agro-Alimentari, A.A. 2012/2013;
4. A. Tosi: *Trasformazione di Nicotiana tabacum con i geni CzcA e CzcB del sistema di trasporto CzcCBA di Pseudomonas putida e verifica della risposta al trattamento con il cadmio* - Corso di Laurea in Biotecnologie, A.A. 2010-2011;

3. P. Berti: *Studio del fattore di trascrizione AtMYB48/59 di Arabidopsis thaliana: - identificazione ed analisi del doppio mutante AtMYB48-AtMyb59 – espressione eterologa della proteina AtMYB59 in Escherichia coli per preparazione di anticorpi* - Corso di Laurea in Biotecnologie Agro-Industriali, A.A. 2009-2010;
2. G. Livorno: *Studio dei geni β CA1 e At5g22580 potenzialmente coinvolti nell'accumulo di cadmio in Arabidopsis thaliana e nella specie iperaccumulatrice Arabidopsis halleri* - Corso di Laurea Specialistica in Biotecnologie Agro-Industriali, A.A. 2007-2008;
1. A. Pavoni: *Studio dei geni VSP2 e FIB in risposta al cadmio* - Corso di Laurea Specialistica in Biotecnologie Agro-Industriali, A.A. 2007-2008;

EDITORIAL ACTIVITIES

2026	Contribution to Chapter 3 in " <i>Linee guida per la valutazione della biodiversità nella pianificazione urbanistica</i> " Amatucchi A, Bertolazzi A, Carletti P, DalCorso G, Maienza A, Massetti L, Pandolfini T, Tiboni M, Ventura V, Zani C. Grafo-Igb Group ed. ISBN: 978-8854931183
Since June 2025	Editorial Board Member for BMC PLANT BIOLOGY (https://bmcplantbiol.biomedcentral.com/about/editorial-board)
Since Feb 2024	Section Board Member for AGRONOMY (https://www.mdpi.com/journal/agronomy/editors?search=dalcorso)
2024	2. Invited Editorial entitled Epigenetics of Heavy Metal Stress and Response in Plants. Giannelli G, Fasani E, DalCorso G. FRONTIERS IN BIOSCIENCE (Schol Ed) 2024, 16(2), 13. https://doi.org/10.31083/j.fbs1602013 1. Invited as Review Editor on the Editorial Board of PLANT EPIGENETICS (specialty section of Frontiers in Epigenetics and Epigenomics) - https://www.frontiersin.org/journals/epigenetics-and-epigenomics/sections/plant-epigenetics/editors
2023	Guest Editor , together with Gangrong Shi, of the Special Issue " <i>Heavy Metal Accumulation and Detoxification in Plants</i> " published on PLANTS, belonging to the section "Plant Physiology and Metabolism" – submission deadline 31 July, 2023 - https://www.mdpi.com/journal/plants/special_issues/93B7O6U15W
2021 - 2022	2. Guest Editor for the Special Issue " <i>Biofortification and phytoremediation</i> " published on FRONTIERS IN BIOSCIENCE-SCHOLAR - submission deadline April, 2022 - https://www.imrpess.com/journal/FBS/special_issues/1453196816484323330 1. Guest Editor for the Special Issue " <i>Metal Pollution in the Environment</i> " published on ADVANCES IN ENVIRONMENTAL AND ENGINEERING RESEARCH – submission deadline April, 2022 - https://www.lidsen.com/journals/aeer/aeer-special-issues/metal-pollu-environ
since 2020	Member of the Reviewer Board for <i>Plants</i> (ISSN: 2223-7747)
since April 2021	Member of the Editorial Board for <i>Frontiers in Bioscience-Scholar</i>
2015-2018	Academic Editor for <i>British Biotechnology Journal</i>
2014	Guest Editor for the Research Topic " <i>Environmental Phytoremediation: Plants and Microorganisms at Work</i> " published on <i>Frontiers in Plant Science</i> - 29/11/2013 - https://www.frontiersin.org/research-topics/2489/environmental-phytoremediation-plants-and-microorganisms-at-work
2014	Contribution to Chapter 4 " <i>Le biotecnologie ambientali</i> ". In <i>Biotecnologie</i> , pp 109-121, 2014, Ed. Pagano, Kreuzer, Massey - Scienze Zanichelli
2012	Author of the chapter " <i>Heavy Metal toxicity in plants</i> " in <i>Plants and Heavy Metals</i> . pp 1-25, 2012, Springer briefs in Molecular Science – Springer

