



Europass Curriculum Vitae

Personal information

Surname(s)/First name(s)	Ruperti Benedetto
Address(es)	22, via Ilaria Alpi, 35020, Ponte S. Nicolò (Padua), Italy
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Email	benedetto.ruperti@unipd.it
Nationality	Italian
Date of birth	14/10/1966

Professional experience

- 2015 – present** **Associate Professor**
SSD AGR03 – 07B2 sector, at the Department of Agronomy, Animals, Food, Natural Resources and Environment (DAFNAE), University of Padua;
Qualified for the first and second levels in the competitive sector 07/B2 - Science and Technology of Tree and Forest Systems (national qualification, 2012 and 2023 sessions);
Qualified for Level II in competition sector 05/A2 – Plant Physiology (national qualification, 2012 session).
- 2007–2015** **University Researcher.**
SSD AGR03 – 07B2 sector. Department of Agronomy, Animals, Food, Natural Resources and Environment (DAFNAE), AGR03 scientific-disciplinary sector, University of Padua, Italy.
- 2002–** **University Researcher.**
SSD AGR03 – 07B2 sector. Department of Agricultural and Environmental Sciences, Faculty of Agriculture, AGR03 scientific-disciplinary sector, University of Udine.
- 1998 (9 months)** **Level VI laboratory technician**
Department of Environmental Agronomy and Plant Production, Faculty of Agriculture, Scientific-disciplinary sector AGR03, University of Padua.
- 2003 – 2005 (24 months)** **Marie Curie Individual Fellowship (IHP-MCFI), European Community scholarship (FP5, Contract HPMF-CT-2002-01880)**, for research activities at the *Institute of Biology II*, University of Freiburg, Germany.
- 2001–2002 8 months** **Postdoctoral fellowship from the Max Planck Society**, for research at the Max Planck Institut (MPI) fuer Zuechtungsforschung, Cologne, Germany.
- 2001–2002 20 months** **Research grant from the University of Padua**, Faculty of Agriculture, Department of Environmental Agronomy and Plant Production, Research Area No. 08 - Agricultural and Veterinary Sciences - Scientific-disciplinary sector AGR03.
- 1999 – 2000 (24 months)** **Post-doctoral scholarship from the University of Padua**, Faculty of Agriculture, Department of Environmental Agronomy and Plant Production, Research Area No. 08 - Agricultural and Veterinary Sciences - Scientific-disciplinary sector AGR03.
- 1998 (3 months)** **Postdoctoral fellowship from the CNR-British Council**, at the University of Nottingham, Department of Plant and Environmental Sciences, Sutton Bonington Campus, England, United Kingdom.



- 1998** 6 months **Scientific collaboration assignment ESAV - University of Padua**, Faculty of Agriculture, Department of Environmental Agronomy and Plant Production, for the "Characterisation of Veneto extra virgin olive oil using NIRS spectrometry".
- 1996– 1997** (12 months) **Scholarship from the "Fondazione Ing. Gini"** for research at the University of Nottingham, Department of Plant and Environmental Sciences, Sutton Bonington Campus, England, United Kingdom.
- 1994** (3 months) **EU-Comett/Leonardo scholarship** for research at the Institute of Molecular Biology and Biotechnology (IMBB), Foundation for Research and Technology (FORT) Crete, Greece;
- 1991** (6 months) **Erasmus scholarship**, University of Nottingham, Sutton Bonington Campus, England, United Kingdom.

Education and training

- 1998** **PhD in Plant Productivity, University of Padua, Italy.**
- 1994** **Bachelor's Degree in Agricultural Sciences, grade 100 cum laude. University of Padua, Italy.**

