




PERSONAL INFORMATION	<p>Giulia De Lorenzo (Member of the Academia Europaea)</p> <p>Scopus ID 7004681363 ORCID ID: 0000-0002-1707-5418 WoS AI=F-5475-2013 Google Scholar: https://scholar.google.it/citations?hl=it&user=eUIhXXUAAAAJ&view_op=list_works&sortby=pubdate</p> <p> Building CU022 (Botanica entrance), Dipartimento di Biologia e Biotecnologie C. Darwin, Sapienza Università di Roma, Piazzale A. Moro 5, 00185, Roma, Italy</p> <p> +39 329 2958985 +39 06 49912517</p> <p> giulia.delorenzo@uniroma1.it</p> <p>Sex F Date of birth 16/09/1958 Nationality Italian</p>
CURRENT POSITION SSD (if applicable)	<p>Full professor</p> <p>BIO/04</p>

RESEARCH TOPICS / EXPERIENCES	<ul style="list-style-type: none"> ▪ Plant cell wall - Biochemistry and Degradation. <ol style="list-style-type: none"> 1) Pioneer in the studies on the events occurring in the plant extracellular matrix (cell wall) during microbial infection and activation of immunity. She performed biochemical and structural studies on microbial cell-wall degrading enzymes like polygalacturonases (PGs) and pectin methylesterases (PME) and their plant-derived inhibitors (Polygalacturonase-Inhibiting Proteins or PGIPs) and PME-inhibitors. 2) She was one of the main researcher in a prestigious project granted by the European Research Council (ERC-Advanced Grant, 2008-2013) to study and exploit the strategies of cell wall degradation by microorganisms to improve the production of biofuel from plant biomass. 3) She uncovered unexpected roles of the pectin component homogalacturonan in the recalcitrance of cell wall to saccharification, providing tools to overcome the problem. 4) She continues in research and development of biological tools for the utilization of plant biomass for bioenergy and production of biomolecules. ▪ Plant immunity – Crop protection. <ol style="list-style-type: none"> 1) She cloned and characterized at the genetic, biochemical and physiological level the gene encoding PGIP, the first plant leucine-rich repeat (LRR) recognition protein ever identified. She identified and characterized a recognition/transduction mechanism involving PGs and PGIPs, the interaction of which favours the formation of oligogalacturonides (OGs), a class of damage-associated molecular patterns (DAMPs) deriving from the fragmentation of the cell wall polysaccharides and capable of triggering immunity, both locally and systemically. 2) She demonstrated that PGIP is a powerful biotechnological tool to enhance plant resistance to pathogens. 3) The model represented by the interaction between PGs and PGIPs and the release of elicitor-active of OGs is included in important advanced textbooks of plant biology. She identified the receptor of OGs, the wall-associated kinase 1 (WAK1) of Arabidopsis, by setting up a pioneering approach of domain swap (see patent PCT EP2010/057845) that allows to overcome the problems of functional redundancy and lethality hampering the characterization of the many orphan receptors existing in plants. 4) Her work makes OGs the best characterized DAMPs so far. She has elucidated many aspects of both the stress-related and developmental-related signalling pathways regulated by OGs, also in comparison with the action of microbe-associated molecular patterns (MAMPs). She combines transcriptomic, proteomic and metabolomic approaches, combined with biochemical, molecular genetics, cell biology and physiological studies. 5) She is extending the study of bioactive molecules from the cell wall obtained from plant waste for crop protection. 6) She developed biotechnological strategies for crop protection against pests. 7) She has recently discovered a homeostatic mechanism that prevents the deleterious effects caused by an excessive signalling exerted by plant cell wall-derived DAMPs. The mechanism can be exploited to obtain resilience to stress with no impact on growth. 	
SCIENTIFIC / TECHNICAL QUALIFICATION	<ul style="list-style-type: none"> ▪ H-index: ▪ No. publications: ▪ No. citations: 	<ul style="list-style-type: none"> ▪ 56 (scopus) ▪ 149 ▪ 9312
THEMATIC AREA KEYWORDS	<ul style="list-style-type: none"> ▪ Plant immunity, Plant cell wall degradation, bioconversion, biomass utilization, crop protection, biotechnology 	