2010	Author of the chapter “ <i>Caratterizzazione di linee di grano duro per l'accumulo di metalli pesanti nella cariosside</i> ” in <i>La ricerca SIGRAD sul grano duro: un modello per la filiera</i> . pp 89-98, 2010, Edizioni Avenue media
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CONGRESS ORGANIZATION

2018	Member of the local organizing committee for the national LXII annual SIGA congress - 25-28 September 2018 – Verona (Italy)
2008	Member of the local organizing committee for the international COST859 congress - 5-6 June 2008 – Verona (Italy)

PRIZES, SCIENTIFIC ACTIVITY RECOGNITIONS AND MEMBERSHIPS IN ACTIONS AND SOCIETIES

Sept 2025	Included in the 2025 edition of the prestigious World's Top 2% Scientists ranking, produced by Stanford University in collaboration with Elsevier (https://topscinet.com/)
July 2025	Project evaluator for the UK Research and Innovation (UKRI) – commissioned evaluation of research proposals (n. 1 projects evaluated in 2025)
June 2025	Project evaluator for the National Science Centre Poland – commissioned evaluation of research proposals (n. 1 projects evaluated in 2025)
April -May 2025	Project evaluator of proposals submitted to the French National Research Agency (ANR) in the frame of the <i>Appel à projets générique 2025</i> (n. 1 project evaluated in 2025)
Since Jan 2025	Member of the PlantMetal Society – <i>Trace metal metabolism in plants</i> (https://plantmetals.net/plantmetals-members.html)
Since Feb 2024	Member and recording Secretary of the Faculty Board of the PhD program (40, 41, 42 cycle) in <i>Molecular, Industrial and Environmental Biotechnologies</i> (corso di dottorato in Biotechnologie Molecolari, Industriali ed Ambientali) – University of Verona, Italy
2023	Project evaluator for the National Science Centre Poland – commissioned evaluation of research proposals (n. 2 projects evaluated in 2023)
2022	Member of the Management Committee for the COST Action CA19116 , <i>Trace metal metabolism in plants</i> (PLANTMETALS) (June 2022 - September 2022)
2021	ASN 07/E1 - CHIMICA AGRARIA, GENETICA AGRARIA E PEDOLOGIA (II fascia) (see above)
Oct 2020 - Oct 2024	Member of the COST Action CA19116 “TRACE METAL METABOLISM IN PLANTS” https://www.cost.eu/actions/CA19116/#tabs+Name:Working%20Groups%20and%20Membership
2014	ASN 07/E1 - CHIMICA AGRARIA, GENETICA AGRARIA E PEDOLOGIA (II fascia) ASN 05/A2 - FISIOLOGIA VEGETALE (II fascia)
Since 2008	Member of the Italian Society of Plant Genetics (SIGA)
2008	FÖRDERPREIS 2008 - Prize received from the Ludwig-Maximilians-Universität, 536th Stiftungsfest, 27 June 2008 (München, Germany): Ph.D. thesis

REVIEWER ACTIVITIES

Dr. DalCorso has been reviewer for a variety of Journals, herein listed

BMC Research notes / Environmental and Experimental Botany / Planta / Plos One/ Frontiers in Plant Science / Plant, Cell & Environment / Plant Cell Reports / New Phytologist / Acta Physiologiae Plantarum / Biological Trace Element Research / BMC Genomics / Botany / Environmental Science and Pollution Research / Environmental Science & Technology / Journal of Plant Biology & Soil Health / Metallomics / Molecular Biotechnology / Plant and Soil / Plant Growth Regulation / Plant Physiology and

LANGUAGES KNOWLEDGE

OTHER LANGUAGES

- Reading
- Writing
- Oral Expression

Italian [Mother tongue]

ENGLISH	GERMAN	SPANISH
Excellent	Elementary	Elementary
Very Good	Elementary	Elementary
Very Good	Elementary	Elementary

PUBLICATIONS

Dr. DalCorso is co-author of **42 Scopus-indexed papers**, published in international peer-reviewed journals.

