FORMATO EUROPEO PER IL CURRICULUM VITAE

INFORMAZIONI PERSONALI

Name	**BRAIDOT, Enrico,**
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Phone	**+39 0432 558792**
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Citizenship	Italiana
Data di nascita	16.04.1963

WORK EXPERIENCE

01/11/2005 – in corso	Associate professor in A5/02 area, Disciplinary Scientific Area BIO/04 – Plant physiology
• Name and address of employer Nome e indirizzo del datore di lavoro	UNIVERSITY OF UDINE via delle scienze, 91 - 33100 UDINE (ITALY)
• Type of organisation or sector	Education and research
• Type of employment	University lecturer
• Main duties and responsibilities	Education, research and third mission
08/01/2001 – 31/10/2005	University researcher in Disciplinary Scientific Area BIO/04 – Plant physiology
• Name and address of employer Nome e indirizzo del datore di lavoro	UNIVERSITY OF UDINE via delle scienze, 91 - 33100 UDINE (ITALY)
• Type of organisation or sector	Education and research
• Type of employment	University lecturer
• Main duties and responsibilities	Education, research

23/12/1998 – 07/01/2001	Graduated technician VIII Q. F.
• Name and address of employer	UNIVERSITY OF UDINE via delle scienze, 91 - 33100 UDINE (ITALY)
• Type of organisation or sector	Education and research
• Type of employment	Graduated technician
• Main duties and responsibilities	Research and teaching collaboration
13/01/1992 – 22/12/1998	Graduated technician VII Q. F.
• Name and address of employer	UNIVERSITY OF UDINE via delle scienze, 91 - 33100 UDINE (ITALY)
• Type of organisation or sector	Education and research
• Type of employment	Graduated technician
• Main duties and responsibilities	Research and teaching collaboration
02/01/1990 – 31/12/1991	Region scholarship from Region Friuli Venezia Giulia
• Name and address of employer	UNIVERSITY OF UDINE via delle scienze, 91 - 33100 UDINE (ITALY)
• Type of organisation or sector	Education and research
• Type of employment	Three-years scholarship recipient
• Main duties and responsibilities	Ricerca e collaborazione alla didattica. Cultore della materia per discipline inerenti alla Biologia vegetale

AFFILIATIONS

• 1990/2011	Member of the SIBV (Italian Society of Plant Biology Vegetale previously Italian Society of Plant Physiology)

RESEARCH ACTIVITY

Main topics	Scientific activity has concerned: a) effect of activated oxygen species on senescence phenomena and plant response to biotic and abiotic stresses; in particular his attention was devoted to the oxylipin metabolism and their involvement in lipoperoxidative degradation b) energization and energy transfer processes in mitochondria, submitochondrial particles and purified plasmalemma vesicles; c) plant mitochondria role in programmed cell death phenomena; d) detection and characterization of flavonoid translocators by immunochemical methods; e) effects of plant secondary metabolites as bio-agents during response to biotic stresses.
Current research fields	Recent scientific interest is focused on: a) Study of the effect of environmental stress, such as high salt concentration and water shortage, on water relations in spontaneous and cultivated plants. His experimental contribute is related to the physiological strategies adopted to

	improve drought resistance and recovery after hydraulic failure. b) Setting of methods for the “green synthesis and purification” of organic nanostructures and further functionalization by means of bio-agents obtained from plant extracts. Study about the use of nanomaterials as shuttles for selective delivery of nutrients and bio-agents to plants. c) Studies to verify the practical application of these innovative technologies without risk to operators and while respecting environmental sustainability. The experimental focus is intended to lower the excessive use of phytochemicals for pest control and to deliver bio-active molecules able to modulate environmental responses in crop cultures. d) Phenotyping approach obtained by means of remote sensing devices. Validation of the accuracy of these less-invasive measurements to eco-physiological investigations at different scale levels (from tissue to ecosystems) comparing them with data obtained from conventional standardized analyses.
ACADEMIC AND INSTITUTIONAL ASSIGNMENTS	
Da 2019 – in corso	Member of the CAQ (Commission for Quality Assurance) of the course of study in 'Science for the Environment and Nature'. Contributed to the drafting of the Review Document for the periods 2017/2019 and 2020/2023.
Da 2020 – in corso	Member of the Teaching Commission for the Master's Degree Course in 'Sustainable Environmental Science and Technology' formerly 'Land Analysis and Management'.
Da 2014 – in corso	Contact person for the Czech Republic ERASMUS partner at Mendel University in Brno. Local partner Prof. Tomáš Vyhnánek Director of the Department of Plant Biology at the Faculty of Agricultural Sciences.
Da 2013 – 2018	Member of the Teaching Commission for the Master's Degree Course in 'Science and Technology for the Environment and Territory'.
Da 02/2011 – 11/2017	Member of the Teaching Commission for the bachelor degree course in 'Science for the Environment and Nature'.
Da 2008 – in corso	Contact person for laboratory activities for the Plant Biology Section of the Department of 'Biology and Plant Protection' and later also in the Department of 'Agricultural and Environmental Sciences' and finally in the Department of 'Food, Environmental and Animal Sciences'.
Da 2007 – 2012	Member of the Board of Interdepartmental Centre for Library Services of the Cotonificio area (CIB 7) until its incorporation into the integrated university library system
Da 2007 – 2008	Member of the Teaching Commission for the bachelor degree courses in STAN, STAT and Viticulture and Oenology for the revision of courses to be implemented, as part of the university reform pursuant to Ministerial Decree 270/2004.
Da 24/10/2006 – 31/10/2009	Since 24.10.2006, by Dean decree no. 965, he has been appointed Deputy Director of the Department of “Biology and Agro-Industrial Economics” for the three-year academic period 2006/2009.
2003	Member of the Commission for a comparative evaluation procedure for 1 position as university researcher for the scientific disciplinary area BIO/04 Plant Physiology, at the Faculty of Mathematical, Physical and Natural Sciences of the

