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Decreto Rettore Università di Roma “La Sapienza” 2267/2021 del 09.08.2021

FEDERICA DELLA ROVERE

Curriculum Vitae

Place: Rome (Italy)

Date: September 30, 2021

Part I – General Information

Full Name	Federica Della Rovere
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Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
National Scientific Qualification (ASN)	12/11/2020	MIUR	National Scientific Qualification as Associate Professor 05/A1, Botany, until 12/11/2029.
PhD	2013	Sapienza University of Rome	Doctoral Degree in Botanical Sciences. Title of the PhD thesis: “The organization of the quiescent centre and the stem cell niche in <i>Arabidopsis thaliana</i> adventitious root apices”. Final vote: excellent
Post-graduate studies	2009-2012	Sapienza University of Rome	PhD study in Botanical Sciences (XXV Cycle)
University graduation	2006	Sapienza University of Rome	Master Degree in Environmental Monitoring and Control of Environmental Changes. Title of the thesis: “La bromoproteina GTE4 di <i>Arabidopsis thaliana</i> influenza lo sviluppo della pianta modulando la distensione cellulare”. Vote: 110/110 with honours
University graduation	2004	Sapienza University of Rome	Bachelor Degree in Environmental Science. Title of the thesis: “Le lacune rameali e fogliari nel caule di <i>Arabidopsis thaliana</i> in relazione alle variazioni di posizione radiale degli organi laterali in risposta allo stress”.

Vote: 110/110 with honours

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
01/10/2018	30/09/2021	Sapienza University of Rome, Department of Environmental Biology	RTDA (SSD BIO/01), research title: Cyto-histological analysis of root formation <i>in planta</i> and <i>in vitro</i> systems in relation to the development of the plant and to the mechanisms of adaptation to environmental stress.
01/05/2015	05/04/2017 (suspended for maternity from 26/10/2015 to 30/09/2016)	Sapienza University of Rome, Department of Environmental Biology	PostDoc (SSD BIO/01), research title: Study of the heavy metal and metalloid effects on the apical meristem organization of the <i>Arabidopsis thaliana</i> adventitious root.
05/05/2009	30/11/2009	Sapienza University of Rome, Department of Environmental Biology (ex Department of Plant Biology)	Co.co.co, (SSD BIO/01), research title: “Advanced technical applications in optical epifluorescence microscopy and optical interference microscopy”
01/06/2007	31/03/2009	Sapienza University of Rome, Department of Environmental Biology (ex Department of Plant Biology)	Co.co.co, (SSD BIO/01), research title: “Advanced technical applications in optical epifluorescence microscopy and optical interference microscopy and quantitative evaluations in image analysis”

IIIB – Other Appointments

Start	End	Institution	Position
09/2021	at present	Plants	Guest Editor for Special Issue "Root: From Signaling to Morphogenesis"
01/2021	01/2021	Sapienza University of Rome, Department of Environmental Biology	Member of the commission for “tutoring scholarships in Botany course” (type B1)
01/2020	at present	Annali di Botanica	Editorial Board Member of “Annali di Botanica” as Assistant Editor
02/2020	at present	Plants	Editorial Board Member of “Plants”, “Plant-Soil Interactions”

			section
25/09/14	16/12/14	Institute Agriculture Technical "Emilio Sereni" Rome	Contract of technical assistant (ATA)
08/01/14	02/02/14	Institute Agriculture Technical "Emilio Sereni" Rome	Contract of technical assistant (ATA)
20/02/2014	02/03/2014	Institute "via Poseidone" Rome	Contract of administrative assistant (ATA)
2010	2012	Sapienza University of Rome, Department of Environmental Biology	Representative of PhD students in the Department Council
01/05/2000	31/05/2001	Institute of Plant Pathology of Rome	Contract for the project "Gestione delle pinete di pino domestico a Castel Fusano nella Riserva Naturale del litorale Romano"