Personal skills and competences

Native language Italian

Other languages: English C2
German A1

Teaching activities

- 2017-present** **"Crop Biotechnology" (8 credits) (64 hours)**, Master's degree course in **"Biotechnologies for Food Science"**, School of Agriculture and Veterinary Medicine, University of Padua;
- 2021-present** **"Viticultural technologies" (6 credits) (48 hours)**, Level I degree course in "Viticultural and Oenological Sciences and Technologies", School of Agriculture and Veterinary Medicine, University of Padua;
- 2015-2020** **"Viticultural Technologies" (6 credits) (48 hours)**, Bachelor's Degree in "Viticultural and Oenological Sciences and Technologies", School of Agriculture and Veterinary Medicine, University of Padua;
- 2011-2020** **"Quality of Plant Products" (8 credits) (64 hours)**, Master's Degree in "Food Science and Technology", Faculty of Agriculture, University of Padua;
- 2010-2012** **"Fruit Biotechnology" (4 credits) (32 hours)**, Master's Degree Course in "Biotechnology for Food", Faculty of Veterinary Medicine, University of Padua;
- 2008-2009** **"Cell Biology" (4 credits) (32 hours)**, Bachelor's Degree in "Agricultural Biotechnology", Faculty of Agriculture, University of Padua;
- 2007** **"Fruit Biotechnology 2" (6 credits) (60 hours)**, Master's Degree Course in "Biotechnology for Food", Faculty of Veterinary Medicine, University of Padua;
- 2006** **"Fruit Biotechnology" (3 credits) (30 hours)**, Master's Degree Course in "Biotechnology for Food", Faculty of Agriculture, University of Padua, Italy;
- 2003** **"Viticulture Techniques I" (4 credits) (40 hours)**, except for the 2004-2005 academic year, 38 hours), Bachelor's Degree Course in "Viticulture and Oenology", Faculty of Agriculture, University of Udine.
- 2005** **"Biotechnology of Fruit Crops" (4 credits) (40 hours)**, except for the 2007-2008 academic year, 36 hours) (Substitute), Master's Degree Course in "Agricultural Biotechnology", Faculty of Agriculture, University of Udine.

Supervisor of 6 doctoral theses in Crop Science

Supervisor of over 50 degree theses in:

Agricultural Sciences and Technologies (Master's Degree); Biotechnology for Food Science (Master's Degree), Biotechnology for Food Science (Master's Degree), Food Sciences and Technologies (Master's Degree), Viticulture and Oenology Sciences and Technologies (Bachelor's Degree).

Institutional and management activities

- 2007-present:** Member of the Teaching Board for the PhD programme in *Crop Science*.
- 2019-present:** Member of the GAV (Academic Assessment Committee) for the Master's Degree courses in "Biotechnology for Food" (BAL) and "Biotechnology for Food Science" (BFS) at the University of Padua
- 2014 - 2019:** Member of the GAV and Tutor of the Master's Degree Course in "Food Science and Technology" - STAL, University of Padua.
- 2015-2019:** Member of the scientific committee of the Department of Agronomy, Animals, Food, Natural Resources and Environment - DAFNAE, University of Padua.
- 2012-2019:** Member of the Internship and Degree Committee for the Master's Degree Course in Food Biotechnology.
- 2015-2016:** Responsible for the implementation of the departmental project 'Upgrading teaching equipment in viticulture in Conegliano to improve teaching'.
- 2015-2016** VISITING PROFESSOR (two weeks per year, two academic years) at the Institut fuer Biologie II, University of Freiburg, Germany, at the invitation of and with expenses covered by the University of Freiburg.
- 2010-2014** VISITING PROFESSOR (one week per year, four academic years) at the Institut fuer Biologie II, University of Freiburg, Germany, at the invitation of and with expenses covered by the University of Freiburg.
- 2017-2018** VISITING PROFESSOR at the Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, University of Tokyo, Bunkyo-Ku, Tokyo, Japan.

Responsibility for scientific studies and research entrusted by qualified public or private institutions

National

Veneto Region Research Project (CSR-SRG01, PEI AGRI) (2025-2028) (42 months) - Department of Agronomy, Animals, Food, Natural Resources and Environment (DAFNAE) - Funded by **the Veneto Region**, 'Towards high-density and sustainable olive growing in Veneto - SuperOliVe'. Funding: €116,400.00.

Research Project of the Veneto Region - Veneto Agricoltura (2024-2025) (two years) - Department of Agronomy, Animals, Food, Natural Resources and Environment (DAFNAE) – Funded by **Veneto Agricoltura**, 'Production alternation in Veneto olive growing: influence of climate change and nutritional status' – Regional Law No. 32 of 09.08.1999, Art. 4'. Funding: €44,000.00.

Veneto Region ESF Research Project – (2023-2024) (for 4 annual research grants) – Department of Agronomy, Animals, Food, Natural Resources and Environment (DAFNAE) – Funded by **the European Social Fund (ESF)**, 'Towards a sustainable organic nursery supply chain: micropropagation of species for biodiversity and organic agri-food and optimisation of the use of biostimulants with active substances from processing by-products for organic nurseries' – PROJECT CODE 2105-0055-553-2023.