University of Milan.

BIBLIOMETRIC INDICATORS

Unique researcher identifier ORCHID Id: **0000-0002-5415-3657**

SCOPUS: **64** peer-reviewed publications; citations: **2101**; AIF (Author impact Factor) about the career: **4,199** (*h* index: **22**; values updated to **September 2023**).
https://www.scopus.com/authid/detail.uri?authorId=6602871765#
WEB OF SCIENCE: **33** documents; citations: **1113**; *h* index: **14**.
https://www.webofscience.com/wos/woscc/summary/7aaa3fba-2c2b-4272-9e2d-ff6de65081db-a653f5d6/relevance/1

DIDATTICA ACCADEMICA

PhD School

2019 – in corso	Member of the Council of the PhD course in "Agricultural Sciences and Biotechnology".
Da 2007– 2017	Member of the Teaching Board of the PhD course in "Agricultural Sciences and Biotechnology".

Tutor PhD thesis

Da 2020– 2023	He supervised the experimental work and drafting of Dr. Dora Scarpin's PhD thesis entitled "Smart application of biological agents by means of nanomaterials: modulation of physiological traits of resistance and antimicrobial activity against plant disease" within the framework of the PhD course in "Agricultural Science and Biotechnology", cycle XXXVI.
Da 2013– 2016	He supervised the experimental work and drafting of Dr. Antonio Filippi's PhD thesis entitled 'Flavonoid role in plant stress responses' as part of the PhD course in Agricultural Sciences and Biotechnology, cycle XXIX.

Academic teaching

da a.a. 2022/23 – in corso	"Plant Biology" (6 CFU) for the "Environmental Sciences" Bachelor Degree
da a.a. 2020/21 – in corso	"Taxonomy and Evolutionary Biology" (3 CFU) for the "Biotechnology" Bachelor Degree
da a.a. 2018/19 – in corso	"Environmental stresses and resilience in plant ecosystems" (6 CFU) for the "Environmental Analysis and Management" previously "Sustainable Sciences & Technologies for the Environment" Master degree
da a.a. 2018/19 – 2022/23	"Plant Biology and Environmental Changes" (1 CFU) for the "Environmental Analysis and Management" Master degree
da a.a. 2010/11 – 2017/18	"Ecophysiology of land systems" (6 CFU) for the "Land and Environment Science and Technology" Master Degree
da a.a. 2010/11 – 2021/22	"Plant Physiology" (6 CFU) for the "Environmental Sciences" Bachelor Degree
a.a. 2010/11	"Grapevine Physiology 2" (3 CFU) for the "Viticulture, Oenology and Marketing" Master Degree
da a.a. 2008/09 – 2009/10	"Ecophysiology" (4 CFU) for the "Land and Environment Science and Technology" Master Degree
da a.a. 2008/09 – 2009/10	"Plant Physiology" (6 CFU) borrowed between the "Environmental Sciences" and "Plant biotechnology" Bachelor Degrees
da a.a. 2005/06 – 2007/08	"General Botany" (4 CFU) borrowed between "Viticulture and Oenology",

	"Agricultural Science and Technology" and "Science and Technology for the Environment and Nature" Bachelor Degrees
da a.a. 2003/04 – 2008/09	"Environmental Plant Physiology" (4 CFU) borrowed between "Science and Technology for the Environment and Nature" Bachelor Degree and the "Land and Environment Science and Technology" Master Degree
da a.a. 2002/03 – 2004/05	"Botany" (3 CFU) for the "Animal Production" Diploma
a.a.1998/1999	"General biology" (50 hours) for "Food Technology" Bachelor Degree
Tutor for academic thesis	