Scopus h index = 25

44. Tiboni M, Bertolazzi A, Nota M, Amatucci A, Carletti P, **DalCorso G et al. 2026**. The URBioPark Project: Bridging Biodiversity, Urban Public Spaces Quality and Public Health. In: Tira, M., Tiboni, M., Maternini, G., Pezzagno, M. (eds) Smart Mobility and Shared Urban Spaces. ICLWC 2025. Lecture Notes in Civil Engineering, vol 814. Springer
43. Maienza A, Massetti L, Carletti P, **DalCorso G et al. 2026**. Biodiversity and Ecosystem Services of Urban Parks: The Multidisciplinary Approach of the URBioPark Project. In: Tira, M., Tiboni, M., Maternini, G., Pezzagno, M. (eds) Smart Mobility and Shared Urban Spaces. ICLWC 2025. Lecture Notes in Civil Engineering, vol 814. Springer
42. Fasani E, Cardin S, Commisso M, Gecchele E, De Benedictis M, Di Sansebastiano GP, Bellin D, Furini A and **DalCorso G. 2025** ABC1K2 is involved in stress response and secondary metabolism during seed development in *Arabidopsis thaliana*. PLANT CELL REPORTS, 44, 249. <https://doi.org/10.1007/s00299-025-03645-0>
41. Fasani E, Franceschi C, Furini A, **DalCorso G. 2025** Effect of biostimulants combined with foliar fertilization on the nutritional value of wheat grains. BMC PLANT BIOLOGY, 25: 736. <https://doi.org/10.1186/s12870-025-06804-3>
40. Gannelli G, Fasani E, **DalCorso G. 2024** Epigenetics of Heavy Metal Stress and Response in Plants. FRONTIERS IN BIOSCIENCE (Scholar Edition) 16(2), 13. <https://doi.org/10.31083/j.fbs1602013>
39. Fasani E, Zamboni A, Sorio D, Furini A, **DalCorso G. 2023** Metal Interactions in the Ni Hyperaccumulating Population of *Noccaea caerulea* Monte Prinzera. BIOLOGY, 12, 1537. <https://doi.org/10.3390/biology12121537>
38. Fasani E, Giannelli G, Varotto S, Visioli G, Bellin D, Furini A, **DalCorso G. 2023** Epigenetic Control of Plant Response to Heavy Metals. PLANTS, 12, 3195. <https://doi.org/10.3390/plants12183195>
37. Broccanello C, Bellin D, **DalCorso G**, Furini A, Taranto F. **2023** Genetic approaches to exploit landraces for improvement of *Triticum turgidum* ssp. durum in the age of climate change. FRONTIERS IN PLANT SCIENCE, 14: 1101271; doi: 10.3389/fpls.2023.1101271
36. Galati S*, **DalCorso G***, Furini A, Fragni R, Maccari C, Mozzoni P, Giannelli G, Buschini A, Visioli G. **2023** DNA methylation is enhanced during Cd hyperaccumulation in *Noccaea caerulea* ecotype Ganges. ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 30(10):26178-26190; <https://doi.org/10.1007/s11356-022-23983-w>.

