

Dr. Gianluca Allegro
Curriculum Vitae et Studiorum

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STUDIES

PhD in Agricultural, Environmental and Food Sciences (29th cycle), awarded by the University of Bologna on 21 April 2017.

Dissertation title: “The role of different cultural practices on polyphenols evolution during ripening and on wine taste in black and white *Vitis vinifera* varieties under a global warming scenario.”

Supervisor: Prof. Ilaria Filippetti.

Bachelor’s Degree in Viticulture and Oenology, awarded by the University of Bologna on 25 March 2011. Final grade: 110/110.

Thesis title: “Clonal selection of the Sangiovese cultivar (*Vitis vinifera* L.): research design and preliminary results.”

Supervisor: Prof. Ilaria Filippetti.

Five-year Degree in Agricultural Sciences and Technologies, awarded by the University of Bologna on 10 December 2003. Final grade: 106/110.

Thesis title: “Bio-agronomic evaluation of new *Vitis vinifera* crosses.”

Supervisor: Prof. Cesare Intrieri.

Co-supervisor: Prof. Ilaria Filippetti.

PROFESSIONAL EXPERIENCES

Since 1 March 2025: Associate Professor at the Department of Biotechnology, University of Verona. Scientific Disciplinary Sector: AGRI-03/A (General Arboriculture and Tree Crops).

Academic Recruitment Field: 07/AGRI-03 (Sciences and Technologies of Tree and Forest Systems).

From 1 February 2022 to 31 January 2025: Fixed-term Assistant Professor (RTD-A, junior) at the Department of Agricultural and Food Sciences (DISTAL), University of Bologna.

Scientific Disciplinary Sector: AGRI-03/A (General Arboriculture and Tree Crops).

Academic Recruitment Field: 07/AGRI-03 (Sciences and Technologies of Tree and Forest Systems).

From 1 October 2023 to 28 October 2023: Visiting Professor at the Department of Agrobiochemistry and Food Security, Samarkand State University (Uzbekistan), delivering the course “Viticulture” (60 hours) to fourth-year students of the Master’s degree programme in “Fruit and Grape Science.”

From 15 January 2021 to 31 December 2021: Postdoc research Fellow at the Department of Agricultural and Food Sciences (DISTAL), University of Bologna. Activities included the establishment of an experimental vineyard supported by the Union of Consortia of the Via Emilia, and analyses of phenolic maturity in Cabernet Sauvignon and Merlot grapes.

From 1 October 2020 to 30 September 2021: Adjunct Professor for the module “General Viticulture” (6 ECTS credits) within the Bachelor Degree Programme in Viticultural and Oenological Sciences and Technologies, University of Verona.

From 15 November 2018 to 14 January 2021: Postdoc research Fellow (Supervisor: Prof. Ilaria Filippetti) at the Department of Agricultural and Food Sciences, University of Bologna.

Research activities were carried out in the project In.Mo.Me.Vi. (Innovative Models for Mechanised and Sustainable Vineyard Management), funded by the Emilia-Romagna Rural Development Programme (RDP) 2014–2020. The project included variable-rate fertilisation trials in a Trebbiano romagnolo vineyard and experiments assessing the susceptibility of different Emilia-Romagna grapevine varieties to the mechanisation of major vineyard operations.

From 1 January 2017 to 31 October 2018: Research Fellow (Supervisor: Prof. Ilaria Filippetti) at the Interdepartmental Centre for Industrial Agri-Food Research, University of Bologna.

Research activities were carried out within the GENBACCA project, funded by the Emilia-Romagna ERDF Regional Operational Programme (POR-FESR) 2014–2020. The project involved the agronomic and productive validation of new wine and table grape genotypes tolerant to biotic stresses.

From 1 January 2014 to 31 December 2016: PhD in Agricultural, Environmental and Food Sciences (Supervisor: Prof. Ilaria Filippetti) at the Department of Agricultural Sciences, University of Bologna.

Dissertation title: “The role of different cultural practices on polyphenol evolution during ripening and on wine taste in black and white *Vitis vinifera* L. varieties under a global warming scenario.”

Doctoral research focused on the effects of climate change in vineyards and the evaluation of innovative cultural practices aimed at adapting viticulture to changing environmental conditions, with particular emphasis on their impact on polyphenolic composition.

From 1 February 2016 to 13 May 2016: Visiting Researcher (Marco Polo fellowship) at the Department of Food Science and Technology, University of Murcia (Spain).

Under the supervision of Prof. Encarna Gómez Plaza, research focused on the impact of changes in flavonoids and berry cell wall composition on phenolic maturity.

From 1 January 2013 to 31 December 2013: Research Fellow pursuant to Article 22 of Law 240/2010 (Supervisor: Prof. Ilaria Filippetti) at the Department of Agricultural Sciences, University of Bologna.

Research activities were carried out in the PRIN 2009 project “Innovative canopy management techniques, grape quality and study of related genetic determinants.” The project focused on evaluating innovative canopy management practices to synchronise sugar and phenolic ripening in Sangiovese grapes under current climate change conditions.

From 1 January 2012 to 31 December 2012: Research Fellow (Supervisor: Prof. Ilaria Filippetti) at the Interdepartmental Centre for Viticulture and Oenology Research, University of Bologna.

Research activities were carried out as part of the project “Enhancement of the Trebbiano romagnolo grapevine” (funded by the Centre for Plant Production Research) and focused on the evaluation of the agronomic performance of the Trebbiano romagnolo cultivar under different training systems and levels of winter pruning mechanisation.

From 1 January 2010 to 31 December 2011: Research Fellow (Supervisor: Prof. Ilaria Filippetti) at the Department of Tree Cultures, University of Bologna.