EDUCATION AND TRAINING

1987/09/18	PhD in Evolutionary Biology, Sapienza Università di Roma, Italy
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1980/11/24	Laurea degree in Biological Sciences, Sapienza Università di Roma, Italy
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WORK EXPERIENCE

since 2000/11/01	Full Professor, SC 05/A2, SSD BIO/04 Sapienza Università di Roma, Italy
since 1994/11/01	Associate Professor, SC 05/A2, SSD BIO/04 Sapienza Università di Roma, Italy
since 1991/11/01	Associate Professor, SSD BIO/04 Faculty of Scienze MFN, Università degli Studi di Bari, Italy
since 1991/10/22	University Researcher, SSD BIO/04 Sapienza Università di Roma, Italy
since 1990/03/19	Researcher ENEA, CASACCIA, Italy
since 1989/01/15	Researcher ENICHEM Agricoltura, Monterorondo, Roma, Italy
since 1987/06	Post-doctoral fellow Complex Carbohydrate Research Center, Athens (Georgia, USA)

MAIN ROLES AND RESPONSIBILITIES

Since 2021/04	▪ Coordinator of the Monitoring Committee - Research Section, Faculty of Sciences MFN, Sapienza
2019-2022	▪ Member of the Emeritus Professor Committee, Faculty of Science MFN
Since 2019/12/01	▪ Member of the Giunta di Facoltà, Scienze MFN, Sapienza (secpnd term)
Since 2017/10	▪ Coordinator of the Ph.D. Course in Cell and Developmental Biology - Sapienza
Since 2016/10/26 to 2019/10/10/	▪ Member of Giunta, Dipartimento Biologia e Biotecnologie C. Darwin (second term)
Since 2016/11/01 to 2019/10/31	▪ Component of the Monitoring Committee - Research Section, Faculty of Sciences MFN, Sapienza
Since 2014/11/1 to 2018/10/25/	▪ Member of Giunta, Dipartimento Biologia e Biotecnologie C. Darwin

SERVICE TO NATIONAL AND INTERNATIONAL

COMMUNITY

From 2016 To 2018	▪ Component of the Committee for the National Scientific Abilitation (ASN2016)
From 2016/01/21 To 2021/01/20	▪ President of the Scientific Committee of the Edmund Mach Foundation, S. Michele all'Adige (Trento), Italy
From 2014/09 To 2016/03	▪ Editor-in-Chief of "Frontiers in Plant Science" – Section Plant-Microbe Interactions, later renamed Plant Biotic Interactions
From 2011 To 2014/08	▪ Associate Editor of "Frontiers in Plant-Science" – Section Plant-Microbe Interactions
From 2011 To 2013	▪ Member of the Scientific Committee of the Armenise-Harvard Foundation;
From 2007 To 2010	▪ Member of the Evaluation Committee of the Facoltà di Scienze Matematiche, Fisiche e Naturale dell'Università di Roma Sapienza
From 2007 To 2009	▪ Senior Editor of the Journal Molecular Plant-Microbe Interactions;
From 1997 To 2005	▪ Member of the Scientific Committee of the Armenise-Harvard Foundation;
From 1990	▪ Reviewer for Plant Cell, PNAS, Plant Physiology, Plant Journal, BMC Plant Biology, Physiological and Molecular Plant Pathology, Molecular Plant-Microbe Interactions, Gene, Plant Molecular Biology, Planta.
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TEACHING EXPERIENCE

From 1989	<ul style="list-style-type: none"> ▪ She has been carrying out a very intense teaching activity, in the field of Plant Biology (Plant Physiology and Biotechnology, Plant-Pathogen Interactions) in courses of <i>Laurea Quinquennale, Triennale and Magistrale</i>, at Sapienza Università di Roma, Università di Bari, Università della Tuscia, Viterbo. She was a member of the teaching Board of the Doctoral School in Botanical Sciences. ▪ She directed the experimental work of qualified students of Italian and foreign doctoral degree courses and post-doctoral scholars, many of whom have successfully continued their scientific careers [Renato D'Ovidio, he was Full professor at the University of Tuscia, Viterbo; Alessandra Devoto, Full Professor, Royal Holloway, London; Claudio Caprari, associate professor, University of Molise; Benedetta Mattei, Full professor, Università dell'Aquila; Luca Federici, Full professor, University of Chieti; Alessandro Raiola, Associate professor, University of Padua; Simone Ferrari, just promoted Full Professor, Biology and Biotechnology C. Darwin Dept., Sapienza; Adele Di Matteo, CNR researcher, Dept. Biochemistry, Sapienza; Angiola Desiderio and Cristina Capodicasa, ENEA-Casaccia (Rome) researchers; Daniel Savatin, Associate professor Università della Tuscia, Viterbo; Nora Gigli Bisceglia, Wageningen University & Research (WUR), · Department of Plant Physiology; Federica Locci, Max Planck Institute for Plant Breeding Research, Köln, Germany; Matteo Gravino, John Innes Centre, Norwich, UK; Lucia Marti, Researcher assistant at IFO].
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 MAIN FINANCED
PROJECTS (from 2002; no