Part IV – Teaching experience

Years	Institution	Lecture/Course/Thesis/Examiner
2020-2021	Sapienza University of Rome, Department of Environmental Biology	Co-tutor of the Master Degree thesis in Natural Sciences, entitled: "Effetto combinato di epibrassinolide e monossido di azoto nella risposta al cadmio dell'apparato radicale di <i>Arabidopsis thaliana</i> "
2020-2021	Sapienza University of Rome, Department of Environmental Biology	Co-tutor of the Master Degree thesis in Monitoring and Environmental Regeneration, entitled: "Effetto dei brassinosteroidi sulla radicazione di <i>Arabidopsis thaliana</i> (L.) Heynh in presenza di cadmio"
2018	at present	Member of the examination commission of the following courses: "Botanica" (Bachelor Degree Biotecnologie Agroindustriali), "Botanica sperimentale" (Master Degree in Monitoraggio e riqualificazione ambientale), "Botanica morfofunzionale" (Bachelor Degree in Scienze Ambientali) "Botanica e diversità vegetale" (Bachelor Degree in Scienze Biologiche)
2020-2021	Sapienza University of Rome, Department of Environmental Biology	Tutor of two Bachelor Degree thesis (degree course: Natural Sciences), entitled: "Il ruolo delle piante nel miglioramento della qualità dell'aria indoor", "La fitodecontaminazione dei suoli inquinati da metalli pesanti: il ruolo delle felci"

2020-2021	Sapienza University of Rome, Department of Environmental Biology	Teacher of the course “General Botany” (Bachelor degree course: Natural Sciences), 8 CFU, SSD BIO/01
2019-2020	Sapienza University of Rome, Department of Environmental Biology	Teacher of the course “General Botany” (Bachelor degree course: Natural Sciences), 9 CFU, SSD BIO/01
2018-2019	Sapienza University of Rome, Department of Environmental Biology	Teacher of the course “Botany and plant diversity” (Bachelor degree course: Natural Sciences), 9 CFU, SSD BIO/01
2019-2020	Sapienza University of Rome, Department of Environmental Biology	Tutor of three Bachelor Degree thesis (degree course: Natural Sciences), entitled: “La radicazione avventizia: ontogenesi, controllo ormonale e genico e ruolo nell'adattamento delle piante all'ambiente”, “Le risposte morfo-funzionali delle piante ai cambiamenti climatici”, “I muschi come biomonitor dell'inquinamento ambientale dai metalli tossici”
2014-2015	Sapienza University of Rome, Department of Environmental Biology	Member of the examination board for the teaching courses of “Cell plasticity and dynamics of differentiation in the plants”, for the Master Degree in Biology and technology cellular”
2013	Sapienza University of Rome, Department of Environmental Biology	Tutor for the bachelor students in ‘Natural Sciences’ and ‘Environmental Sciences’ for the laboratory activities of Botany and Morpho-functional Botany
2012	Sapienza University of Rome, Department of Environmental Biology	Tutor for the bachelor students in “Agro-Industrial Biotechnologies” for the laboratory activities of Botany
2011-2012	Sapienza University of Rome, Department of Environmental Biology	Co-tutor of the Master Thesis in Environmental Monitoring and Recovery, entitled: “Studio fenotipico e cito-istologico della radicazione avventizia in mutanti di <i>Arabidopsis thaliana</i> (L.) Heynh alterati nell'organizzazione della radice primaria”

Part V - Society memberships, Awards and Honors

Year	Title
2016	Winner of project start-up research, type 2, of “Sapienza” University of Rome, with title “Effects of the heavy metal and semimetal on the genes activity involved in the adventitious root, vascular differentiation and in the xylogenesis <i>in planta</i> and in the <i>in vitro</i> systems”.
2015	Winner of the award for the best PhD thesis of the “Sapienza” University of Rome organized by “Sapienza Università Editrice”
2015	Scholarship for the participation to “110 th Congress SBI 2015 “II International Plant Science Conference–Not only food: sustainable development, agro-biodiversity conservation & human well being”, Pavia, 14-17 September
2014	“Società Botanica Italiana Onlus” award for the PhD thesis (BIO/01) for the year 2014
2014-2016/2021	Membership of “Società Botanica Italiana” (SBI), and member of the board of the “biotechnology and differentiation group” of the same society from 2021
2012	Scholarship COST-TS-ECOST-TRAINING_SCHOOL-FA0903-250912-018711 for the participation to “5 th International PhD School Plant Development”, Pontignano, Siena, 25-28 September