Research activities focused on the clonal selection of seven Sangiovese biotypes identified at a historic winery in the Montalcino area (Siena, Italy). This work led to the registration of two new Sangiovese clones (FdB CAB M17 and FdB CAB M43) in the Italian National Register of Grapevine Varieties.

From 1 January 2008 to 31 December 2009: Research Fellow (Supervisor: Prof. Cesare Intrieri) at the Department of Arboriculture, University of Bologna.

Research activities focused on the evaluation of the physiological and agronomic performance of autochthonous Sangiovese and Sangiovese-like biotypes identified in the Montalcino area (Siena, Italy). This study provided the basis for the subsequent clonal selection of seven Sangiovese biotypes carried out from 2010 onward.

From 1 January 2007 to 31 December 2007: Research Fellow (Supervisor: Prof. Cesare Intrieri) at the Department of Arboriculture, University of Bologna. Activities included agronomic field measurements, laboratory analyses, and data processing in support of the research carried out by the Viticulture group.

From 1 July 2006 to 31 December 2006: Technical Coordinator for the grape and wine production chain at the Centre for Plant Production Research (CRPV), based in Tebano (Ravenna, Italy).

During this period, vitivinicultural experimental activities were managed in collaboration with universities and experimental farms in the Emilia-Romagna region.

Since 18 January 2006: Registered Agronomist, enrolled in the Professional Register of Agronomists and Foresters of the Province of Bologna.

From 1 July 2005 to 30 September 2005: Visiting Researcher at the Department of Viticulture and Enology, California State University, Fresno (CA, USA). Under the supervision of Prof. Robert L. Wample, research activities focused on improving irrigation efficiency in vineyards of California’s Central Valley and on the use of NIR instrumentation to estimate sugar and anthocyanin content in grape berries.

From 2 February 2004 to 30 June 2006: Research Fellow (Supervisor: Prof. Cesare Intrieri) at the Department of Arboriculture, University of Bologna.

RESEARCH TOPICS

- Study of grapevine cultivation adaptability under current climate change conditions.
- Investigation of the physiology of berry ripening processes under abiotic stress conditions.
- Evaluation of cultural practices aimed at aligning technological and phenolic maturity under thermal and radiative stress.
- Study of phenolic maturity and its effects on the sensory characteristics of wines.
- Precision viticulture.
- Evaluation of agronomic practices aimed at improving grape composition and cluster health under non-limiting environmental conditions.
- Assessment of the impact of mechanisation of vineyard practices on plant productivity and grape composition.

PUBLICATIONS

Articles on scientific journals:

- 1) Valentini G., Zanini A., Allegro G., Cataldo E., Moffa A., Casini F., Filippetti I. “Multifunctional irrigation mitigates heat stress, delays sugar accumulation and preserves berry composition in cv. Sangiovese (*Vitis vinifera* L.).” *Frontiers in Plant Sciences*, 2026, 17:1911234. (doi: 10.3389/fpls.2026.1911234).
- 2) Valentini G., Allegro G., Pastore C., Zanini A., Moffa A., Gottardi D., Gomez-Urios C., Patrignani F., Filippetti I. “An automatic cooling system to cope with the thermal–radiative stresses in the Pignoletto white grape”. *Horticulturae* 2025, 11, 1128; (<https://doi.org/10.3390/horticulturae11091128>).
- 3) Bonini P., Gabrielli M., D’Intino L., Filippetti I., Allegro G., Sangiorgio D., Magnanini Poni S. “Vine performance, single-leaf and whole-canopy gas exchange under agrivoltaics cover in Malvasia di Candia aromatica and Cabernet Sauvignon grapevines”. *Australian Journal of Grape and Wine Research*, 2025 (<https://doi.org/10.1155/ajgw/8827979>).
- 4) Valentini G., Allegro G., Pastore C., Chinnici F., Filippetti I. “Optimizing viticulture sustainability through foliar zeolite treatments: an in-depth analysis of their impact on gas exchange, yield, and the composition of Sangiovese grapes and wine”. *Australian Journal of Grape and Wine Research*, 2025 (<https://doi.org/10.1155/ajgw/7719408>).
- 5) Allegro G., Filippetti I., Pastore C., Sangiorgio D., Valentini G., Bortolotti G., Kertész I., Phuong Nguyen L.L., Baranyai L. “Prediction of berry sunburn damage with machine learning: results on grapevine (*Vitis vinifera* L.)”. *Biosystems Engineering*, 2025, 250: 62-67.
- 6) Allegro G., Valentini G., Sangiorgio D., Pastore C., Filippetti I. “Zeolite application and irrigation during ripening reduced berry sunburn damage and yield loss in cv. Sangiovese (*Vitis vinifera* L.)”. *Frontiers in Plant Science*, 2024, 15: 1427366.
- 7) Sangiorgio D., Valentini G., Pastore C., Allegro G., Gottardi D., Patrignani F., Spinelli F., Filippetti I. “A comprehensive study on the effect of foliar mineral treatments on grapevine