Sapienza)

From 2023/10/15	<ul style="list-style-type: none"> Project PRIN 2022WLZ4HB Plant tissue damage: Signalling Gunshots And Waves for Immunity (SiGaWi). Total cost € 250,569+
From 2021/04/15 ongoing	<ul style="list-style-type: none"> Project Lazio INNOVA “Nuove varietà tipiche di pomodoro con migliorate caratteristiche agronomiche e di qualità (NOVIPOM) 2021. GDL: PI, Coordinator: Giovanni Giuliano (ENEA, Casaccia). Awarded to GDL € 39835
From 2018/08/29	<ul style="list-style-type: none"> Project PRIN 2017ZBBYNC “Regulatory signals and redox systems in plant growth-defence trade off “. GDL National Coordinator. Total cost of the project € 1.166.723
From 2018/10/19	<ul style="list-style-type: none"> MIUR - progetti di ricerca industriale e sviluppo sperimentale – Project ARS01_00881 “ORIGAMI - Bioraffineria integrata per la produzione di biodiesel da microalghe”. GDL: participant. PI: Simone Ferrari. Coordinator Maria Benedetta Mattei (Università dell'Aquila). Awarded to Sapienza € 203000
From 2018 To 2020	<ul style="list-style-type: none"> “Carburanti alternativi per l'aviazione civile” (ENAC). GDL Participant. Coordinators Felice Cervone/Simone Ferrari. Total cost of the project € 800000
From 2011/10/17 To 2013/10/17	<ul style="list-style-type: none"> PRIN 2009WTCJL8 “Percezione del pericolo nelle piante: segnalazione mediata dai profili molecolari associati ai patogeni (PAMP) e al danno (DAMP), regolazione redox e induzione di risposte di difesa”. GDL National Coordinator. Total cost of the project € 328735
From 2009/01/01 To 2014/06/30	<ul style="list-style-type: none"> ERC AdvGrant FUEL-PATH 233083 “Exploiting the saccharification potential of pathogenic microorganisms to improve biofuel production from plants” . Participant and Co-PI € 2099600. Awarded to Felice Cervone, Sapienza
From 2008/09/22 To 2010/09/22	<ul style="list-style-type: none"> PRIN 2007K7KY8Y_004 “La segnalazione mediata dagli oligogalatturonidi: come le piante sentono e rispondono ad una breccia nella parete cellulare”, GDL: PI. Coordinator Riccardo Angelini (Roma 3). Grant awarded to GDL € 38890
From 2007/08/08 To 2010/11/08	<ul style="list-style-type: none"> FIRB ERA-PG RBER063SN4 “Immunità innata in Arabidopsis e pomodoro: risposte di difesa attivate da PAMP (“pathogen-associated molecular patterns”) e fattori di avirulenza (Avr) mediante recettori RLP e RLK”. GDL: PI. International Coordinator: Pierre de Wit, WAGENINGEN UNIVERSITY, The Netherlands. Grant awarded to GDL: € 207460
From 2006/01/30 To 2008/01/30	<ul style="list-style-type: none"> PRIN 2005052297 “Il “milieu” extracitoplasmatico: la prima linea di difesa nell'immunità innata delle piante”. GDL National Coordinator. Total cost of the project € 243.819
From 2005/09/12 To 2011/08/12	<ul style="list-style-type: none"> FIRB RBLA0345SF_005 “Laboratorio Nazionale di Genomica e Postgenomica degli Organismi di Interesse Agrario”. GDL: PI. National Coordinator Giovanni Giuliano (ENEA). €
From 2002/12/16 To 2004/12/16	<ul style="list-style-type: none"> PRIN 2002073257 “Miglioramento della resistenza delle piante ai patogeni mediante il potenziamento dei meccanismi endogeni di difesa”. GDL National Coordinator. Total cost of the project € 310.900
From 2002/11/05 To 2005/11/05	<ul style="list-style-type: none"> FIRB RBNE01KZE7_005 “Genomica funzionale dell'interazione tra piante e microorganismi (patogeni, antagonisti o simbiotici): determinanti coinvolti nella produzione agricola e protezione dell'ambiente”. GDL: PI. National Coordinator Maurizio Iaccarino. Grant awarded to GDL € 207000
From 2003 To 2005	<ul style="list-style-type: none"> 2003 MIUR GENEFUN: - Geni e loro funzioni: un approccio integrato. GDL: PI. National Coordinator Eugenio Benvenuto, ENEA Casaccia). Grant Awarded to GDL € 180000
From 1997 To 2003	<ul style="list-style-type: none"> Giovanni Armenise-Harvard Foundation Award for Basic Agriculture Research. Awarded to GDL (Grant: USD 750000)