Research Project of the Veneto Region – Veneto Agricoltura (2023) (annual) - Department of Agronomy, Animals, Food, Natural Resources and Environment (DAFNAE) – Funded by **Veneto Agricoltura**, "Production alternation in Veneto olive growing: influence of climate change and nutritional status" – Regional Law No. 32 of 09.08.1999, Art. 4. Funding: €22,000.00. – CUP code J63C22000470002.

Departmental Research Project SID (PRID EX prat) (2017) (two-year) – Department of Agronomy, Animals, Food, Natural Resources and Environment (DAFNAE) – Funded by **the University of Padua**, 'Identification of physiological-molecular factors associated with surface heating during post-harvest storage of apples'. Funding: €25,862.00.

FSE (European Social Fund) research grant (2012) funded by the **Veneto Region** Cod. CUP C97B12000370006, FSE Operational Programme 2007-2013, Human Capital Axis. 'Innovative approaches for

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the sustainable management of bitter pit in apples in Veneto", Project code 2105/201/6/1686/2012. Funding: €24,000.00.

Junior research grant from the University of Padua (2012). Research area no. 08 - Agricultural and veterinary sciences - Scientific-disciplinary sector AGR03. "Identification of physiological-molecular factors associated with post-harvest storage physiopathologies in apples". Funding: €22,946.00.

Junior research grant from the University of Padua (2008). Research area no. 08 - Agricultural and veterinary sciences - Scientific-disciplinary sector AGR03. "A systematic approach to the **in vivo** study of cellular responses in Arabidopsis through the creation of reporter plants with fluorescent markers". Funding: €15,038.00.

MIUR (Ministry of Education, University and Research), PRIN (2004-2006) (two-year): 'Role of sugars as a signal in defining the quality of peach fruits'. Department of Agricultural and Environmental Sciences, University of Udine, Italy. Funding: €41,500.00.

MURST (MURST note 1707 of 22/07/1998) – University of Padua "Young Researchers Project" (1999) (annual): "Identification and characterisation of genes responsible for the polar transport of auxins in peaches". Department of Environmental Agronomy and Plant Production, University of Padua, Italy.

International

ESA (European Space Agency) (2017). "Plant space physiology in parabolic flights: Use of FLUMIAS to reveal dynamic cellular changes initiated by statolith movement in Arabidopsis thaliana columella cells".

European Community (FP6) (2007-2011) (five-year): "AUTOSCREEN for cell-based high-throughput and high-content gene function analysis and drug discovery screens", 'AUTOSCREEN' [LSHG-CT-2007– 037897]. Department of Environmental Agronomy, University of Padua, Italy. Funding: €610,000.00.

ESA (EUROPEAN SPACE AGENCY) (2005-2008) (three years): "High-resolution analysis of gravity response signal transduction pathways in higher plants", MAP Project number 14341/00/NL/SH. Department of Agricultural and Environmental Sciences, University of Udine, Italy. Funding: €150,000.00.

Management of or participation in the activities of a research group characterised by national or international collaborations

National Project - Participation, as a member of the research group, in the project "Genetic and molecular bases of cell polarity in plants" "Vigoni Programme" 2001 (protocol 55-2001) and subsequent extension 2002/2003 (protocol 129-2002), CRUI, "Exchange programme exchange between Italian and German university researchers". Scientific director Prof. A. Ramina, University of Padua. Total funding: €5,000. From 01-01-2002 to 31-12-2003

PRIN National Project - Participation, as Co-Coordinator of the Research Group Research Group, in the project "Metabolism and perception of sugars in peaches and grapes: study of regulatory factors" PRIN 2003 Programme. Scientific director Prof. G. Cipriani, University of Udine. From 20-11-2003 to 20-11-2005

Regional Project - Participation, as Co-Coordinator of the Research Group Research Group, in the project "OLIDRUP - Growth and ripening processes of olive drupes".

Veneto Region Project (Regional Law 9.8.1999 no. 32), 2008-2009 (two years). Scientific director Prof. C. Giulivo, University of Padua. Total funding: €30,000. from 01-01-2008 to 31-12-2009

AGER National Project - Participation as Co-Coordinator of the Research Group Research Group, in the project 'Apple quality in the post-genomic era, from the creation of new genotypes to post-harvest: nutrition and health' (2011-2014) (three-year project - extended by 12 months). AGER Project, grant no. 2010-2119; Scientific Director Prof. A. Ramina, University of Padua. Total funding funding: €393,000.