EDUCATION AND TRAINING

12/1989	Enrolment in the register professional order of Agronomists
• Name and type of organisation providing education and training	UNIVERSITY OF UDINE FACULTY OF AGRICULTURE via Palladio, 8 - 33100 UDINE (ITALY)
• Principal subjects/occupational skills covered	Skills in the disciplines of agronomy, technical management and rural appraisal
• Qualification awarded	Abilitazione all'esercizio della professione di Agronomo
25/07/1989	Laurea in Scienze Agrarie (curriculum produzione vegetale)
• Name and type of organisation providing education and training	UNIVERSITÀ DEGLI STUDI DI UDINE FACOLTÀ DI AGRARIA via Palladio, 8 - 33100 UDINE (ITALIA)
• Qualification awarded	Diploma di laurea quinquennale in Scienze Agrarie vecchio ordinamento con votazione finale di 110/110 (centodieci su centodieci). Tesi di laurea in Coltivazioni erbacee dal titolo "Effetti della fertilizzazione azotata e del tipo di accrescimento in soia (*Glycine max* (L.) Merr.)".
13/07/1982	Diploma di Scuola secondaria di II grado
• Name and type of organisation providing education and training	LICEO CLASSICO JACOPO STELLINI p.za I Maggio, 26 - 33100 UDINE (ITALIA)
• Qualification awarded	Maturità classica

PROGETTI FINANZIATI

01/01/2022 – 31/12/2025	*Scientific unit leader* Project 'Sensors and Digital Science' (SeDiSci8). Study of primary productivity in autotrophic organisms by means of sensor network investigation systems. Funding: 19,000 € (out of a total budget of 83,000 €)
2017-2018	*Project Principal Investigator* "Vineyard management for grapevine pathogen control: use of resistant varieties and low impact treatments" (GeViConPa). Team manager of a proposal for the PSR (Regional Development Plan), which involved participation in a first-level

evaluation for a competitive PSR call. The project was evaluated as eligible.
Funding: € 25,000.

2011-2013 *Scientific unit leader*

Research project entitled 'Integrated and sustainable vine and wine management' (Gis.Vi). Team manager of a research unit whose topic was 'Determination of antioxidant metabolites in plants during storage processes'.
Funding Institution: Friuli Venezia Giulia region.
Funding: € 35,400.

2011-2014 *Scientific unit leader*

TRANS2CARE European Interreg strategic project. Head of Unit PP8, project partner. The project was aimed at the creation of an international network, operating in different scientific fields and aimed at the development of new products and services for the improvement of the health care system. The disciplines covered ranged from mathematics to chemistry, from biology to medicine. Funding body: EU.
Funding: € 176,000 (out of a total budget of € 2,611,118).

SEMINARS AND OTHER LECTURES

16/05/2022 Seminar entitled "Remote sensing: investigation methodologies to be applied in different naturalistic contexts" for the PhD Winter School "Enabling technologies for morphological and physiological phenotyping" of the PhD in "Agricultural Sciences and Biotechnology"

12 /12/2018 Seminar at the Aczon company in Monte San Pietro (BO) entitled “Preliminary data about metal and hydroxyapatite NPs effects on plant metabolism and seed germination”.

20/11/2017 Seminar at the CNR ISTEC Institute in Faenza entitled “Plants as Me-NP bioreactors: physiological bases of the process and possible technological applications”.

03/12/2013 Seminar at the 'Department of Life Sciences' of the University of Trieste entitled “Bilitranslocase in Plants” in the framework of the “Workshop on cellular membrane transport”.

2012 Seminar at the 'Department of Life Sciences' of the University of Trieste entitled “Proteomics approaches to isolating the bilitranslocase: partial purification of the bilitranslocase-like protein from plants” within the European Strategic Project Interreg TRANS2CARE.

2009 Seminar entitled “Abiotic stresses in plants” as part of the training project between the University of Udine and the Region Friuli Venezia Giulia

2007 Seminar at the conference on “Innovation in Viticulture and Oenology” as part of the Villanova project at the Villanova winery. The presentation was entitled “Transport of anthocyanins in vine cells”.