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2020	Adventitious rooting vs xylary development: the integration of jasmonates and brassinosteroids into cell reprogramming in response to heavy metals and metalloids in the model plants Arabidopsis and rice. (I)	Research project Ateneo 2020, Sapienza University of Rome, prot. RG120172B773D1FF	50,000 Euros
2019	Plant root system plasticity: the developmental switching between rhizogenesis and xylogenesis. (PI)	Research project Ateneo 2019, Sapienza University of Rome, prot. RM11916B558D1F93	15,000 Euros
2019	Integrated Smart PHYTOTRON for simulations of global change environmental conditions to analyze and monitor in real time the morpho-functional effects of biotic and abiotic stress on natural and crop plant species. (I)	Research project Ateneo 2019, Sapienza University of Rome, prot. GA11916BD0C2EE79	530,000 Euros

2016	Effects of heavy metals and semimetals on the activity of genes involved in adventitious rooting and in vascular differentiation and xylogenesis in plant and <i>in vitro</i> culture systems. (PI)	Research project Start Research 2016, Sapienza University of Rome, prot. AR216154CA0157E0	2,300 Euros
2015	Olive tree adaptative responses to abiotic and biotic stresses: detection of tolerance determinants (I)	Research project AWARDS Ateneo 2015, Sapienza University of Rome, prot. C26H157ANK	43,450 Euros
2014	Crosstalk between Reactive Oxygen Species, jasmonates and lipid peroxidation during root formation and development in response to heavy metals, metalloids and fungus infection. (I)	Research project Ateneo 2014, Sapienza University of Rome, prot. C26A14AFZ7	50,000 Euros
2012	Olive tree cold response and selection of cold-induced markers for oil quality. (I)	Research project Ateneo 2012, Sapienza University of Rome, prot. C26A123KLY	15,000 Euros
2009	Development of <i>Arabidopsis thaliana</i> root system. (I)	Research project Ateneo 2009, Sapienza University of Rome, prot. C26A09YJXM	11,000 Euros
2008	Development Biology of <i>Arabidopsis thaliana</i> and other model plants. (I)	Research project Ateneo 2008, Sapienza University of Rome, prot. C26A08KTJL	20,000 Euros
2007	Molecular and cyto-histological features of <i>Arabidopsis thaliana</i> development. (I)	Research project Ateneo 2007, Sapienza University of Rome, prot. C26A07MWH9	33,600 Euros
2006	Control factors in plant development biology and in responses to biotic and abiotic stresses. (I)	Research project Ateneo 2006, Sapienza University of Rome, prot. Prot. C26A06EK9E	38,600 Euros
2005	Plant development and the control factors. (I)	Research project Ateneo 2005, Sapienza University of Rome, prot. C26A055742	23,000 Euros

Part VII- Eligibility to public examinations

2000	Eligibility to public examination for n. 50 places of “vice revisore in prova profilo professionale di vice revisore forestale” called with Ministerial Decree 27 December 2000 from “Ministero delle Politiche Agricole e Forestali”.
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Part VIII – Specialization courses with certificate

Year/s	Institution	Course
2019	University of Modena and Reggio Emilia, Modena	III Course in Electron Microscopy and Confocal in botanical field
2011	Filarete foundation, Imaging Cellular and Molecular platform, Milano	Theoretical and Practical Confocal Microscopy Course
2006	Società Botanica Italiana, Sabaudia	Techniques Vanguard Microscopy as Tool of Analysis Cellular and Tissue in Plant Organism
2005	Comieco, Rome	Prevention, waste management and recycled products
2000-2002	Regione Lazio, Rome	Job and environment safety Technician, expert in Environmental Audit in the form that integrates environmental/quality/safety
2000	ECIPA Lazio, Rome	Telematic Operator
1999	CIPA.AT Lazio, Rome	Environment protection Technician