OTHER RELEVANT EXPERIENCES (last 10 years)

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2023	▪ Member of the scientific committee of the international conference XVI Plant Cell Wall Meeting, 18-22 June 2023, Málaga, Spain
2021	▪ Member of the scientific committee of the international conference PLANT BIOLOGY EUROPE 2021 (28th June - 01st July 2021).
2018	▪ Patent: "Cervone F, De Lorenzo G, Ferrari, S, Benedetti M, Pontiggia D. "Fusion protein and transgenic plant expressing said protein", Sapienza Università di Roma. US20180002705A1
2014	▪ Patent: "Cervone F, De Lorenzo G., Bellincampi D, Ferrari S, Lionetti V, Salvi G, Francocci F - Use of plants with reduced levels of de-esterified homogalacturonan in the cell wall or portions thereof for improving the saccharification of plant biomasses", US8637734B2
2013	▪ Member of the scientific committee of the international conference The XIII Cell Wall Meeting - Nantes, France - 7 Jul 2013 → 12 Jul 2013

HONOURS, AWARDS, MEMBERSHIPS, OTHER QUALIFICATIONS

2018	▪ National Scientific Abilitation (ASN) Full Professor AGR/12
2017	▪ National Award of the "Accademia delle Scienze di Torino, Italy" for Plant Biology
2015	▪ Elected Member of the Accademia Europaea
2014	▪ Award Grant for Excellence in Research, Università Sapienza, Roma
2011	▪ Special Award Grant for Excellence in Research, Università Sapienza, Roma
1997	▪ Giovanni Armenise-Harvard Foundation Award for Basic Agriculture Research (Grant: \$ 750000)
1994	▪ Baccharini Melandri Award of the Italian Society of Plant Physiology (SIFV)
1991	▪ FESPP (The Federation of European Societies of Plant Physiology) Award
1983	▪ Fondazione V.V. Landi Award, Accademia dei Lincei. Grant Lire 60.000.000