Responsibility for scientific studies and research entrusted by qualified private institutions

Assignment from private institution - **Research agreement** with **MARVIL ENGINEERING SRL** (Magrè - BZ): "Study of hypoxic metabolism and identification of biomarkers for the optimisation of the DCA technique and the preservation of apples" (2013 - annual). Funding: €12,200.00

from 01-01-2013 to 31-12-2013

Assignment from a private institution - **Research agreement** with **MARVIL ENGINEERING SRL** (Magrè - BZ): "Consultancy for the identification of biomarkers for the development of sensors for the optimisation of the DCA technique for apple storage" (2017 - annual). Funding: €18,500.00

from 22 November 2017 to 30 September 2018

Assignment from a private institution - **Research agreement** with **LOACKER SpA** (Auna di Sotto/Unterinn - BZ) and **UNISMART** (University of Padua Foundation): 'Research on foliar fertilisers for use on hazelnuts' (2020 - 2024) (four-year). Funding: €8,000

from 28 May 2020 to 31 December 2024

Assignment from a private institution - **Research agreement** with **LALLEMAND SAS** (Montreal - Canada): "Effects of foliar application of inactive dry yeast extracts (LalVigne™ AROMA) on the composition of Pinot gris, Glera and Sauvignon blanc grapes" (2020 - 2021 annual). Funding: €10,000.00

from 14 October 2020 to 13 October 2021

Assigned by a private institution - **Research agreement** with **DANSTAR FERMENT AG** (Zug - Switzerland) "Effects of foliar application of inactive yeast extracts on the water stress tolerance of Arabidopsis thaliana plants" (2021 - 2023 biennial) - Funding: €14,280.00

from 01-12-2021 to 31-12-2023

Assignment from a private institution - **Research agreement** with **DANSTAR FERMENT AG** (Zug - Switzerland) "Effects of foliar application of inactivated yeast extracts (LalVigne™ AROMA) on the composition of Pinot Grigio, Glera and Sauvignon Blanc grapes" (2021–2023 biennial)- Funding: €12,320.00

from 01-12-2021 to 31-12-2023.

Research activities

- 1 - Study of the biochemical and molecular aspects of fruit ripening and leaf and fruit abscission in tree species: olive, apple and grapevine;
- 2 - Analysis of the integration of hormonal signals in the regulation of plant development, with particular reference to the phenomena of flower induction, fruit set and alternate bearing, in relation to biotic and abiotic stresses in olive, apple and grapevine;
- 3 - Development of protocols for the micropropagation and regeneration of plants of agroforestry interest (blueberry, hazelnut, walnut).
- 4- Development of high-throughput methodologies for the functional study of genes in situ and for the *screening* of crop protection products for the control of ripening and abscission.

Organisation of conferences

2013: 10th SOI Scientific Days, Padua, Agripolis Campus, 25-27 June 2013 -

Research project evaluator

University of Verona;

The Israel Science Foundation;

Deutsche Forschungsgemeinschaft (DFG), German Research Foundation

Fundação para a Ciência e a Tecnologia (FCT), the Portuguese public funding agency for R&D

Editorial roles

2020-2021: Topic Editor for the International Journal of Molecular Sciences.

Reviewer for scientific journals

Antioxidants; BMC Genomics; Food Science and Technology International; Frontiers in Plant Science; Hortscience; Journal International des Sciences de la Vigne et du Vin; Journal of Experimental Botany; Journal of the Science of Food and Agriculture; Molecular Biotechnology; Plant Biology; Plant Cell and Environment; Plant & Cell Physiology; Plant Physiology and Biochemistry; Postharvest Biology and technology; The Journal of Agricultural Science; Trends in Plant Science.

Scientific output

Author of 80 scientific articles published in international peer-reviewed journals with impact factor.

H-index: 34.

Total citations: 3,496 (Scopus).