Part IV – Research Activities

Keywords	Brief Description
Chromatin remodelling	Main PostDoc experiences: 1) Effects of brassinosteroids and cadmium/arsenic on root development of <i>Arabidopsis thaliana</i> ; 2) Hormonal and genetic control involved in xylogenesis <i>in planta</i> and <i>in vitro</i> , by using the thin cell layers system, of <i>Arabidopsis thaliana</i> ; 3) Effects of cadmium and arsenic on root apical meristem in <i>Arabidopsis thaliana</i> and on auxin transport. 4) Effects of cadmium and arsenic on capabilities/strategies of <i>Pteris vittata</i> to hyperaccumulate them.
Adventitious root	
<i>In vitro</i> culture	
Confocal microscopy	
Xylogenesis	Main PhD experience: mechanisms affecting the initiation and development of adventitious roots <i>in planta</i> and <i>in vitro</i> systems in <i>Arabidopsis thaliana</i> , with a special interest in the genetic and hormonal control affecting this organogenic process.
Cyto-histology	
Heavy metal	
RNA <i>in situ</i> hybridization	
Brassinosteroids	December 2011: Molecular biology experiments at the Developmental Biology Laboratory, University of Milan, Italy, research group of Prof. Lucia Colombo, in order to prepare specific probes for <i>in situ</i> hybridization
	2007-2009: 1) Study of somatic embryogenic process in <i>Cyclamen persicum</i> ; 2) Functional analysis of the bromoprotein GTE4 of <i>Arabidopsis thaliana</i> , involved in the activation and maintenance of cell division in the meristems; 3) Study of the relationship between oligogalacturonides (OGs), cytokinin, calcium, and polyamines in <i>Nicotiana tabacum</i> adventitious vegetative shoot formation

Part X – Summary of overall Scientific Achievements (Scopus Data Base)

Product type	Number	Data Base	Start	End
Papers [international]	22	Scopus	2008	2021
Papers [national]				
Books [scientific]	1	Scopus	2008	2021
Books [teaching]				

Total Impact factor	82.094
Average Impact factor per product	4.104
Total Citations	572 (Scopus; September 30, 2021)
Average Citations per Product	24.87
Hirsch (H) index	15 (Scopus; September 30, 2021)
Normalized H index*	1.154

*H index divided by the academic seniority.

Part XI– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

- 1) Betti C., **Della Rovere F.**, Piacentini D., Fattorini L., Falasca G., Altamura M.M. (2021). *Jasmonates, Ethylene and Brassinosteroids Control Adventitious and Lateral Rooting as Stress Avoidance Responses to Heavy Metals and Metalloids*. *Biomolecules* (**I.F. 4.879**) 11(1): 77. DOI: 10.3390/biom11010077. **Citations: 3**
- 2) Piacentini D., Ronzan M., Fattorini L., **Della Rovere F.**, Massimi L., Altamura M. M., Falasca G. (2020). *Nitric oxide alleviates cadmium- but not arsenic-induced damages in rice roots*. *Plant Physiology and Biochemistry* (**I.F. 4.270**) 151: 729-742, DOI: 10.1016/j.plaphy.2020.04.004. **Citations: 9**
- 3) Piacentini D., **Della Rovere F.**, Sofo A., Fattorini L., Falasca G., Altamura M.M. (2020). *Nitric Oxide Cooperates With Auxin to Mitigate the Alterations in the Root System Caused by Cadmium and Arsenic*. *Frontiers in Plant Science* (**I.F. 5.753**) 11:1182. DOI:10.3389/fpls.2020.01182. **Citations: 8**
- 4) **Della Rovere F.**, Fattorini L., Ronzan M., Falasca G., Altamura M. M., Betti C. (2019). *Jasmonic acid methyl ester induces xylogenesis and modulates auxin-induced xylary cell identity with NO Involvement*. *International Journal of Molecular Sciences* (**I.F. 4.556**) 20: 1-19, DOI: 10.3390/ijms20184469. **Citations: 3**
- 5) Ronzan M., Piacentini D., Fattorini L., **Della Rovere F.**, Eiche E., Riemann M., Altamura M. M., Falasca G. (2018). *Cadmium and arsenic affect root development in *Oryza sativa* L. negatively interacting with auxin*. *Environmental and Experimental Botany* (**I.F. 3.712**) 151: 64-75, DOI: 10.1016/j.envexpbot.2018.04.008. **Citations: 40**
- 6) Fattorini L., Hause B., Gutierrez L., Velocchia A., **Della Rovere F.**, Piacentini D., Falasca G., Altamura M.M. (2018). *Jasmonate promotes auxin-induced adventitious rooting in dark-*

grown *Arabidopsis thaliana* seedlings and stem thin cell layers by a cross-talk with ethylene signalling and a modulation of xylogenesis. *BMC Plant Biology* (**I.F. 3.670**) 18: 1-18, DOI: 10.1186/s12870-018-1392-4. **Citations: 21**