- epiphytic microorganisms, flavonoid gene expression, and berry composition”. *OENO One*, 2024, 58, 1-11.
- 8) Valentini G., Allegro G., Pastore C., Sangiorgio D., Noferini M., Muzzi E., Filippetti I. “Use of an automatic fruit-zone cooling system to cope with multiple summer stresses in Sangiovese and Montepulciano grapes”. *Frontiers in Plant Science*, 2024, 15: 1391963.
 - 9) Allegro G., Martelli R., Valentini G., Pastore C., Mazzoleni R., Pezzi F., Filippetti I. “Effects of mechanical winter pruning on vine performances and management costs in a Trebbiano romagnolo vineyard: a five-year study”. *Horticulturae*, 2023, 9, 21.
 - 10) Valentini G., Pastore C., Allegro G., Mazzoleni R., Chinnici F., Filippetti I. “Vine physiology, yield parameters and berry composition of Sangiovese grape under two different canopy shapes and irrigation regimes”. *Agronomy*, 2022, 12: 1967.
 - 11) Baldi E., Polidori G., Germani M., Larocca G.N., Mazzon M., Allegro G., Pastore C., Quartieri M., Marzadori C., Filippetti I., Ciavatta C., Toselli M. “Fertilizer potential of organic-based soil amendments on cv. Sangiovese (*V. vinifera* L.): preliminary results”. *Agronomy*, 2022, 12: 1604.
 - 12) Valentini G., Pastore C., Allegro G., Muzzi E., Seghetti L., Filippetti I. “Application of kaolin and Italian natural chabasite-rich zeolite to mitigate the effect of global warming in *Vitis vinifera* L. cv. Sangiovese”. *Agronomy*, 2021, 11: 1035.
 - 13) Allegro G., Pastore C., Valentini G., Filippetti I. “The evolution of phenolic compounds in *Vitis vinifera* L. red berries during ripening: analysis and role on wine sensory - A review”. *Agronomy*, 2021, 11: 999.
 - 14) Pastore C., Allegro G., Valentini G., Pizziolo A., Battista F., Spinelli F., Filippetti I. “Foliar application of specific yeast derivative enhances anthocyanins accumulation and gene expression in Sangiovese cv (*Vitis vinifera* L.)”. *Scientific reports*, 2020, 10: 11627.
 - 15) Allegro G., Pastore C., Valentini G. and Filippetti I. “Postbudburst hand-finishing of winter spur pruning can delay technological ripening without altering phenolic maturity of Merlot berries”. *Australian Journal of Grape and Wine Research*, 2020, 26: 139-147.
 - 16) Allegro G., Pastore C., Valentini G. and Filippetti I. “Effects of sunlight exposure on flavonol content and wine sensory of the white winegrape Grechetto gentile”. *American Journal of Enology and Viticulture* 2019, 70: 277-285.
 - 17) Valentini G., Allegro G., Pastore C., Colucci E. and Filippetti I. “Post-veraison trimming slow down sugar accumulation without modifying phenolic ripening in Sangiovese vines”. *Journal of the Sciences of Food and Agriculture*, 2019, 99: 1358-1365.
 - 18) Allegro G., Bautista-Ortín AB., Gómez-Plaza E., Pastore C., Valentini G., Filippetti I. “Impact of flavonoid and cell wall material changes on phenolic maturity in cv. Merlot (*Vitis vinifera* L.)”. *American Journal of Enology and Viticulture*, 2018, 69: 417-421.

- 19) Pastore C., Dal Santo S., Zenoni S., Movahed N., Allegro G., Valentini G., Filippetti I. and Tornielli GB. "Whole plant temperature manipulation affects flavonoid metabolism and the transcriptome of grapevine berries". *Frontiers in Plant Science*, 2017, 8: 929.
- 20) Zenoni, S., Dal Santo, S., Tornielli, G.B., D'Inca, E., Filippetti, I., Pastore, C., Allegro, G., Silvestroni, O., Lanari, V., Pisciotta, A., Di Lorenzo, R., Palliotti, A., Tombesi, S., Gatti, M., Poni, S. "Transcriptional responses to pre-flowering leaf defoliation in grapevine berry from different growing sites, years, and genotypes". *Frontiers in Plant Science*, 2017, 8: 630.
- 21) Baldi E., Colucci E., Gioacchini P., Valentini G., Allegro G., Pastore C., Filippetti I., Toselli M. "Effect of post-bloom foliar nitrogen application on vines under two level of soil fertilization in increasing bud fertility of 'Trebbiano Romagnolo' (*Vitis vinifera* L.) vine". *Scientia Horticulturae*, 2017, 218: 117-124.
- 22) Pastore C., Allegro G., Valentini G., Muzzi E., Filippetti I. "Anthocyanin and flavonol composition response to veraison leaf removal on Cabernet Sauvignon, Nero d'Avola, Raboso Piave and Sangiovese *Vitis vinifera* L. cultivars". *Scientia Horticulturae*, 2017, 218: 147-155.
- 23) Intrieri C., Filippetti I., Allegro G., Valentini G., Pastore C., Colucci E. "The effectiveness of basal shoot mechanical leaf removal at the onset of bloom to control crop on cv. Sangiovese (*V. vinifera* L.): report on a three-year trial". *South African Journal of Enology and Viticulture*, 2016, 37: 193-198.
- 24) Allegro G., Pastore C., Valentini G., Muzzi E., Filippetti I. "Influence of berry ripeness on accumulation, composition and extractability of skin and seed flavonoids in cv. Sangiovese (*Vitis vinifera* L.)" *Journal of the Science of Food and Agriculture*, 2016, 96: 4553-4559.
- 25) Movahed N., Pastore C., Cellini A., Allegro G., Valentini G., Zenoni., Cavallini E., D'Inca E., Tornielli G.B., Filippetti I. "The grapevine VviPrx31 peroxidase as a candidate gene involved in anthocyanin degradation in ripening berries under high temperature" *Journal of Plant Research* 2016, 129: 513-526.
- 26) Filippetti I., Movahed N., Allegro G., Valentini G., Pastore E., Colucci E., Intrieri C. "Effect of post-veraison source limitation on the accumulation of sugar, anthocyanins and seed tannins in *Vitis vinifera* cv. Sangiovese berries" *Australian Journal of Grape and Wine Research*, 2015, 21: 90-100.
- 27) Intrieri C., Allegro G., Valentini G., Pastore C., Colucci E., Filippetti I. "Effect of pre-bloom antitranspirant treatments and leaf removal on Sangiovese (*Vitis vinifera* L.) winegrapes" *Vitis*, 2013, 52: 117-124.
- 28) Centinari M., Filippetti I., Baerle T., Allegro G., Valentini G., Poni S. "Cover crop water use in relation to vineyard floor management practices" *American Journal of Enology and Viticulture*, 2013, 65: 522-526.