List of publications

International ISI/SCOPUS publications with referees (*corresponding author)

1. Salamé E, Iob M., **Ruperti B.**, Tonutti P., Brizzolara S. Hypoxic storage conditions differently affect volatile and polyphenol profiles of apple (cv. 'Red Delicious') flesh and peel. **Postharvest Biology and Technology**, 2025, 230, 113786.
2. Simonetti, V, Ravazzolo L., **Ruperti B.**, Quaggiotti, S., Castiello, U. The effects of a neighbour and its identity on roots' plastic growth. **Aob Plants**, 2025, 17(4), plaf031.
3. Simonetti, V., Ravazzolo, L., **Ruperti, B.**, Quaggiotti, S., Castiello, U. A system for the study of roots 3D kinematics in hydroponic culture: a study on the oscillatory features of root tip. **Plant Methods**, 2024, 20(1), 50.
4. Quaggiotti, S., Buzzicotti, L., Koch, K.E., **Ruperti, B.**, Ravazzolo, L. Strigolactone roles in maize tolerance to low nitrogen involve shifts in acquisition and partitioning of protein, sulphur, and iron. **Plant and Soil**, 2024, 505(1), pp. 41–64, e2122460119.
5. Ravazzolo, L., Chichi, A., Meggio, F., Malagoli, M., **Ruperti B.**, Quaggiotti, S. A Maize Mutant Impaired in SL Biosynthesis (zmccd8) Shows a Lower Growth, an Altered Response to Nitrogen Starvation, and a Potential Secondary Effect on Drought Tolerance. **Stresses**, 2024, 4(4), pp. 614–626.
6. Pasternak, T., Pérez-Pérez, J.M., **Ruperti, B.**, Aleksandrova, T., Palme, K. A New In Vitro Growth System for Phenotypic Characterisation and Seed Propagation of Arabidopsis thaliana. **Journal of Plant Growth Regulation**, 2024, 43(2), pp. 652–658.
7. Bonato, B., Wang, Q., Guerra, S.,...**Ruperti, B.**, Castiello, U. 'United we stand, divided we fall': intertwining as evidence of joint actions in pea plants. **Aob Plants**, 2024, 16(1), plad088.
8. Mary, B., Iván, V., Meggio, F.,...**Ruperti B.**, Wu, Y., Cassiani, G. Imaging of the electrical activity in the root zone under limited-water-availability stress: A laboratory study for Vitis vinifera. **Biogeosciences**, 2023, 20(22), pp. 4625–4650.
9. Rodrigues, M., Forestan, C., Ravazzolo, L.,...Battista, F., **Ruperti, B.** Metabolic and Molecular Rearrangements of Sauvignon Blanc (Vitis vinifera L.) Berries in Response to Foliar Applications of Specific Dry Yeast. **Plants**, 2023, 12(19), 3423.
10. Ordoñez Trejo, E.J., Brizzolara, S., Cardillo, V.,...**Ruperti B.**, Bonghi, C., Tonutti, P. The impact of PGRs applied in the field on the postharvest behaviour of fruit crops. **Scientia Horticulturae**, 2023, 318, 112103.
11. Bonato, B., Simonetti, V., Bulgheroni, M., ...**Ruperti, B.**, Castiello, U. Evidence of Motor Intentions in Plants: A Kinematical Study. **Journal of Comparative Psychology**, 2023, 137(4), pp. 228–237.
12. Quaggiotti, S., **Ruperti, B.**, Frigo, M.,...Carraro, P., Ravazzolo, L. Identification of gene markers to predict proanthocyanidins biosynthesis in cell culture of Croton lechleri. **Plant Cell Tissue and Organ Culture**, 2023, 153(1), pp. 159–172.