* The authors are considered first co-authors

35. Fasani E, Li M, Varotto C, Furini A, **DalCorso G** 2022 Metal Detoxification in Land Plants: From Bryophytes to Vascular Plants. State of the Art and Opportunities. *PLANTS*, 11, 237; <https://doi.org/10.3390/plants11030237>
34. Fasani E*, **DalCorso G***, Zorzi G, Agrimonti C, Fragni R, Visioli G, Furini A. 2021 Overexpression of ZNT1 and NRAMP4 from the Ni hyperaccumulator *Noccaea caerulea* population Monte Prinzera in *Arabidopsis thaliana* perturbs Fe, Mn and Ni accumulation. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCE*, 22, 11896; <https://doi.org/10.3390/ijms222111896>.
- * *The authors contributed equally to the work*
33. Fasani E, **DalCorso G**, Zorzi G, Vitulo N, Furini A 2021 Comparative analysis identifies micro-RNA associated with nutrient homeostasis, development and stress response in *Arabidopsis thaliana* upon high Zn and metal hyperaccumulator *Arabidopsis halleri*. *PHYSIOLOGIA PLANTARUM*, 1–15; <https://doi.org/10.1111/ppl.13488>
32. Fasani E, **DalCorso G**, Furini A 2021 MYB59 transcription factor behaves differently in metallicolous and non-metallicolous populations of *Arabidopsis halleri*. *FUNCTIONAL PLANT BIOLOGY*. May 11; doi: 10.1071/FP20356
31. **DalCorso G.**, Martini F., Fasani E. et al. 2021 Enhancement of Zn tolerance and accumulation in plants mediated by the expression of *Saccharomyces cerevisiae* vacuolar transporter ZRC1. *PLANTA* 253, 117; <https://doi.org/10.1007/s00425-021-03634-z>
30. Galati S, Gulli M, Giannelli G, Furini A, **DalCorso G**, Fragni R, Buschini A, Visioli G. 2020 Heavy metals modulate DNA compaction and methylation at CpG sites in the metal hyperaccumulator *Arabidopsis halleri*. *ENVIRONMENTAL AND MOLECULAR MUTAGENESIS*, 2021, 62(2), 133–142
29. Manara A, Fasani E, Furini A and **DalCorso G**. 2020 Evolution of the metal hyperaccumulation and hypertolerance traits. *PLANT CELL AND ENVIRONMENT*, 2020, 43(12), 2969–2986; <https://doi.org/10.1111/pce.13821>
28. De Caroli M, Furini A, **DalCorso G**, Rojas M, Di Sansebastiano, GP. 2020 Endomembrane Reorganization Induced by Heavy Metals. *PLANTS* 9, 482
27. Manara A, Fasani E, Molesini B, **DalCorso G**, Pennisi F, Pandolfini T, Furini A. 2020 The tomato metalloprotease inhibitor I, which interacts with a heavy metal-associated isoprenylated protein, is implicated in plant response to cadmium. *MOLECULES* 25, 3: 700; <https://doi.org/10.3390/molecules25030700>
26. Fasani E, **DalCorso G**, Furini A. 2019 Combining Folate and Zn Biofortification in Fennel. *HERALD JOURNAL OF FOOD SCIENCE AND NUTRITION* 5: 047; DOI: 10.24966/FSN-1076/100047
25. **DalCorso G** Fasani E, Manara A, Visioli G, Furini A. 2019 Heavy Metal Pollutions: State of the Art and Innovation in Phytoremediation. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* 20, 3412; doi:10.3390/ijms20143412
24. Fasani E*, **DalCorso G***, Zerminiani A, Ferrarese A, Campostrini P, Furini A. 2019 Phytoremediatory efficiency of *Chrysopogon zizanioides* in the treatment of landfill leachate: a case study. *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. 26: 10057-10069; doi: 10.1007/s11356-019-04505-7
- * *The authors contributed equally to the work*
23. Fasani E*, **DalCorso G***, Costa A, Zenoni S, Furini A. 2019 The *Arabidopsis thaliana* transcription factor MYB59 regulates calcium signalling during plant growth and stress response. *PLANT MOLECULAR BIOLOGY*. 99, 517–534
- * *The authors contributed equally to the work*