2003 Oral communication entitled “Evidence for the presence of lipoxygenase in plant mitochondria” during the 30th GIBB Congress in San Daniele del Friuli (Udine)

2002 Oral communication entitled “Plasma membrane-associated lipoxygenase-1 detected by a polyclonal antibody” during the 41st SIFV National Congress in Riva del Garda (Trento)

1993 Seminar entitled “Lipoxygenase activity of plasmalemma and its relation to plant

	cell senescence and stress response" at the University of Szeged (Hungary), as part of the scientific exchanges of the EEC project entitled 'TEMPUS
1992	Seminar entitled ""Dissipation of the electrochemical proton gradient in phospholipase-induced degradation of plant mitochondria and microsomes" at the University of Szeged (Hungary), as part of the scientific exchanges of the EEC project named "TEMPUS"
MOTHER LANGUAGE	**ITALIAN**
OTHER LANGUAGE	**ENGLISH**
• Reading skills	excellent
• Writing skills	good
• Oral expression	good
INTERPERSONAL SKILLS AND COMPETENCES *Living and working with other people, in a multicultural environment, occupying positions where communication is important and in situations where teamwork is essential (e.g. culture and sports), etc*.	- good communication skills acquired during 25 years of teaching in bachelor and master's degree courses, as well as in scientific seminars. - excellent interpersonal skills gained through constant research activities carried out in teams with colleagues and partners, both Italian and foreign. Further training experiences have come from contacts and interactions for research projects implemented in collaboration with companies and industrial groups.
COMPUTER SKILLS AND COMPETENCE	**OFFICE SUITE:** Microsoft Office (Word, Excel, PowerPoint) **STATISTICS**: Software STATISTICA prodotto da Statsoft **IMAGING:** ImageJ **GRAPHICS**: CorelDRAW
LICENCE(S)	Driving license B
ATTACHMENTS	1 OUT OF 1: SCIENTIFIC PUBLICATIONS LIST
	Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali". (facoltativo, v. istruzioni)
Firma	

ATTACHMENT 1: scientific publication list ENRICO BRAIDOT

INTERNATIONAL PEER REVIEWED JOURNALS:

1) Vuerich M., Casolo V., Petrussa E., Boscutti F., **Braidot E.**, Filippi A., Petruzzellis F., Tomasella M., Tromba G., Pizzuto M., Nardini A. (2023) Contrasting Responses of Two Grapevine Cultivars to Drought: The Role of Non-Structural Carbohydrates in Xylem Hydraulic Recovery. Plant and Cell Physiology, 2023, pcad066; https://doi.org/10.1093/pcp/pcad066

2) Vuerich M., Petrussa E., Filippi A., Cluzet S., J. Valls Fonayet, Sepulcri A., Piani B., Ermacora P., **Braidot E.**, Secchi F. (2023) Antifungal activity of chili pepper extract with potential for the control of some major pathogens in grapevine. *Pest Management Science* **79**(7), 2503-2516; https://DOI:10.1002/ps.7435

3) Vuerich M.; Trotta G.; **Braidot E.**; Petrussa E.; Casolo V.; Alberti G.; Boscutti F. (2023) From wood anatomy to satellites: new frontiers for the upscaling of climate change in the Alpine tundra. *EGU General Assembly 2023*. https://DOI:10.5194/egusphere-egu23-4413

4) Mendel P., Vyhnánek T., **Braidot E.**, Filippi A., Trojan V., Bjelková M., Vaverková M.D., Adamcová D., Zloch J., Brtnický M., Đorđević B. (2022) Fiber Quality of Hemp (*Cannabis sativa* L.) Grown in Soil Irrigated by Landfill Leachate Water. *Journal of Natural Fibers,* **19**(9), 3288–3299 ISSN: 1544-0478; https://DOI:10.1080/15440478.2020.1843101

5) Vuerich M., Braidotti R., Sivilotti P., Alberti G., Casolo V., **Braidot E.**, Boscutti F., Calderan A., Petrussa E. (2021) Response of merlot grapevine to drought is associated to adjustments of growth and nonstructural carbohydrates allocation in above and underground organs. *Water*, **13**(17) ISSN: 2073-4441; https://DOI:10.3390/w13172336

6) Fellet, G., Pilotto, L., Marchiol, L., **Braidot, E.** (2021) Tools for nano-enabled agriculture: Fertilizers based on calcium phosphate, silicon, and chitosan nanostructures. **Review** *Agronomy*, **11**(6), 1239. https://DOI:10.3390/agronomy11061239

7) Filippi A., **Braidot E.**, Petrussa E., Fabro M., Vuerich M., Boscutti F. (2021) Plant growth shapes the effects of elevation on the content and variability of flavonoids in subalpine bilberry stands. *Plant Biology*, **23**(2), 241–249. https://DOI:10.1111/plb.13194

8) Zancani, M., **Braidot E.**, Filippi, A., Lippe, G. (2020) Structural and functional properties of plant mitochondrial F-ATP synthase. **Review** *Mitochondrion*, 53, 178–193. https://DOI:10.1016/j.mito.2020.06.001