13. Rodrigues, M., Ordoñez-Trejo, E.J., Rasori, A., ...**Ruperti, B.**, Bonghi, C. Dissecting postharvest chilling injuries in pome and stone fruit through integrated omics. **Frontiers in Plant Science**, 2023, 14, 1272986.
14. Ethanol fermentation- and ethylene physiology-related genes expression profiles in Red Delicious apples stored under variable hypoxic conditions and protocols. Salamé, E., Brizzolara, S., Rodrigues, M.,...Tonutti, P., **Ruperti, B.** **Advances in Horticultural Science**, 2023, 37(1), pp. 89–99.
15. Botton, A., Girardi, F., **Ruperti, B.**,...Cardillo, V., Meggio, F. Grape Berry Responses to Sequential Flooding and Heatwave Events: A Physiological, Transcriptional, and Metabolic Overview. **Plants**, 2022, 11(24), 3574.
16. Ravazzolo, L., **Ruperti, B.**, Frigo, M., ...Malagoli, M., Quaggiotti, S. C3H Expression Is Crucial for Methyl Jasmonate Induction of Chicoric Acid Production by *Echinacea purpurea* (L.) Moench Cell Suspension Cultures. **International Journal of Molecular Sciences**, 2022, 23(19), 11179.
17. Amato, A., Cardone, M.F., Ocarez, N., ...**Ruperti B.**, Zenoni, S., Bergamini, C. VviAGL11 self-regulates and targets hormone- and secondary metabolism-related genes during seed development. **Horticulture Research**, 2022, 9, uhac133.
18. Cainelli N, Forestan C, Angeli D, Villegas TR, Costa F, Botton A, Rasori A, Bonghi C, **Ruperti B.** Transcriptomic Insights on the Preventive Action of Apple (cv Granny Smith) Skin Wounding on Superficial Scald Development. **Int J Mol Sci.** 14 Dec 2021;22(24):13425. doi: 10.3390/ijms222413425.
19. Ravazzolo L, Boutet-Mercey S, Perreau F, Forestan C, Varotto S, **Ruperti B**, Quaggiotti S. Strigolactones and Auxin Cooperate to Regulate Maize Root Development and Response to Nitrate. **Plant Cell Physiol.** 2021 Sep 24;62(4):610-623. doi: 10.1093/pcp/pcab014.
20. Teale WD, Pasternak T, Dal Bosco C, Dovzhenko A, Kratzat K, Bildl W, Schwörer M, Falk T, **Ruperti B**, V Schaefer J, Shahriari M, Pilgermayer L, Li X, Lübken F, Plückthun A, Schulte U, Palme K. Flavonol-mediated stabilisation of PIN efflux complexes regulates polar auxin transport. **EMBO J.** 4 January 2021;40(1):e104416. doi: 10.15252/embj.2020104416.
21. Pasternak T., **Ruperti B.** & Palme K. (2020): A simple high efficiency and low cost in vitro growth system for phenotypic characterisation and seed propagation of *Arabidopsis thaliana*. **BioRxiv**, DOI: 10.1101/2020.08.23.263491
22. Meggio, F., Trevisan, S., Manoli, A., **Ruperti, B.**, Quaggiotti, S. Systematic investigation of the effects of a novel protein hydrolysate on the growth, physiological parameters, fruit development and yield of grapevine (*Vitis vinifera* L., cv sauvignon blanc) under water stress conditions. **Agronomy**, 2020, 10(11), 1785.
23. Amato, A., Cavallini, E., Walker, A.R., ...**Ruperti, B.**, Zenoni, S., Torielli, G.B. The MYB5-driven MBW complex recruits a WRKY factor to enhance the expression of targets involved in vacuolar hyper-acidification and trafficking in grapevine. **Plant Journal**, 2019, 99(6), pp. 1220–1241.
24. Botton A, **Ruperti B.** The Yes and No of the Ethylene Involvement in Abscission. **Plants** (Basel). 25 June 2019;8(6):187. doi: 10.3390/plants8060187.
25. Brizzolara, S., Cukrov, D., Mercadini, M., ...**Ruperti, B.**, Tonutti, P. Short-Term Responses of Apple Fruit to Partial Reoxygenation during Extreme Hypoxic Storage Conditions. **Journal of Agricultural and Food Chemistry**, 2019, 67(17), pp. 4754–4763.
26. **Ruperti, B.**, Botton, A., Populin, F., ...Schievano, E., Meggio, F. Flooding responses on grapevine: A physiological, transcriptional, and metabolic perspective. **Frontiers in Plant Science**, 2019, 10, 339.

27. Cainelli, N., **Ruperti, B.** Biochemistry and molecular biology in fruits during cold storage. **Annual Plant Reviews Online**, 2019, 2(3), pp. 659–688.