ADDITIONAL INFORMATION

Publications

2008-TODAY

Publications as a main author

1. Pontiggia, D.; Giulietti, S.; Gramegna, G.; Lionetti, V; Lorrain, R.; Marti, L.; Ferrari, S.; Cervone, F.; **De Lorenzo, G.** (2023). In: *Plant Cell Walls - Research Milestones and Conceptual Insights*. ISBN 9781003178309 doi:10.1201/9781003178309].
2. Costantini S, Benedetti M, Pontiggia D, Giovannoni M, Cervone F, Mattei B, **De Lorenzo G.** (2024). Berberine bridge enzyme-like oxidases of cellodextrins and mixed-linked β -glucans control seed coat formation. *Plant Physiology*, 194(1), 296–313. doi: 10.1093/plphys/kiad457
3. **De Lorenzo G**, Cervone F. (2022) Plant immunity by damage-associated molecular patterns (DAMPs). *Essays Biochem.* 30;66(5):459-469. doi: 10.1042/EBC20210087.
4. Giovannoni M, Marti L, Ferrari S, Tanaka-Takada N, Maeshima M, Ott T, **De Lorenzo G**, Mattei B. (2021) The plasma membrane-associated Ca^{2+} -binding protein, PCaP1, is required for oligogalacturonide and flagellin-induced priming and immunity. *Plant, Cell & Environment* 44(9):3078-3093. doi: 10.1111/pce.14118.
5. Gamir J, Minchev Z, Berrio E, Garcia JM, **De Lorenzo G**, Pozo MJ (2021) Roots drive oligogalacturonide-induced systemic immunity in tomato. *Plant, Cell & Environment* 44 (1), 275-289. doi: 10.1111/pce.13917
6. Marti L, DV Savatin, N Gigli-Bisceglia, V de Turrís, F Cervone, **De Lorenzo G.** (2021) The intracellular ROS accumulation in elicitor-induced immunity requires the multiple organelle-targeted Arabidopsis NPK1-related protein kinases *Plant, Cell & Environment* 44(3):931-947. doi: 10.1111/pce.13978
7. Pontiggia D, M Benedetti, S Costantini, **G De Lorenzo**, F Cervone (2020) Dampening the DAMPs: How Plants Maintain the Homeostasis of Cell Wall Molecular Patterns and Avoid Hyper-Immunity. *Frontiers in Plant Science* 11:613259. doi: 10.3389/fpls.2020.613259.
8. Pontiggia D, Spinelli F, Fabbri C, Licursi V, Negri R, **De Lorenzo G**, Mattei B (2019) Changes in the microsomal proteome of tomato fruit during Ripening SCI. REP. 9:14350, DOI 10.1038/s41598
9. Locci F, Benedetti M, Pontiggia D, Citterico M, Caprari C, Mattei B, Cervone F, **De Lorenzo G** (2019) An Arabidopsis berberine bridge enzyme-like protein specifically oxidizes cellulose oligomers and plays a role in immunity. *Plant J.* 2019 98(3):540-554. doi: 10.1111/tbj.14237
10. **De Lorenzo G**, Ferrari S, Giovannoni M, Mattei B, Cervone F. (2019) Cell wall traits that influence plant development, immunity, and bioconversion . *Plant J.* 97(1):134-147. doi: 10.1111/tbj.14196
11. **De Lorenzo G**, Ferrari S, Cervone F, Okun E. (2018) Extracellular DAMPs in Plants and Mammals: Immunity, Tissue Damage and Repair. *Trends Immunol.* 2018 Oct 4. doi: 10.1016/j.it.2018.09.006.
12. Benedetti M, Verrascina I, Pontiggia D, Locci F, Mattei B, **De Lorenzo G**, Cervone F (2018). Four Arabidopsis berberine-bridge enzyme-like proteins are specific oxidases that inactivate the elicitor-active oligogalacturonides. *Plant J.* 2018 Feb 3. doi: 10.1111/tbj.13852
13. Gigli Bisceglia N, Savatin DV, Cervone F, Engelsdorf T, **De Lorenzo G** (2018). Loss of the Arabidopsis protein kinases ANPs affects root cell wall composition, and triggers the cell wall damage syndrome. *Front Plant Sci.* 22;8:2234. doi: 10.3389/fpls.2017.02234
14. Mattei B, Spinelli F, Pontiggia D, **De Lorenzo G.** (2016) Comprehensive analysis of the membrane phosphoproteome regulated by oligogalacturonides in *Arabidopsis thaliana*. *Front Plant Sci.* 2;7:1107. doi: 10.3389/fpls.2016.01107.
15. Gravino M, Locci F, Tundo S, Cervone F, Valentin Savatin D, **De Lorenzo G.** (2016). Immune responses induced by oligogalacturonides are differentially affected by AvrPto and loss of BAK1/BKK1 and PEPR1/PEPR2. *Mol Plant Pathol* 2016 doi:10.1111/mpp.12419.
16. Gramegna G, Modesti V, Savatin DV, Sicilia F, Cervone F and **De Lorenzo G** (2016). GRP-3 and KAPP, encoding interactors of WAK1, negatively affect defense responses induced by oligogalacturonides and local response to wounding. *J Exp Botany*, 67:1715-29.
17. Kalunke RM, Tundo S, Benedetti M, Cervone F, **De Lorenzo G**, D'Ovidio R. (2015). An update on polygalacturonase-inhibiting protein (PGIP), a leucine-rich repeat protein that protects crop