7) Fattorini L., **Della Rovere F.**, Andreini E., Ronzan M., Falasca G., Altamura M. M. (2017). *Indole-3-butyric acid induces ectopic formation of metaxylem in the hypocotyl of Arabidopsis thaliana without conversion into indole-3-acetic acid and with a positive interaction with ethylene*. *International Journal of Molecular Sciences* (**I.F. 3.687**) 18: 2474, DOI: 10.3390/ijms18112474. **Citations: 14**

8) Fattorini L.*, Veloccia A.*, **Della Rovere F.***, D'Angeli S., Falasca G., Altamura M. M. (2017). *Indole-3-butyric acid promotes adventitious rooting in Arabidopsis thaliana thin cell layers by conversion into indole-3-acetic acid and stimulation of anthranilate synthase activity*. *BMC Plant Biology* (**I.F. 3.930**) 17: 121. DOI: 10.1186/s12870-017-1071-x. **Citations: 32**

***These authors contributed equally to this work.**

9) Fattorini L., Ronzan M. Piacentini D., **Della Rovere F.**, De Virgilio C., Sofo A., Altamura M.M., Falasca G. (2017). *Cadmium and arsenic affect quiescent centre formation and maintenance in Arabidopsis thaliana post-embryonic roots disrupting auxin biosynthesis and transport*. *Environmental and Experimental Botany* (**I.F. 3.666**) 144: 37-48, DOI: 10.1016/j.envexpbot.2017.10.005. **Citations: 27**

10) Veloccia A., Fattorini L., **Della Rovere F.**, Sofo A., D'Angeli S., Betti C., Falasca G., Altamura M.M. (2016). *Ethylene and auxin interaction in the control of adventitious rooting in Arabidopsis thaliana*. *Journal of Experimental Botany* (**I.F. 5.830**) 67: 6445-6458, DOI: 10.1093/jxb/erw415. **Citations: 39**

11) Zanella L., Fattorini L., Brunetti P., Roccotiello E., Cornara L., D'Angeli S., **Della Rovere F.**, Cardarelli M., Barbieri M., Sanità di Toppi L., Degola F., Lindberg S., Altamura M.M., Falasca G. (2016). *Overexpression of AtPCS1 in tobacco increases Arsenic and Arsenic plus cadmium accumulation and detoxification*. *Planta* (**IF: 3.361**) 243: 605-622. DOI: 10.1007/s00425-015-2428-8. **Citations: 41**

12) **Della Rovere F.**, Fattorini L., Ronzan M., Falasca G., Altamura M.M. (2016). *The quiescent centre and the stem cell niche in the adventitious roots of Arabidopsis thaliana*. *Plant Signaling & Behavior* 11: e1176660. DOI: 10.1080/15592324.2016.1176660. **Citations: 20**

13) **Della Rovere F.***, Fattorini L.*, D'Angeli S., Veloccia A., Del Duca S., Cai G., Falasca G., Altamura M.M. (2015). *Arabidopsis SHR and SCR transcription factors and AUX1 auxin-influx carrier control the switch between adventitious rooting and xylogenesis in planta and in in-vitro-cultured thin cell layers*. *Annals of Botany* (**IF: 3.982**) 115: 617-628. DOI: 10.1093/aob/mcu258. **Citations: 49**

***These authors contributed equally to this work.**

14) **Della Rovere F.***, Fattorini L.*, D'Angeli S., Veloccia A., Falasca G., Altamura M.M. (2013). *Auxin and cytokinin control formation of the quiescent centre in the adventitious root apex of arabidopsis*. *Annals of Botany* (**IF: 3.295**) 112: 1395-1407. DOI: 10.1093/aob/mct215. **Citations: 96**