9) Casolo V., **Braidot E.**, Petrussa E., Zancani M., Vianello, A. Boscutti, F. (2020) Relationships between population traits, nonstructural carbohydrates, and elevation in alpine stands of *Vaccinium myrtillus*. *American Journal of Botany*, **107**(4), 639–649. https://DOI:10.1002/ajb2.1458

10) Falchi, R., Petrussa, E., **Braidot, E.**, Sivilotti P., Boscutti F., Vuerich M, Calligaro C., Filippi A., Herrera J.C., Sabbatini P., Zancani M., Nardini A. Peterlunger, E., Casolo, V. (2020) Analysis of non-structural carbohydrates and xylem anatomy of leaf petioles offers new insights in the drought response of two grapevine cultivars. *International Journal of Molecular Sciences*, 21(4), 1457. https://DOI:10.3390/ijms21041457

11) Mendel P., Schiavo-Capri E., Lalge A.B., Vyhnanek T., Kalousek, P., Trojan, V., Havel, L., Filippi, A., **Braidot E.** (2020) Evaluation of selected characteristics in industrial hemp after phytohormonal treatment. *Pakistan Journal of Agricultural Sciences*, **57**(1), 1–7. https://DOI:10.21162/PAKJAS/20.7586

12) Filippi, A., Petrussa, E., Boscutti, F., Vuerich M., Vrhovsek, U., Rabiei, Z., **Braidot, E.** (2019) Bioactive polyphenols modulate enzymes involved in grapevine pathogenesis and chitinase activity at increasing complexity levels. *International Journal of Molecular Sciences*, **20**(24), 6357. https://DOI:10.3390/ijms20246357

13) Marchiol L., Filippi A., Adamiano A., Degli Esposti L., Iafisco M., Mattiello A., Petrussa E., **Braidot E.** (2019) Influence of hydroxyapatite nanoparticles on germination and plant metabolism of tomato (*Solanum lycopersicum* L.): preliminary evidence (2019). *Agronomy* vol. **9**(4), 161-177. https://DOI:10.3390/agronomy9040161

14) Filippi A., Zancani E., Petrussa E., **Braidot E.** (2019) Caspase-3-like activity and proteasome degradation in grapevine suspension cell cultures undergoing silver-induced programmed cell death. *Journal of Plant Physiology* - ISSN:0176-1617 - **233**, 42-51. https://DOI:10.1016/j.jplph.2018.12.003

15) De Col V., Petrussa E., Casolo V., **Braidot E.**, Lippe G., Filippi A., Peresson C., Patui S., Bertolini A., Giorgio V., Checchetto V., Vianello A., Bernardi P., Zancani M. (2018) Properties of the permeability transition of pea stem mitochondria. *Frontiers in Physiology* - ISSN:1664-042X – **9,** (Nov) art. n. 1626, 1-12. https://DOI:10.3389/fphys.2018.01626

16) Boscutti F., Casolo V., Beraldo P., **Braidot E.**, Zancani M., Rixen C. (2018) Shrub growth and plant diversity along an elevation gradient: Evidence of indirect effects of climate on alpine ecosystems. Plos One - ISSN 1932-6203. - elettronico. – **13,** (4), p. e0196653. https://DOI:10.1371/journal.pone.0196653.pp.e0196653

17) Filippi, A., Mattiello, A., Musetti, R., Petrussa, E., **Braidot, E.**, Marchiol, L. (2017) Green synthesis of Ag nanoparticles using plant metabolites. *AIP Conference Proceedings* of the 1st NanoInnovation 2016, **1873**(2), art. n. 020004, https://DOI:10.1063/1.4997133

18) Bertolini A., Petrussa E., Patui S., Zancani M., Peresson C., Casolo V., Vianello A., **Braidot E.** (2016) Flavonoids and darkness lower PCD in senescing *Vitis vinifera* suspension cell cultures. *BMC Plant Biology*, **16**, art. n. 233, 1-11. https://DOI:10.1186/s12870-016-0917-y

19) Filippi A., Petrussa E., Rajcevic U., Čurin Šerbec V., Passamonti S., Renzone G., Scaloni A., Zancani M., Vianello A., **Braidot E.** (2016) Flavonoid interaction with a chitinase from grape berry skin: protein identification and modulation of the enzymatic activity. *Molecules* **21**: 1300. https://DOI:10.3390/molecules21101300

20) Zancani M., Casolo V., Petrussa E., Peresson C., Patui S., Bertolini A., De Col V., **Braidot E.**, Boscutti F. and Vianello A. (2015) The permeability transition in plant mitochondria: the missing link. **Review** *Frontiers in Plant Science* **6**: 1120. https://DOI:10.3389/fpls.2015.01120

21) Filippi A., Petrussa E., Peresson C., Bertolini A., Vianello A., **Braidot E.** (2015) *In vivo* assay to monitor flavonoid uptake across plant cell membranes. *FEBS Open Bio* **5**: 748-752. https://DOI:10.1016/j.fob.2015.08.009