- 29) Filippetti I., Allegro G., Valentini G., Pastore C., Colucci E. and Intrieri C. “Influence of vigour on vine performance and berry composition of cv. Sangiovese (*Vitis vinifera* L.)” J. Int. Sci. Vigne Vin, 2013, 47: 21-33.
- 30) Pastore C., Zenoni S., Tornelli G., Allegro G., Dal Santo S., Valentini G., Intrieri C., Pezzotti M., Filippetti I. “Increasing source/sink ratio in *Vitis vinifera* (cv. Sangiovese) induces intensive transcriptome reprogramming and modifies berry ripening” BMC Genomics 2011, 12: 631.
- 31) Intrieri C., Filippetti I., Allegro G., Valentini G., Pastore C. and Colucci E. “The semiminimal pruned hedge: a novel mechanized grapevine training system” American Journal of Enology and Viticulture, 2011, 63: 312-318.
- 32) Filippetti I., Allegro G., Valentini G., Pastore C., Poni S., Intrieri C. “Effects of mechanical pre-bloom defoliation on cordon de Royat pruned Sangiovese (*Vitis vinifera* L.) vines” Journal International Science de la Vigne et du Vin, 2011, 45: 19-25.
- 33) Intrieri C., Filippetti I., Allegro G., Centinari M., Poni S. “Early defoliation (hand vs mechanical) for improved crop control and grape composition in Sangiovese (*Vitis vinifera* L.)” Australian Journal of Grape and Wine Research, 2008, 14: 25-32.

Proceedings of international scientific conferences:

- 34) Sangiorgio D., Allegro G., Pastore C., Valentini G., Colucci E., Bortolotti G. and Filippetti I. “Sunburn dynamics: exploring occurrence and evolution on *Vitis vinifera* berries – a case study of ‘Sangiovese’ and ‘Pignoletto’ cultivars”. Proc. V EHC, International Symposium on Robotics, Mechanization and Smart Horticulture – Budapest (Romania), 12-16 May 2024.
- 35) Murtagh B., Slezak F.L., Baranyai L., Allegro G., Filippetti I., Morandi B., Boini A., Manfrini I., Bortolotti G. and Zude-Sasse M. “Mobile app for analysing the heat damage risk in grape and apple fruit”. Proc. V EHC, International Symposium on Robotics, Mechanization and Smart Horticulture – Budapest (Romania), 12-16 May 2024.
- 36) Sangiorgio D., Allegro G., Pastore C., Valentini G., Colucci E. and Filippetti I. “Effects of zeolite application and irrigation on berry sunburn damage and vine performances in ‘Sangiovese’ (*Vitis vinifera* L.)”. Proc. V EHC, International Symposium on Viticulture and Winemaking between Tradition and Innovation – Budapest (Romania), 12-16 May 2024.
- 37) Allegro G., Pastore C., Valentini G., Sangiorgio D., Mazzoleni R., Colucci E., Bortolotti G. Filippetti I. “Assessment of the temperature threshold for the occurrence of sunburn damage in *Vitis vinifera* L. Sangiovese”. Proc. II International Symposium on Precision Management of Orchards and Vineyards – Tatura (Australia), 3-8 December 2023.
- 38) Allegro G., Pastore C., Fontana M., Mazzoleni R., Valentini G., Filippetti I. “New perspectives for some local grapevines of the Emilia-Romagna Region (Italy): from the genetic characterization to the wine production in the current scenario of global warming”. Proc. III International Symposium on Beverage Crops – Murcia (Spain), 24-27 April 2023.