***These authors contributed equally to this work.**

- 15) Savona M., Mattioli R., Nigro S., Falasca G., **Della Rovere F.**, Costantino P., De Vries S., Ruffoni B., Trovato M., Altamura M.M. (2012). *Two SERK genes are markers of pluripotency in *Cyclamen persicum* Mill.* Journal of Experimental Botany (IF: 5.242) 63(1) 471-88. DOI: 10.1093/jxb/err295. Citations: 36

Summary of Scientific Achievements related to publications submitted for comparative evaluation

Total Impact factor	59.83
Average Impact factor per product	4.27
Total Citations	438 (Scopus; September 30, 2021)
Average Citations per Product	29.2

Part XII – Other publications

- 1) Piacentini D., **Della Rovere F.**, Bertoldi I., Massimi L., Sofo A., Altamura M.M., Falasca G. (2021). *Peroxisomal PEX7 Receptor Affects Cadmium-Induced ROS and Auxin Homeostasis in Arabidopsis Root System.* Antioxidants (I.F. 6.312) 10(9): 1494. DOI: doi.org/10.3390/antiox10091494. Citations: 0
- 2) Ronzan M., Piacentini D., Fattorini L., **Della Rovere F.**, Caboni E., Eiche E., Ziegler J., Hause B., Riemann M., Betti C., Altamura M.M., Falasca G. (2019). *Auxin-jasmonate crosstalk in *Oryza sativa* L. root system formation after cadmium and/or arsenic exposure.* Environmental and Experimental Botany (I.F. 4.027) 165: 59-69. DOI:10.1016/j.envexpbot.2019.05.013. Citations: 14
- 3) Betti C., **Della Rovere F.**, Ronzan M., Fattorini L. (2019). *EIN2 and COI1 control the antagonism between ethylene and jasmonate in adventitious rooting of *Arabidopsis thaliana* thin cell layers.* Plant Cell Tissue and Organ Culture (I.F. 2.196) 138: 41-51, DOI: 10.1007/s11240-019-01601-x. Citations: 4
- 4) Sofo A., Bochicchio R., Amato M., Rendina N., Vitti A., Nuzzaci M., Altamura M.M., Falasca G., **Della Rovere F.**, Scopa A. (2017). *Plant architecture, auxin homeostasis and phenol content in *Arabidopsis thaliana* grown in cadmium- and zinc-enriched media.* Journal of Plant Physiology (I.F. 2.833) 216: 174-180. DOI:10.1016/j.jplph.2017.06.008. Citations: 26
- 5) Altamura M.M., **Della Rovere F.**, Fattorini L., D'angeli S., Falasca G. (2016). *Recent advances on genetic and physiological bases of in vitro somatic embryo formation. In: In vitro plant embryogenesis in higher plants.* Methods in Molecular Biology, Vol. 1359. Germanà M.A., Lambardi M. (Eds.), Springer-Humana Press, N.Y., pp. 47-85. DOI 10.1007/978-1-4939-3061-6_3. Citations: 17
- 6) Ronzan M., Zanella L., Fattorini L., **Della Rovere F.**, Urgast D., Cantamessa S., Nigro A., Barbieri M., Sanità di Toppi L., Berta G., Feldmann J., Altamura M.M., Falasca G. (2017). *The morphogenic responses and phytochelatin complexes induced by arsenic in *Pteris**