22) Casolo V., Tomasella M., De Col V., **Braidot E.**, Savi, T., Nardini A. (2015) Water relations of an invasive halophyte (*Spartina patens*): Osmoregulation and ionic effects on xylem hydraulics. *Functional Plant Biology* **42**(3): 264-273. https://DOI:10.1071/FP14172

23) Peresson C., Petrussa E., Filippi A., Tramer F., Passamonti S., Rajcevic U., Montanič S., Terdoslavich M., Čurin Šerbec V., Vianello A., **Braidot E.** (2014) Involvement of mammalian bilitranslocase-like protein(s) in chlorophyll catabolism of *Pisum sativum* L. tissues. *Journal of Bioenergetics and Biomembranes*. **46**(2): 109-117. https://DOI:10.1007/s10863-014-9539-y

24) Patui S., Clincon L., Peresson C., Zancani M., Conte L., Del Terra L., Navarini L., Vianello A. and **Braidot E.** (2014) Lipase activity and antioxidant capacity in coffee (*Coffea Arabica* L.) seeds during germination. *Plant Science* **219-220**: 19-25. https://DOI:10.1016/j.plantsci.2013.12.014

25) **Braidot E.**, Petrussa E., Peresson C., Patui S., Bertolini A., Tubaro F., Wählby U., Coan M., Vianello A. and Zancani M. (2014) Low-intensity light cycles improve the quality of lamb's lettuce (*Valerianella olitoria* [L.] Pollich) during storage at low temperature *Postharvest Biology and Technology* **90**: 15-23. https://DOI:10.1016/j.postharvbio.2013.12.003

26) Patui S., Bertolini A., Clincon L., Ermacora P., **Braidot E.**, Vianello A., Zancani M. (2013) Involvement of plasma membrane peroxidases and oxylipin pathway in the recovery from phytoplasma disease in apple (*Malus domestica*). *Physiologia Plantarum* **148**(2): 200-213. https://DOI:10.1111/j.1399-3054.2012.01708.x

27) Petrussa E., **Braidot E.**, Zancani M., Peresson C., Bertolini A., Patui S., Vianello A. (2013) Plant flavonoids - biosynthesis, transport and involvement in stress responses. **Review**. *International Journal of Molecular Science* **14**(7): 14950-14973. https://DOI:10.3390/ijms140714950

28) Vianello A., Casolo V., Petrussa E., Peresson C., Patui S., Bertolini A., Passamonti S., **Braidot E.**, Zancani M. (2012) The Mitochondrial Permeability Transition Pore (PTP) - An Example of Multiple Molecular Exaptation? **Review**. *BBA Bioenergetics*, **1817**: 2072-2086. https://DOI:10.1016/j.bbabio.2012.06.620

29) Pasquini S., Mizzau M., Petrussa E., **Braidot E.**, Patui S., Gorian F., Lambardi M., Vianello A. (2012) Seed storage in polyethylene bags of a recalcitrant species (*Quercus ilex*): analysis of some bio-energetic and oxidative parameters. *Acta Physiologiæ Plantarum*, **34**: 1963-1974. ISSN: 0137-5881, https://DOI10.1007/s11738-012-0996-9

30) Pasquini S., **Braidot E.**, Petrussa E., Vianello A. (2011) Effect of different storage conditions in recalcitrant seeds of Holm oak (*Quercus ilex* L.). *Seed Science and Technology*. **39**(1): 165-177. ISSN: 0251-0952, online ISSN: 1819-5717.

31) Patui S., **Braidot E.**, Peresson C., Tubaro F., Mizzau M., Rabiei Z., Conte L., Macrì F. and Vianello A. (2010) Lipoxygenase and hydroperoxide lyase activities in two olive varieties from Northern Italy. *European Journal of Lipid Science and Technology*. **112**(7): 780-790. https://DOI:10.1002/ejlt.200900167

32) Passamonti S., Tramer F., Petrussa E., **Braidot E.** and Vianello A. (2010) Book Chapter 21 "Electrogenic Bromosulfalein Transport in Isolated Membrane Vesicles: Implementation in Both Animal and Plant Preparations for the Study of Flavonoid Transporters" *in* Plant Secondary Metabolism Engineering Methods and Applications (Series: Methods in Molecular Biology). Fett-Neto, Arthur Germano (Ed.) Humana Press. Vol. 643: 307-335, ISBN: 978-1-60761-722-8, https://DOI:10.1007/978-1-60761-723-5_21