- 39) Mengoli D., Bortolotti G., Bartolomei M., Allegro G., Filippetti I., Manfrini L. “A lightweight and affordable method for canopy porosity estimation for precision spraying”. IEEE International Workshop on Metrology for Agriculture and Forestry - Pisa (Italy) 6-8 November 2023.
- 40) Valentini G., Allegro G., Pastore C., Filippetti I. “Vineyard canopy management techniques to cope with climate change”. *Acta Horticulturae*, 2024, 1385: 165-174. Proc. XIII Int. Conference on Grapevine Breeding, Genetics and Management – Cappadocia (Turkey), 21-24 August 2023.
- 41) Valentini G., Allegro G., Pastore C., Mazzoleni R., Noferini M., Filippetti I. “Evaluation of a fruit-zone cooling system to face multiple summer stress in ‘Sangiovese’ grape”. Proc. of the X International Symposium on Irrigation of Horticultural Crops - Stellenbosch (South Africa), 29 Jan. -2 Feb. 2023.
- 42) Morandi B., Boini A., Kalcsits L., Baranyai L., Allegro G., Manfrini L., Tsoulas N., Zude-Sasse M. “How can we reach enhanced climate resistance considering sunburn and heat damage in fruit and vegetables production?” *Acta Horticulturae*, 2023, 1366: 377-384. XXXI IHC – Proc. Int. Symp. on Adaptation of Horticultural Plants to Abiotic Stresses - Angers (France), 15-19 August 2022.
- 43) G. Valentini, G. Allegro, C. Pastore, R. Mazzoleni, G. Fiori, A. Galletti and I. Filippetti. “Use of a portable vis/NIR device to monitor the accumulation of anthocyanins during ripening in berries of ‘Sangiovese’ (*Vitis vinifera* L.) under heatwave conditions” *Acta Horticulturae*, 2023, 1366: 377-384. XXXI IHC – Proc. Int. Symp. on the Vitivinicultural Sector: Which Tools to Face Current Challenges? - Angers (France), 15-19 August 2022.
- 44) Allegro G., Pastore C., Valentini G., Mazzoleni R., Filippetti I. “Irrigation during ripening may reduce sunburn damages on berries of *Vitis vinifera* L. Sangiovese” *Acta Horticulturae*, 2023, 1366: 377-384. XXXI IHC – Proc. Int. Symp. on Innovative Perennial Crops Management - Angers (France), 15-19 August 2022.
- 45) Allegro G., Valentini G., Pastore C., Mazzoleni R., Martelli R., Pezzi F., Filippetti I. “How to modulate mechanical winter pruning according to the productive and enological traits of four *Vitis vinifera* L. varieties cultivated in the north of Italy” *Acta Horticulturae*, 2023, 1360: 145-150. XXXI IHC – Proc. III International Symposium on Mechanization, Precision Horticulture, and Robotics: Precision and Digital Horticulture in Field Environments - Angers (France), 15-19 August 2022.
- 46) Pastore C., Gaiotti F., Allegro G., Cellini A., Lovat L., Belfiore N., Spinelli F., Filippetti I. “Application of a multidisciplinary approach to understand the effect of night temperatures on anthocyanin accumulation in ‘Corvina’ (*Vitis vinifera* L.)” *Acta Horticulturae*, 2022, 1346: 51-58. Proc. XII IS on Integ. Canopy, Rootstock and Environmental Physiology in Orchard Systems – Wenatchee (WA, USA), 26-30 July 2021.
- 47) Intrieri C., Filippetti I., Allegro G., Valentini G., Pastore C., Colucci E. “Results of a five-year trial to delay ripening of cv. Sangiovese (*Vitis vinifera* L.) by late mechanical defoliation” Proc. GiESCO 20th International Meeting – Mendoza (Argentina), 8-10 November 2017: 74-78.

- 48) Pastore C., Dal Santo S., Zenoni S., Allegro G., Valentini G., Tornielli G.B., Filippetti I. “Changes in flavonoid biosynthesis and in the berry whole transcriptome of ‘Sangiovese’ under moderate air temperature increase” *Acta Horticulturae*, 2017, 1188: 157-164. Proc. X Int. Symposium on Grapevine Physiology and Biotechnology – Verona, 13-1 June 2016.
- 49) Pastore C., Movahed N., Allegro G., Valentini G., Zenoni S., Dal Santo S., Tornielli GB. and Filippetti I. “Phenolic contents and genome-wide expression profiling of grapevine berries (*Vitis vinifera* L. ‘Sangiovese’) ripened under two different temperature regimes”. *Acta Horticulturae* 1172: 289-294. Proc. XIV EUCARPIA Symposium on Fruit Breeding and Genetics - Bologna, 14-18 giugno 2015.
- 50) Intrieri C., Filippetti I., Allegro G., Valentini G., Pastore C. “Star 50 and Star 74: new dwarfing grape rootstocks”. *Acta Horticulturae* 1136: 23-26. Proc. I International Symposium on Grapevine Rootstocks - Rauscedo, 16-17 ottobre 2014.
- 51) Filippetti I., Allegro G., Movahed N., Pastore C., Valentini G., and Intrieri C. “Effect of late-season limitations induced by trimming and antitranspirants canopy spray on grape composition during ripening in *Vitis vinifera* cv. Sangiovese”. Proc. GiESCO 17th International Meeting - Asti-Alba, 29 agosto – 2 settembre 2011: 259-262.
- 52) Movahed N., Masia A., Cellini A., Pastore C., Valentini G., Allegro G. and Filippetti I. “Biochemical approaches to study the effects of temperature on grape composition in cv. Sangiovese”. Proc. GiESCO 17th International Meeting - Asti-Alba (Italy), 29 agosto – 2 settembre 2011: 393-396.
- 53) Filippetti I., Allegro G., Valentini G., Pastore C., Intrieri C., Poni S. “Effects of pre-bloom defoliation (hand vs mechanical) on gas-exchange, yield components and must composition in Sangiovese (*V. vinifera* L.)”. Proc. GiESCO 16th International Meeting - Davis (CA-USA), 12-15 giugno 2009.

Proceedings of national scientific conferences:

- 54) Valentini G., Pastore C., Allegro G., Mazzoleni R., Colucci E., Filippetti I. “*Foliar application of kaolin and zeolites to adapt the adverse effects of climate change in Vitis vinifera* L. cv. Sangiovese”. BIO Web of Conferences, 2022, 44:01003.
- 55) Allegro G., Pastore C., Valentini G., Colucci E., Filippetti I. “Effetti della potatura tardiva sulla maturità tecnologica e fenolica nella cultivar Merlot” www.infowine.com.
- 56) Allegro G., Pastore C., Valentini G., Filippetti I. “Effects of delayed winter pruning on vine performance and grape composition in cv. Merlot” BIO Web of Conferences, 2019, 13:04003.
- 57) Pastore C., Allegro G., Pastore C., Valentini G., Colucci E., Battista F., Filippetti I. “Biochemical and molecular effects of yeast extract applications on anthocyanin accumulation in cv. Sangiovese” BIO Web of Conferences, 2019, 13:03005.