- plants against pathogens. *Front Plant Sci.* 6:146. doi: 10.3389/fpls.2015.00146.
18. Gravino M, Savatin DV, Macone A, **De Lorenzo G** (2015). Ethylene production in *Botrytis cinerea*- and oligogalacturonide-induced immunity requires calcium-dependent protein kinases. *Plant Journal*, 84(6):1073-86, doi: 10.1111/tjp.13057.
 19. Benedetti M, Pontiggia D, Raggi S, Cheng Z, Scaloni F, Ferrari S, Ausubel FM, Cervone F, **De Lorenzo G**. (2015). Plant immunity triggered by engineered in vivo release of oligogalacturonides, damage-associated molecular patterns. *Proc.Natl.Acad.Sci.U.S.A.* 112(17):5533-8. **Highly cited according to ISI WoS**.
 20. Pontiggia D, Ciarcianelli J, Salvi G, Cervone F, **De Lorenzo G**, Mattei B. (2015) Sensitive detection and measurement of oligogalacturonides in *Arabidopsis*. *Front Plant Sci* 6:258. doi:10.3389/fpls.2015.00258.
 21. Costa A, Barbaro MR, Sicilia F, Preger V, Krieger-Liszkay A, Sparla F, **De Lorenzo G**, Trost P. (2015). AIR12, a b-type cytochrome of the plasma membrane of *Arabidopsis thaliana* is a negative regulator of resistance against *Botrytis cinerea*. *Plant Sci.* 233:32-43.
 22. Lionetti V, Cervone F, **De Lorenzo G**. (2014) A lower content of demethylesterified homogalacturonan improves enzymatic cell separation and isolation of mesophyll protoplasts in *Arabidopsis*. *Phytochemistry*. pii: S0031-9422(14)00312-4.
 23. Ferrari S, Savatin DV, Sicilia F, Gramegna G, Cervone F and **De Lorenzo G**. (2013) Oligogalacturonides: plant damage-associated molecular patterns and regulators of growth and development *Front Plant Sci* 4:49. **Highly cited according to ISI WoS**
 24. Savatin DV, Ferrari S, Sicilia F, **De Lorenzo G** (2011). Oligogalacturonide-auxin antagonism does not require post-transcriptional gene silencing or stabilization of auxin response repressors in *Arabidopsis thaliana*. *Plant Physiology* 157:1163-74.
 25. Galletti R, Ferrari S, **De Lorenzo G** (2011) *Arabidopsis* MPK3 and MPK6 play different roles in basal and oligogalacturonide- or flagellin-induced resistance against *Botrytis cinerea*. *Plant Physiology* 157(2):804-14. doi: 10.1104/pp.111.174003
 26. **De Lorenzo G**, Brutus, A, Savatin, DV, Sicilia F, Cervone, F (2011) Engineering plant resistance by constructing chimeric receptors that recognize damage-associated molecular patterns (DAMPs) *FEBS Letters* 585, 1521-1528.
 27. Brutus A, Sicilia F, Macone A, Cervone F, **De Lorenzo G** (2010). A domain swap approach reveals a role of the plant wall-associated kinase 1 (WAK1) as a receptor of oligogalacturonides. *Proc.Natl.Acad.Sci.U.S.A* 107:9452-7. **Highly cited according to ISI WoS**
 28. Lionetti V, Francocci F, Ferrari S, Volpi C, Bellincampi D, Galletti R, D'Ovidio R, **De Lorenzo G**. (co-senior author), Cervone F (2010) Engineering the cell wall by reducing demethyl-esterified homogalacturonan improves saccharification of plant tissues for bioconversion. *Proc.Natl.Acad.Sci.U.S.A* 107:616- 621.
 29. Casasoli M, Federici L, Spinelli F, Di Matteo A, Vella N, Scaloni F, Fernandez-Recio J, Cervone F, **De Lorenzo G** (2009) Integration of evolutionary and desolvation energy analyses identifies functional sites in a plant immunity protein. *Proc.Natl.Acad.Sci.U.S.A* 106:7666-7671.
 30. Ferrari S, Galletti R, Pontiggia D, Manfredini C, Lionetti V, Bellincampi D, Cervone F, **De Lorenzo G**. (2008). Transgenic expression of a fungal endopolygalacturonase increases plant resistance to pathogens and reduces auxin sensitivity. *Plant Physiology* 146:669-681.