- vittata* change in the presence of cadmium. Environmental and Experimental Botany (**I.F. 3.666**) 133: 176-187. DOI: 10.1016/j.envexpbot.2016.10.011. **Citations: 22**
- 7) **Della Rovere F.**, Airoidi C.A, Falasca G., Ghiani A., Fattorini L., Citterio S., Kater M., Altamura M.M. (2010). *The Arabidopsis BET bromodomain factor GTE4 regulates the mitotic cell cycle*. Plant signaling & Behavior, 5: 677-680. DOI: 10.4161/psb.5.6.11571. **Citations: 4**
 - 8) Airoidi C.A.*, **Della Rovere F.***, Falasca G., Marino G., Kooiker M., Altamura M.M., Citterio S., Kater M.M. (2010). *The Arabidopsis BET Bromodomain Factor GTE4 is involved in maintenance of the mitotic cell cycle during plant development*. Plant Physiology (**IF: 6.451**) 152: 1320-1334. DOI: 10.1104/pp.109.150631. **Citations: 23**
*These authors contributed equally to this work.
 - 9) Falasca G., Capitani F., **Della Rovere F.**, Zaghi D., Franchin C., Biondi S., Altamura M.M. (2008). *Oligogalacturonides enhance cytokinin-induced vegetative shoot formation in tobacco explants, inhibit polyamine biosynthetic gene expression, and promote long-term remobilization of cell calcium*. Planta (**IF 3.088**) 227: 835-852; DOI: 10.1007/s00425-007-0660-6. **Citations: 24**
 - 10) Puddu A., Annesi T., Motta E., **Della Rovere F.** (2002). *Possibilità di lotta biologica a *H.annosum* nella pineta di Castel Fusano*. Monti e boschi. 1: 32-34
 - 11) **Della Rovere F.** (2015) *Quiescent centre and stem cell niche. Their organization in Arabidopsis thaliana adventitious roots*. Sapienza Università Editrice, Collana Studi e Ricerche, Rome. **ISBN 978-88-98533-57-2**.
 - 12) **Della Rovere F.** (A.A. 2011-2012). *The organization of the quiescent centre and the stem cell niche in Arabidopsis thaliana adventitious root apices*. Tesi di Dottorato di Ricerca in Scienze Botaniche. Sapienza Università di Roma.

Part XIII – Contributions to scientific conferences and PhD Schools

- 1) **Della Rovere F.**, Betti C., Fattorini L., Girardi N., Piacentini D., Falasca G., Altamura M.M. (2021). *Roles of Brassinosteroids on Arabidopsis thaliana rooting in the presence of Cadmium*. 116° Congresso della Società Botanica Italiana onlus VII International Plant Science Conference, 08-10 September 2021, **ISBN 978-88-85915-26-8**, abstract p. vi
- 2) **Della Rovere F.**, Fattorini L., Ronzan M., Falasca G., Altamura M.M., Betti C. (2020). *Jasmonate and nitric oxide roles in the control of xylary cell formation and identity in Arabidopsis seedlings*. 115° Congresso della Società Botanica Italiana onlus (IPSC), online, 09-11 September 2020, **ISBN 978-88-85915-24-4**, abstract p.35
- 3) Piacentini D., **Della Rovere F.**, Fattorini L., Ronzan M., Falasca G., Massini L., Sofo A., Altamura M.M. (2020). *Exogenous Nitric oxide enhances Cd tolerance in the rice root system by interacting with auxin*. 115° Congresso della Società Botanica Italiana onlus (IPSC), online, 09-11 September 2020, **ISBN 978-88-85915-24-4**, abstract p.57
- 4) Ronzan M., **Della Rovere F.**, Piacentini D., Fattorini L., Altamura M.M., Falasca G. (2019). *Cadmium and Arsenic Affect Root Development in Oryza sativa L. Involving Auxin*

Jasmonate Crosstalk. 2nd Annual Congress on Plant Science and Biosecurity, London, UK, 11-13 July 2019. Abstract p.63