- 58) Valentini G., Allegro G., Pastore C., Colucci E., Magnanini E., Filippetti I. "Climate change and vine training systems: the influence different spatial distribution of shoots may have on sugar accumulation in Sangiovese grapevines" BIO Web of Conferences, 2019, 13:04006.
- 59) Allegro G., Pastore C., Valentini G., Colucci E., Filippetti I. "Effetti della maturazione sulla concentrazione, composizione ed estraibilità dei flavonoidi di bucce e vinaccioli nella cv. Sangiovese" Italus Hortus 19, 2016: 199-200.
- 60) Intrieri C., Filippetti I., Allegro G., Valentini G., Pastore C., Colucci E. "Cinque anni di indagine sugli effetti della defogliazione meccanica tardiva sulla maturazione del Sangiovese" Italus Hortus 19, 2016: 45-46.
- 61) Intrieri C., Filippetti I., Valentini G., Allegro G., Colucci E., Pastore C., Trevisi M. "Valutazione del comportamento agronomico dei vitigni Glera e Garganega sottoposti a diverse forme di allevamento nell'area dei Colli Berici" Italus Hortus 19, 2016: 73-74.
- 62) Filippetti I., Allegro G., Valentini G., Pastore C., Colucci E. "Effetti di cimature in post-invaiaura sulla maturazione tecnologica e fenolica della cv. Sangiovese" Acta Italus Hortus, 13, 2014: 159-160.
- 63) Filippetti I., Pastore C., Allegro G., Valentini G., Zenoni S., Tornielli G.B., Movhaed N., Colucci E. "L'aumento della temperatura durante la maturazione riduce drasticamente la concentrazione degli antociani nelle uve della cultivar Sangiovese" Acta Italus Hortus, 13, 2014: 79-80.
- 64) Filippetti I., Allegro G., Movahed N., Pastore C., Valentini G., Colucci E. and Intrieri C. "Applicazione di cimature post invaiatura per ridurre il disaccoppiamento tra accumulazione zuccherina e maturità fenolica in *Vitis vinifera* cv Sangiovese". Acta Italus Hortus X Giornate Scientifiche SOI, Padova 25-27 giugno 2013: 56.
- 65) Intrieri C., Filippetti I., Allegro G. "STAR 50 e STAR 74, Nuovi portinnesti ad azione nanizzante" Quaderni di Scienze Viticole ed Enologiche, 32, 2011-2012: 3-7.
- 66) Filippetti I., Allegro G., Valentini G., Pastore C., Colucci E., Intrieri C. "Influenza del diverso livello di vigore sul comportamento vegeto-produttivo e sulla composizione delle uve e dei vini della cv Sangiovese" Quaderni di scienze viticole ed enologiche, 32, 2011-2012: 221-226.
- 67) Rombolà A.D., Covarrubias J.I., Filippetti I., Allegro G., Valentini G., Intrieri I. "Interventi di cimatura tardiva per sincronizzare maturazione zuccherina e fenolica" Italus Hortus, 3, 2012: 42-49.
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- 87) Valentini G., Allegro G., Pastore C., Colucci E., Magnanini E., Filippetti I. "Chioma chiusa o chioma aperta in risposta ai cambiamenti climatici" *L'Informatore Agrario*, 2019, 1: 36-38.
- 88) Allegro G., Pastore C., Valentini G., Colucci E. and Filippetti I. "Maturità fenolica: monitorare i processi evolutivi" *Il Corriere Vinicolo*, 2018, 32: 24-27.
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- 100) Filippetti I., Allegro G., Valentini G. "Gestione del vigneto e cambiamenti climatici" Agricoltura, luglio-agosto 2012: 68-71.
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- 105) Allegro G., Valentini G. "Interventi in verde: come eseguirli e renderli efficaci" Agricoltura, supplemento 45 / 2010: 6-8.
- 106) Valentini G., Allegro G., Nigro G. "La forma di allevamento: una scelta da ponderare" Agricoltura, 5 / 2010: 84-89.
- 107) Intrieri C., Filippetti I., Allegro G., Valentini G., Montanari M. "Una trincia-andanatrice per la gestione dei vigneti inerbiti" L'informatore agrario (5) 2010: 65-68.
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- 109) Intrieri C., Filippetti I., Allegro G., Valentini G. "Aspetti agronomici innovativi per la viticoltura del futuro: dalla ricerca all'applicazione tecnica" L'Enologo, luglio-agosto 2009.
- 110) Allegro G., Valentini G., Wample R. "Esperienze di vendemmia differenziale in California" VigneVini 5/2009: 56-58.
- 111) Intrieri C., Filippetti I., Allegro G., Valentini G., Seghetti L., Poni S. "Defogliare la vite in pre-fioritura migliora l'uva e il vino" L'Informatore Agrario 14/2009: 49-53.
- 112) Allegro G., Valentini G., Pastore C. "Vitigni minori autoctoni, una ricchezza da valorizzare" Agricoltura 3/2009: 38-41.
- 113) Intrieri C., Filippetti I. Allegro G. "Merlese un nuovo vitigno da vino" L'Informatore Agrario 11/2007: 59-63.
- 114) Pastore C., Allegro G. "Alla riscoperta dei vitigni autoctoni" Agricoltura 1/2007: 74-74.

- 115) Allegro G., Nigro G. “Una vendemmia 2006 con più uva e all’insegna del buon bere” Agricoltura 9/2006.
- 116) Centinari M., Allegro G. “L’inerbimento del suolo nella coltivazione della vite” Agricoltura 5/2004: 67-68.

Book chapter:

- 117) Allegro G. “Viticulture and global warming: the role of adaptation strategies on polyphenol evolution and wine texture” Bologna University Press, Bologna, 2024.
- 118) Filippetti I., Allegro G. “Sistemi di allevamento per il territorio dei Lambruschi” capitolo del volume: “Atlante dei Lambruschi modenesi” Edizioni Artestampa, Modena, 2020: 264-271.