33) Petrussa E., **Braidot E.**, Zancani M., Peresson C., Bertolini A., Patui S., Casolo V., Passamonti S., Macrì F. and Vianello A. (2010) Book Chapter 20 "Immunohistochemical Localization of a Putative Flavonoid Transporter in Grape Berries" *in* Plant Secondary Metabolism Engineering Methods and Applications (Series: Methods in Molecular Biology). Fett-Neto, Arthur Germano (Ed.) Humana Press., Vol. 643: 291-306, ISBN: 978-1-60761-722-8, https://DOI:10.1007/978-1-60761-723-5_20

34) Bertolini A., Peresson C., Petrussa E., **Braidot E.**, Passamonti S., Macrì F. and Vianello A. (2009) Identification and localisation of the bilitranslocase homologue in white grape berries (*Vitis vinifera* L.) during ripening. *Journal of Experimental Botany*. **60**(13): 3861-3871.

35) Passamonti S., Terdoslavich M., Franca R., Vanzo A., **Braidot E.**, Tramer F., Petrussa E. and Vianello A. (2009) Bioavailability of flavonoids: the matter of their membrane transport and the function of bilitranslocase in animal and plant organisms. **Review**. *Current Drug Metabolism*. **10**: 369-394.

36) **Braidot E.**, Petrussa E., Bertolini A., Peresson C., Ermacora P., Loi N., Passamonti S., Terdoslavich M., Macrì F. and Vianello A. (2008) Evidence for a putative flavonoid translocator similar to mammalian bilitranslocase in grape berries (*Vitis vinifera*, L.) during ripening. *Planta*. **228**(1): 203-213.

37) **Braidot E.**, Zancani M., Petrussa E., Peresson C., Bertolini A., Patui S., Macrì F. and Vianello A. (2008) Transport and Accumulation of Flavonoids in Grapevine (*Vitis vinifera*, L.). **Review**. *Plant Signaling & Behavior*. **3**(9): 626-632.

38) Patui S., Peresson C., **Braidot E.**, Tubaro F., Colussi A., Bonnländer B., Macrì F. and Vianello A. (2007) Lipoxygenase Distribution in Coffee (*Coffea arabica* L.) Berries. *Journal of Agriculture and Food Chemistry*. **55**(20), 8223-8230.

39) Vianello A., Zancani M., Peresson C., Petrussa E., Casolo V., Krajňáková J., Patui S., **Braidot E.** and Macrì F. (2007) Plant mitochondrial pathway leading to programmed cell death. **Review**. *Physiologia Plantarum* **129**, 242-252.

40) Passamonti S., Cocolo A., **Braidot E.**, Petrussa E., Peresson C., Medic N., Macrì F. and Vianello A. (2005) Characterization of electrogenic bromosulfophthalein transport in carnation petal microsomes and its inhibition by antibodies against bilitranslocasi. *FEBS Journal* **272**(13), 3282-3296.

41) **Braidot E.**, Petrussa E., Micolini S., Vianello A. and Macrì F. (2004) Biochemical and immunochemical evidence for the presence of lipoxygenase in plant mitochondria. *Journal of Experimental Botany* **55**(403), 1655-1662.

42) Petrussa E., Casolo V., Peresson C., **Braidot E.**, Vianello A. and Macrì F. (2004) The K^+_{ATP} channel is involved in a low-amplitude permeability transition in plant mitochondria. *Mitochondrion* **3**(5), 297-307.

43) Casolo V., **Braidot E.**, Chiandussi E., Vianello A. and Macrì F. (2003) K^+_{ATP} channel opening prevents succinate-dependent H_2O_2 generation by plant mitochondria. *Physiologia Plantarum* **118**, 313-318.

44) **Braidot E.**, Micolini S., Risso A., Macrì F. and Vianello A. (2003) Immunochemical evidence for the presence of a LOX 1 in isolated plasma membranes from soybean cotyledons. *Plant Science*, **164**(1), 9-16.

45) Risso A., **Braidot E.**, Sordano M.C., Vianello A., Macrì F., Skerlavaj B., Zanetti M., Gennaro R. and Bernardi P. (2002) BMAP-28, an Antibiotic Peptide of Innate Immunity, Induces Cell Death Through Opening of the Mitochondrial Permeability Transition Pore. *Molecular and Cellular Biology*, **22**(6), 1926-1935.

46) Petrussa E., Casolo V., **Braidot E.**, Macrì F. and Vianello A. (2001) Cyclosporin A induces the opening of a potassium-selective channel in higher plant mitochondria. *Journal of Bioenergetics and Biomembranes*, **33**(2), 107-117.

47) Casolo V., **Braidot E.**, Chiandussi E., Macrì F. and Vianello A. (2000) The role of mild uncoupling and non-coupled respiration in the regulation of hydrogen peroxide generation by plant mitochondria. *FEBS Lett.*, **474**, 53-57.