- 5) **Della Rovere F.**, Fattorini L., Hause B., Piacentini D., Ronzan M., Falasca G., Altamura M.M., Betti C. (2019). *Role of the Crosstalk between Jasmonate and Ethylene Signalling in the Adventitious Rooting and Xylogenesis in Arabidopsis thaliana*. 2nd Annual Congress on Plant Science and Biosecurity, London, UK, 11-13 July 2019. Abstract p.60
- 6) Fattorini L., Veloccia A., **Della Rovere F.**, D'Angeli S., Falasca G., Altamura M.M. (2017) *How does indole-3-butyric acid induce adventitious root formation in Arabidopsis thaliana thin cell layers?* Global Conference on Plant Science and Molecular Biology, Eurostars Rey Don Jaime, Valencia, Spain, 11-13 September 2017. Abstract p. 36
- 7) **Della Rovere F.**, Fattorini L., Veloccia A., D'Angeli S., Falasca G., Altamura M.M. (2017). *Indole-3-butyric acid promotes adventitious rooting in Arabidopsis thin cell layers*. 3rd Global Summit on Plant Science, Holiday Inn Roma Aurelia, Rome, 7-9 August 2017. Proceedings of 3rd Global Summit on Plant Science, Journal of Plant Physiology & Pathology 5 (5): 55. DOI: 10.4172/2329-955X-C1-011.
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- 12) Veloccia A, Fattorini L., **Della Rovere F.**, Sofò A., D'Angeli S., Falasca G., Altamura M.M. (2016) *Ethylene and auxin interaction in the control of adventitious rooting in planta in Arabidopsis thaliana*. Riunione annuale dei Gruppi di Lavoro SBI "Biologia Cellulare e Molecolare" & "Biotecnologie e Differenziamento", Amantea (CS), Italy, 14-16 June 2016. Abstracts, p. 32.
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Part XIV – Participation to scientific conventions with attendance certificate (* oral presentation)

- 1) * 116° Congresso della Società Botanica Italiana onlus, on-line, 8-10 September **2021**;
- 2) Riunione annuale dei Gruppi di Lavoro di “Biologia Cellulare e Molecolare” e “Biotecnologie e Differenziamento” (Società Botanica Italiana), on-line 16-18 June **2021**;
- 3) * 115° Congresso della Società Botanica Italiana onlus, on-line, 9-11 September **2020**;
- 4) * 2nd Annual Congress on Plant Science & Biosecurity, London, UK, 11-13 July **2019**;
- 5) * 3rd Global Summit on “Plant Science“, Rome, Italy, 07-09 August **2017**;
- 6) 111° Congresso della Società Botanica Italiana onlus, III International Plant Science Conference (IPSC), Rome, Italy, 21-23 September **2016**;
- 7) 110° Congresso della Società Botanica Italiana onlus, II International Plant Science Conference (IPSC), Pavia, Italy, 14-17 September **2015**;
- 8) * Riunione annuale dei Gruppi di Lavoro di “Biologia Cellulare e Molecolare” e “Biotecnologie e Differenziamento” (Società Botanica Italiana), Università degli Studi di Roma “Tor Vergata”, Rome, Italy, 10-12 June **2015**;
- 9) * PhD School “5th International PhD School Plant Development”, Pontignano, Italy, 25-28 September **2012**;
- 10) PhD School “4rd International PhD School Plant Development”, Retzbach, Germany, 5-7 October **2011**;
- 11) * Riunione annuale dei Gruppi di Lavoro di “Biologia Cellulare e Molecolare” e “Biotecnologie e Differenziamento” (Società Botanica Italiana), Università degli Studi di Roma “Tor Vergata”, Rome, Italy, 15-17 June **2011**;
- 12) International Symposium “Growth and Development of Roots”, Université catholique de Louvain, Louvain-la-Neuve, Belgium, 27 January **2011**;
- 13) “3rd International PhD School on Plant Development”, Universität Regensburg, Retzbach-Würzburg, Germany, 6-8 October **2010**;
- 14) Summer School European Networking Summer School (ENSS) Plant Epigenetics, IPK Gatersleben, Germany, 20-24 September **2010**. Attendance on the invitation.

- 15) 20th International Conference on *Arabidopsis* Research”, Edinburgh, Scotland (UK), 30 June-4 July **2009**;
- 16) * 5th International Symposium on Adventitious root formation: from cell fate flexibility to root meristem determination and biomass formation, Universidad de Alcalá, Alcalá de Henares, Spain, 16-20 June **2008**;
- 17) Workshop on The Evolution of the Antarctic Legal System and Environmental Issues organ, C.N.R., Rome, Italy, 10 November **2005**;
- 18) Meeting on La riproduzione delle piante per lo studio dell’ambiente, APAT, Rome, Italy, 14 October **2005**;
- 19) International Conference on Celebration event 20 years of ICP Forests and 10 years of CONECOFOR, Istituto Sperimentale per la Nutrizione delle Piante, Rome, Italy, 23-24 May, **2005**.

Rome, 30 September 2021

Signature

Della Rovere Federica

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