Thesis:

- 119) Allegro G. “The role of different cultural practices on polyphenols evolution during ripening and on wine taste in black and white *Vitis vinifera* varieties under global warming scenario”. Tesi di Dottorato di Ricerca in Scienze e Tecnologie Agrarie, Ambientali e Alimentari - Università di Bologna (2017). Tutor prof.ssa Ilaria Filippetti.
- 120) Allegro G. “Selezione clonale della cultivar Sangiovese (*Vitis vinifera* L.): impostazione della ricerca e primi risultati ottenuti”. Tesi di Laurea in Viticoltura ed Enologia - Università di Bologna (2011). Relatrice prof.ssa Ilaria Filippetti.
- 121) Allegro G. “Valutazione bio-agronomica di nuovi incroci di *Vitis vinifera*”. Tesi di Laurea quinquennale in Scienze e Tecnologie Agrarie - Università di Bologna (2003). Relatore: prof. Cesare Intrieri, correlatrice: prof.ssa Ilaria Filippetti.

PRIZES AND AWARDS

- Viticultural Paper of the Year Award (2025) of the Australian Society of Viticulture and Oenology for the articles: " Optimizing viticulture sustainability through foliar zeolite treatments: an in-depth analysis of their impact on gas exchange, yield, and the composition of Sangiovese grapes and wine " (<https://doi.org/10.1155/ajgw/7719408>). I was the corresponding author of this article.

SCIENTIFIC COMMITTEE

- Member of the Scientific Committee of the ISHS Congress: “International symposium on advances in grapevine genetics and physiology: innovation and adaptation for the next-generation resilient viticulture”, IHC2026-International Horticultural Congress, Kioto, Japan, 23-28 August 2026.

- Member of the Scientific Committee of the Congress “23rd GiESCO (Group of International Experts for Cooperation on Vitivinicultural Systems)”, Hochschule Geisenheim University, Geisenheim (Germany), 27–31 July 2025.
- Member of the Scientific Committee of the ISHS Congress: “Robotics, Mechanization and Smart Horticulture” nell’ambito dell’European Horticulturae Congress, Bucharest, Romania, 12-16 May 2024.
- Member of the Scientific Committee of the ISHS Congress: “II International Symposium on Precision Management of Orchards and Vineyards”, Tatura, Victoria, Australia, 3-8 December 2023.
- Member of the Scientific Committee of the Congress “22nd GiESCO (Group of International Experts for Cooperation on Vitivinicultural Systems)”, Cornell University in Ithaca, NY, USA, 17-21 July 2023.

COMMUNICATIONS TO INTERNATIONAL CONFERENCES

- Oral presentation: “Assessment of the temperature threshold for the occurrence of sunburn damage in *Vitis vinifera* L. 'Sangiovese'”. II International Symposium on Precision Management of Orchards and Vineyards (ISHS) 3-8 december 2023, Tatura (Australia).
- Oral presentation: “Innovative strategies to adapt the cultivation of red grapevines to the current scenario of climate change”. V International Scientific and Practical Conference: Food Security: Global and national problems, 13-14 ottobre 2023, Samarkand (Uzbekistan).
- Oral presentation: “New perspectives for some local grapevines of the Emilia-Romagna Region (Italia): from the genetic characterization to the wine production in the current scenario of global warming”. III International Symposium on Beverages Crops (ISHS), 24-27 april 2023, Murcia (Spain).
- Oral presentation: “The use of sensors in the vineyard to study the sunburn damages on berries: a case study on cv. Sangiovese”. Webminar: “Monitoring and modifying microclimate and water in vineyard: innovative solutions”, 15 febbraio 2023. Oenoviti International Network.
- Oral presentation: “Irrigation during ripening may reduce sunburn damages on berries of *Vitis vinifera* L. 'Sangiovese'”. IHC 2002 – 31st International Horticultural Congress of ISHS (Symposia: Innovative Perennial Crops Management), 14-20 august 2022, Angers (France).
- Oral presentation (short communication): “How to modulate mechanical winter pruning according to the productive and enological traits of four *Vitis vinifera* L. varieties cultivated in the North of Italy”. IHC 2002 – 31st International Horticultural Congress of ISHS (Symposia: III International Symposium on Mechanization, Precision Horticulture, and Robotics: Precision and Digital Horticulture in Field Environments), 14-20 august 2022, Angers (France).
- Oral presentation (short communication): “Sunburn damage assessment under different levels of sun exposure and temperature in a Sangiovese vineyard”. IHC 2002 – 31st International

Horticultural Congress of ISHS (Workshop 12: How can we reach enhanced climate resilience considering sunburn and heat damage in fruit and vegetables production?), 14-20 august 2022, Angers (France).

- Oral presentation (short communication): “HPLC and SEC analysis on the flavonoids and the skin cell wall material of Merlot berries reveals new insights into the study of the phenolic maturity”. XII IVAS Conference - In Vino Analytica Scientia (Session 1: Chemical analysis of grape, wine, spirits and by-products constituents), 3-7 july 2022, Neustadt (Germany). Congress organized by the Divisions of Analytical Chemistry and Food Chemistry of the European Association for Chemical and Molecular Sciences (EuChemS).
- Oral presentation: “The variable rate fertilization in a highly productive vineyard of cv. Trebbiano romagnolo (*Vitis vinifera* L.) may reduce nitrogen application and vigor variability without yield loss”. 15th International Conference on Precision Agriculture, 26-29 june 2022, Minneapolis, MN (USA). Congress organized by the International Society of Precision Agriculture.
- Oral presentation: “Sunburn damage assessment under different levels of sun exposure and temperature in Sangiovese and Pignoletto berries”. 73rd ASEV National Conference, 19-22 june 2022, San Diego, CA (USA). Congress organized by the American Society of Enology and Viticulture.
- Oral presentation: “Climate change and viticulture: some strategies to adapt the cultivation of red grapevines to the current scenario”. 6th International Conference on Food and Wine Supply Chain, 7-10 june 2022, Bologna. Congress organized by the Food and Wine Supply Chain Council.
- Poster presentation: “A novel fruit-zone cooling system to face multiple summer stresses in Pignoletto cv.”, 14th European Conference on Precision Agriculture, 2-6 july 2023, Bologna. Congress organized by the International Society of Precision Agriculture.
- Poster presentation: “Using canopy proximal sensors for variable rate fertilization in a Trebbiano romagnolo vineyard”, 1st International Symposium on Precision Management of Orchards and Vineyards (ISHS) , 7-11 october 2019, Palermo.
- Presentazione del poster: “Specific yeast derived foliar spray application affects anthocyanins gene expression and accumulation in cv Sangiovese”, 68th ASEV National Conference, 26-29 giugno 2017, Bellevue, WA (USA). Congress organized by the American Society for Enology and Viticulture.