22. Fasani E, Manara A, Martini F, Furini A, **DalCorso G.** **2018** The potential of genetic engineering of plants for the remediation of soils contaminated with heavy metals. *PLANT CELL AND ENVIRONMENT* 41, 1201-1232
21. Fasani E, **DalCorso G**, Varotto C, Li M, Visioli G, Mattarozzi M and Furini A. **2017** The MTP1 promoters from *Arabidopsis halleri* reveal cis-regulating elements for the evolution of metal tolerance. *NEW PHYTOLOGIST* 214, 1614-1630
20. Nesler A, **DalCorso G**, Fasani E, Manara A, Di Sansebastiano GP, Argese E, Furini A. **2017** Functional components of the bacterial CzcCBA efflux system reduce cadmium uptake and accumulation in transgenic tobacco plants. *NEW BIOTECHNOLOGY* 35, 54-61
19. Manara A*, **DalCorso G*** and Furini A. **2016** The Role of the Atypical Kinases ABC1K7 and ABC1K8 in Absciscic Acid Responses. *FRONTIERS IN PLANT SCIENCE* 7:366; doi: 10.3389/fpls.2016.00366
- * *The authors contributed equally to the work*
18. Furini A, Manara A, **DalCorso G.** **2015** Editorial: Environmental phytoremediation: Plants and microorganisms at work. *FRONTIERS IN PLANT SCIENCE* 6, 520
17. Manara A*, **DalCorso G***, Guzzo F, Furini A. **2015** Loss of the atypical kinases ABC1K7 and ABC1K8 changes the lipid composition of the chloroplast membrane. *PLANT CELL PHYSIOLOGY* 56(6): 1193-204
- * *The authors contributed equally to the work*
16. **DalCorso G**, Manara A, Piasentin S, Furini A. **2014** Nutrient metal elements in plants. *METALLOMICS* 6, 1770-1788
15. Manara A*, **DalCorso G***, Leister D, Jahns P, Baldan B, Furini A. **2014** AtSIA1 and AtOSA1: two Abc1 proteins involved in oxidative stress responses and iron distribution within chloroplasts, *NEW PHYTOLOGIST* 201, 452-465
- * *The authors contributed equally to the work*
14. **DalCorso G**, Fasani E, Furini A. **2013** Recent advances in the analysis of metal hyperaccumulation and hypertolerance in plants using proteomics. *FRONTIERS IN PLANT SCIENCE* 4, article 280; doi: 10.3389/fpls.2013.00280
13. **DalCorso G**, Manara A, Furini A. **2013** An overview of heavy metal challenge in plants: from roots to shoots. *METALLOMICS* 5: 1117-32
12. Manara A*, **DalCorso G***, Baliardini C, Farinati S, Cecconi D and Furini A. **2012** *Pseudomonas putida* response to cadmium: changes in membrane and cytosolic proteomes. *JOURNAL OF PROTEOME RESEARCH* 11: 4169-79
- * *The authors contributed equally to the work*
11. Farinati S*, **DalCorso G***, Panigati M and Furini A. **2011** Interaction between selected bacterial strains and *Arabidopsis halleri* modulates shoot proteome and cadmium and zinc accumulation. *THE JOURNAL OF EXPERIMENTAL BOTANY* 62: 3433-3447
- * *The authors contributed equally to the work*
10. Maistri S, **DalCorso G**, Vicentini V and Furini A. **2011** Cadmium affects the expression of ELF4, a circadian clock gene in *Arabidopsis*. *ENVIRONMENTAL AND EXPERIMENTAL BOTANY* 72: 115-122
9. **DalCorso G**, Farinati S and Furini A. **2010** Regulatory networks of cadmium stress in plants. *PLANT SIGNALLING AND BEHAVIOUR* 5: 663-667
8. Farinati S, **DalCorso G**, Varotto S and Furini A. **2010** The *Brassica juncea* BjCdR15, an ortholog of *Arabidopsis* TGA3, is a regulator of cadmium uptake, transport and

accumulation in shoots and confers cadmium tolerance in transgenic plants. NEW PHYTOLOGIST 185: 964-978

7. Farinati S, **DalCorso G**, Bona E, Corbella M, Lampis S, Cecconi D, Polati R, Berta G, Vallini G and Furini A. **2009** Proteomic analysis of *Arabidopsis halleri* shoots in response to the heavy metals cadmium and zinc and rhizosphere microorganisms. PROTEOMICS 21: 4837-4850
6. **DalCorso G**, Farinati S, Maistri S and Furini A. **2008** How plants cope with Cadmium: staking all on metabolism and gene expression. JOURNAL OF INTEGRATIVE PLANT BIOLOGY 50: 1268-1280
5. **DalCorso G**, Pesaresi P, Masiero S, Aseeva E, Schünemann D, Finazzi G, Joliot P, Barbato R and Leister D. **2008** A complex of PGRL1 and PGR5 is involved in the switch between linear and ferredoxin-dependent cyclic electron flow. CELL 132: 273-285
4. **DalCorso G**: Characterization of the Novel Photosynthetic Protein PPP7 involved in Cyclic Electron Flow around PSI. Fakultät für Biologie, LMU München, 2007 – **PhD thesis** - <https://edoc.ub.uni-muenchen.de/7823/>
3. Noutsos C, Kleine T, Armbruster U, **DalCorso G** and Leister D. **2007** Nuclear insertions of organellar DNA can create novel patches of functional exon sequences. TRENDS IN GENETICS 12: 597-601
2. **DalCorso G**, Borgato L and Furini A. **2005** *In vitro* plant regeneration of the heavy metal tolerant and hyperaccumulator *Arabidopsis halleri* (Brassicaceae). PLANT CELL, TISSUE AND ORGAN CULTURE 82: 267-270
1. Fusco N, Micheletto L, **DalCorso G**, Borgato L and Furini A. **2005** Identification of Cadmium-regulated genes by cDNA-AFLP in the heavy metal accumulator *Brassica juncea*. JOURNAL OF EXPERIMENTAL BOTANY 56: 3017-3027

Dichiaro che tutto quanto dichiarato nel presente curriculum corrisponde a verità e che le dichiarazioni rese sono rilasciate ai sensi degli articoli 46 e 47 del D.P.R. 445/2000

Verona, Sept 2026

Giovanni DalCorso