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28. Busatto N, Farneti B, Commisso M, Bianconi M, Iadarola B, Zago E, **Ruperti B**, Spinelli F, Zanella A, Velasco R, Ferrarini A, Chitarrini G, Vrhovsek U, Delledonne M, Guzzo F, Costa G, Costa F. *Apple fruit superficial scald resistance mediated by ethylene inhibition is associated with diverse metabolic processes*. **Plant Journal** (2018): 93(2):270-285. doi: 10.1111/tbj.13774.
29. Nziengui, H., Lasok, H., Kochersperger, P., ...**Ruperti B.**, Palme, K., Ditengou, F.A. Root gravitropism is regulated by a crosstalk between para-aminobenzoic acid, ethylene, and auxin. **Plant Physiology**, 2018, 178(3), pp. 1370–1389.
30. Hmam, I., Mariotti, R., **Ruperti, B.**, ...Baldoni, L., Barcaccia, G. Venetian olive (*Olea europaea*) germplasm: disclosing the genetic identity of locally grown cultivars suited for typical extra virgin oil productions. **Genetic Resources and Crop Evolution**, 2018, 65(6), pp. 1733–1750.
31. Amato A., Cavallini E., Zenoni S., Finezzo L., Begheldo M., **Ruperti B.**, Tornielli G.B.. *A Grapevine TIG2-Like WRKY Transcription Factor Is Involved in Regulating Vacuolar Transport and Flavonoid Biosynthesis*. **Frontiers Plant Sci.** (2017) vol. 7, ISSN: 1664-462X, doi: 10.3389/fpls.2016.01979
32. Cukrov D, Zermiani M, Brizzolara S, Cestaro A, Licausi F, Luchinat C, Santucci C, Tenori L, Van Veen H, Zuccolo A, **Ruperti B**, Tonutti P. *Extreme Hypoxic Conditions Induce Selective Molecular Responses and Metabolic Reset in Detached Apple Fruit*. **Front Plant Sci.** (2016): 7:146. doi: 10.3389/fpls.2016.00146.
33. Pasternak T, Tietz O, Rapp K, Begheldo M, Nitschke R, **Ruperti B**, Palme K. *Protocol: an improved and universal procedure for whole-mount immunolocalisation in plants*. **Plant Methods**. (2015): 11:50. doi: 10.1186/s13007-015-0094-2.
34. Zermiani M, Zonin E, Nonis A, Begheldo M, Ceccato L, Vezzaro A, Baldan B, Trentin A, Masi A, Pegoraro M, Fadanelli L, Teale W, Palme K, Quintieri L, **Ruperti B.** *Ethylene negatively regulates transcript abundance of ROP-GAP rheostat-encoding genes and affects apoplastic reactive oxygen species homeostasis in epicarps of cold stored apple fruits*. **Journal of Experimental Botany** (2015): 66(22):7255-70. doi: 10.1093/jxb/erv422.
35. Zermiani M, Begheldo M, Nonis A, Palme K, Mizzi L, Morandini P, Nonis A, **Ruperti B.** *Identification of the Arabidopsis RAM/MOR signalling network: adding new regulatory players in plant stem cell maintenance and cell polarisation*. **Annals of Botany** (2015): 116(1):69-89. doi: 10.1093/aob/mcv066.
36. Eccher G, Begheldo M, Boschetti A, **Ruperti B**, Botton A. *Roles of Ethylene Production and Ethylene Receptor Expression in Regulating Apple Fruitlet Abscission*. **Plant Physiology** 2015: 169(1):125-37. doi: 10.1104/pp.15.00358.
37. Eccher, G; Botton, A; Dimauro M; Boschetti A; **Ruperti B***; Ramina A. (2013). *Early Induction of Apple Fruitlet Abscission Is Characterised by an Increase in Both Isoprene Emission and Abscissic Acid Content*. **Plant Physiology** 161: 1952-1969; ***corresponding author**.
38. M. Begheldo, F.A. Ditengou, G. Cimoli, S. Trevisan, S. Quaggiotti, A. Nonis, K. Palme, **B. Ruperti**. *Whole mount in situ detection of microRNAs on Arabidopsis tissues using Zip Nucleic Acid probes*. (Whole mount Arabidopsis miRNAs detection by ZNA probes). **Anal Biochem.** (2013): 434(1):60-6. doi: 10.1016/j.ab.2012.10.039.

39. Pinosa F, Begheldo M, Pasternak T, Zermiani M, Paponov IA, Dovzhenko A, Barcaccia G, **Ruperti B**, Palme K. *The Arabidopsis thaliana Mob1A gene is required for organ growth and correct tissue patterning of the root tip.* **Annals of Botany** 2013 Dec;112(9):1803-14. doi: 10.1093/aob/mct235. Epub 7 November 2013.

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In witness whereof

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