SUPERVISION OF RESEARCH FELLOWS AND STUDENTS

- Tutor of Dvir Tuval, student at the Volcani Institute – Hebrew University of Jerusalem (Israel), during his Short-Term Scientific Mission hosted by the Viticulture Research Group at the

University of Bologna (26 August 2024 – 6 September 2024), within the framework of the COST Action "Fruit tree Crop Responses to Water Deficit and Decision Support Systems Applications (FruitCREWS)".

- Tutor of Dr. Gabriele Valentini for the research fellowship project entitled: "The Role of Water and Composted Soil Amendments in Vineyard Management under the Current Climate Change Scenario." Department of Agricultural and Food Sciences (DiSTAL), University of Bologna, 1 February 2024 – 31 January 2025.
- Tutor of Dr. Giulio Demetrio Perulli for the research fellowship project entitled: "Vineyard Irrigation under the Current Climate Change Scenario: Strategies to Reduce Berry Sunburn Damage and Optimize Water Use in Compost-Amended Vineyards." Department of Agricultural and Food Sciences (DiSTAL), University of Bologna, 1 November 2022 – 31 January 2023.

PARTICIPATION IN PhD BOARDS AND EXAMINATION COMMITTEES

- Member of the PhD Examination Committee for the final defense of the PhD in "Sciences, Technologies and Biotechnologies for Sustainability" (XXXVII Cycle), University of Tuscia (Viterbo, Italy), 16 June 2025.
- Member of the PhD Examination Committee for the final defense of the PhD in "Mountain Environment and Agriculture" (XXXVII Cycle), University of Bolzano, 21 September 2026.
- Member of the PhD Board of the PhD Programme in Smart Agrifood Sciences, University of Verona, from the XLI Cycle onward.

TEACHING

- "Digital and Precise Management of Perennial Crops" (1 ECTS) of the PhD programme in Smart Agrifood Sciences at the University of Verona (from the academic year 2026/27).
- "Elements of Terroirs" (4 ECTS) of the Master Degree in Viticulture, Enology and Wine Marketing at the University of Verona (from the academic year 2026/27).
- "Viticultural Practices" (6 ECTS) of the Bachelor Degree in Science and Technology of Viticulture and Winemaking at the University of Verona (from the academic year 2025/26).
- "General Viticulture" (6 ECTS) of the Bachelor Degree in Science and Technology of Viticulture and Winemaking at the University of Verona (from the academic year 2024/2025).
- "Arboriculture" (2 ECTS), of the course Teaching Methods and Subject-Specific Methodologies, in the Initial Teacher Education Programme for Lower and Upper Secondary School Teachers, at the University of Bologna (academic year 2023/2024).
- "General Viticulture" (6 ECTS) of the Bachelor Degree in Science and Technology of Viticulture and Winemaking at the University of Verona (academic year 2020/2021).

MEMBERSHIP IN SCIENTIFIC SOCIETIES

- Member of the Italian Society for Horticultural Science (SOI).
- Member of the International Society for Horticultural Science (ISHS).
- Ordinary Member of the Italian Academy of Viticulture and Enology.

ADDITIONAL QUALIFICATIONS

- Editor-in-Chief of the “Viticulture Section” of the scientific journal *Horticulturae* (ISSN 2311-7524).
- Associate Editor of the section “Viticulture, Pomology, and Soft Fruits” of the scientific journal *Frontiers in Horticulture*.
- Editorial Board Member of the “Horticultural and Floricultural Crops Section” of the scientific journal *Agronomy* (ISSN 2073-4395).
- Guest Editor of the Special Issue "Dynamics of Berry Growth and Physiology of Ripening in *Vitis vinifera* L.", *Agronomy* (ISSN 2073-4395).
- Erasmus Coordinator for student exchange programmes with the following partner institutions: Bordeaux Sciences Agro (France) and the University of Trás-os-Montes and Alto Douro (Portugal).
- Supervisor of two of Bachelor's Theses, co-supervisor of fourteen Bachelor's Theses, Co-supervisor of eight Master's Theses.
- Thirteen oral presentations to national (Italian) congresses and workshops.
- Subject Matter Expert (Viticulture) with teaching support responsibilities and member of the examination boards for the following courses taught by Prof. Filippetti at the University of Bologna: Viticulture – Master's Degree Programme in Agricultural Sciences and Technologies (since the 2016–2017 academic year); General Viticulture and Nursery Management – Bachelor's Degree Programme in Viticulture and Oenology (since the 2013–2014 academic year).
- Leader of the Work Group in Digitalization and Robotization. Oenoviti International Network.
- Member of the Management Committee of the EU-GIFT Alliance (European University for Geographical Identity as a driver for Food systems Transition to Sustainability). Erasmus+ 2012/2027 (Grant Agreement: 101176959).