48) **Braidot E.**, Petrussa E., Vianello A. and Macrì F. (1999) Hydrogen peroxide generation by higher plant mitochondria oxidizing Complex I or Complex II substrates. *FEBS Lett.*, **451**, 347-350.

49) Fornaroli S., Petrussa E., **Braidot E.**, Vianello A. and Macrì F. (1999) Purification of a plasma membrane-bound lipoxygenase from soybean cotyledons. *Plant Science*, **145**, 1-10.

50) **Braidot E.**, Petrussa E., Macrì F. and Vianello A. (1998) Plant mitochondrial electrical potential monitored by fluorescence quenching of rhodamine 123. *Biologia Plantarum*, **41**(2), 193-201.

51) Vianello A., **Braidot E.**, Petrussa E. and Macrì F. (1997) ATP synthesis driven by a-keto acid stimulated alternative oxidase in pea leaf mitochondria. *Plant Cell Physiology*, **38**(12), 1368-1374.

52) Macrì F., Vianello A., **Braidot E.**, Petrussa E. and Mokhova E.N. (1996). Zearalenone-induced uncoupling in plant mitochondria is sensitive to 6-ketocholestanol. *Biochemistry and Molecular Biology International,* **39**, 1001-1006.

53) Macrì F., **Braidot E.**, Petrussa E. and Vianello A. (1995). Lipoxygenase Activity of Plasmalemma and its Relation to Plant Cell Senescence and Stress Response. *Acta Phytopathologica et Entomologica Hungarica*, **30**(1-2), 81-87.

54) Vianello A., Macrì F., **Braidot E.** and Mokhova E. N. (1995) Effect of cyclosporin A on energy coupling in pea stem mitochondria. *FEBS Lett.*, **371**, 258-260.

55) Vianello A., Macrì F., Braidot E. and Mokhova E. N. (1995) Effect of 6-ketocholestanol on FCCP and DNP-induced uncoupling in plant mitochondria. *FEBS Lett.*, **365**, 7-9.

56) Vianello A., Braidot E., Bassi G. and Macrì F. (1994) Lipoxygenase activity on the plasmalemma of sunflower protoplasts and its modulation. *Biochimica Biophysica Acta*, **1255**, 57-62.

57) Macrì F., **Braidot E.**, Petrussa E. and Vianello A. (1994) Lipoxygenase activity associated to isolated soybean plasma membranes. *Biochimica Biophysica Acta*, **1215**, 109-114.

58) Vianello, A., **Braidot, E.**, Petrussa, E., Macri, F. (1993) Phospholipase - Induced collapse of electrochemical potential in isolated plant membranes. *Giornale Botanico Italiano*, **127**, (1), 204.

59) Petrussa, E., **Braidot, E.**, Nagy, G., Vianello, A., Macri, F. (1993) Free fatty acids dissipate electrical potential in isolated pea stem mitochondria. *Giornale Botanico Italiano*, **127**, (1) 199-200.

60) **Braidot E.**, Vianello A., Petrussa E. and Macrì F. (1993). Dissipation of the electrochemical proton gradient in phospholipase-induced degradation of plant mitochondria and microsomes. *Plant Science*, **90**, 31-39.

61) Petrussa E., **Braidot E.**, Nagy G., Vianello A. and Macrì F. (1992). Electrical potential dissipation induced by free fatty acids in pea stem mitochondria. *FEBS Lett.*, **307**, 267-271.

62) Macrì F., **Braidot E.**, Petrussa E., Zancani M. and Vianello A. (1992). Ferric ion and oxygen reduction at the surface of protoplast and cells of *Acer pseudoplatanus*. *Botanica Acta*, **105**, 97-103.

63) Macrì F., Vianello A., **Braidot E.** and Zancani M. (1991). Free fatty acids dissipate proton electrochemical gradients in pea stem microsomes and submitochondrial particles. *Biochimica Biophysica Acta, Bioenergetics*, **1058**, 249-255.

64) Vianello A., Zancani M., **Braidot E.**, Petrussa E. and Macrì F. (1991) Proton Pumping Inorganic Pyrophosphatase of Pea Stem Submitochondrial Particles. *Biochimica Biophysica Acta, Bioenergetics* **1060**, 299-302.

65) Vianello, A., Macri, F., Zancani, M., **Braidot, E.** (1990) Acridine orange as a useful probe to measure trans-tonoplast ΔpH in *Acer pseudoplatanus* protoplasts. *Giornale Botanico Italiano*, **124**, (4), 66-67.

66) Macri, F., Vianello, A., **Braidot, E.**, Zancani, M., Petrussa, E. (1990) Effect of free fatty acids on proton gradients of pea stem microsomes and submitochondrial particles. *Giornale Botanico Italiano* **124**, (4) 51-52.