Other publications

1. Scortica A, Giovannoni M, Scafati V, Angelucci F, Cervone F, De Lorenzo G, Benedetti M, Mattei B. (2022) Berberine Bridge Enzyme-like Oligosaccharide Oxidases Act as Enzymatic Transducers Between Microbial Glycoside Hydrolases and Plant Peroxidases. *Mol Plant Microbe Interact.* 35(10):881-886. doi: 10.1094/MPMI-05-22-0113-TA.
2. Giovannoni M, Lironi D, Marti L, Paparella C, Vecchi V, Gust AA, De Lorenzo G, Nürnberger T, Ferrari S. (2021) The *Arabidopsis thaliana* LysM-containing Receptor-Like Kinase 2 is required for elicitor-induced resistance to pathogens. *Plant Cell Environ.* 44(12):3545-3562. doi: 10.1111/pce.14192.
3. Lorrai R, Francocci F, Gully K, Martens HJ, De Lorenzo G, Nawrath C, Ferrari S. (2021). Impaired Cuticle Functionality and Robust Resistance to *Botrytis cinerea* in *Arabidopsis thaliana* Plants With Altered Homogalacturonan Integrity Are Dependent on the Class III Peroxidase AtPRX71. *Front Plant Sci.* 12:696955. doi: 10.3389/fpls.2021.696955.
4. Chiusano ML, Incerti G, Colantuono C, Termolino P, Palomba E, Monticcolo F, Benvenuto

- G, Foscarei A, Esposito A, Marti L, de Lorenzo G, Vega-Muñoz I, Heil M, Carteni F, Bonanomi G, Mazzoleni S. (2021) *Arabidopsis thaliana* Response to Extracellular DNA: Self Versus Nonself Exposure. *Plants (Basel)*. 10(8):1744. doi: 10.3390/plants10081744.
5. De Caroli M, Manno E, Perrotta C, De Lorenzo G, Di Sansebastiano GP, Piro G. (2020) CesA6 and PGIP2 Endocytosis Involves Different Subpopulations of TGN-Related Endosomes. *Front Plant Sci*. 11:350. doi: 10.3389/fpls.2020.00350.
 6. Wu J, Reca IB, Spinelli F, Lironi D, De Lorenzo G, Poltronieri P, Cervone F, Joosten MHAJ, Ferrari S, Brutus A. (2019) An EFR-Cf-9 chimera confers enhanced resistance to bacterial pathogens by SOBIR1- and BAK1-dependent recognition of elf18. *Mol Plant Pathol*. 2019 Jun;20(6):751-764. doi: 10.1111/mpp.12789
 7. Mravec J, Kračun SK, Rydahl MG, Westereng B, Pontiggia D, **De Lorenzo G**, Domozych DS, Willats WGT. (2017) An oligogalacturonide-derived molecular probe demonstrates the dynamics of calcium-mediated pectin complexation in cell walls of tip-growing structures. *Plant J*. 91(3):534-546. doi: 10.1111/tpj.13574.
 8. Raggi S, Ferrarini A, Delledonne M, Dunand C, Ranocha P, De Lorenzo G, Cervone F, Ferrari S. (2015). The *Arabidopsis* class III peroxidase AtPRX71 negatively regulates growth under physiological conditions and in response to cell wall damage. *Plant Physiology* 169:2513-25
 9. De Caroli M, Lenucci MS, Manualdi F, Dalessandro G, De Lorenzo G, Piro G. (2015) Molecular dissection of *Phaseolus vulgaris* polygalacturonase-inhibiting protein 2 reveals the presence of hold/release domains affecting protein trafficking toward the cell wall. *Front Plant Sci* 6:660. doi: 10.3389/fpls.2015.00660.
 10. Kalunke RM, Cenci A, Volpi C, O Sullivan DM, Sella L, Favaron F, Cervone F, De Lorenzo G, D'Ovidio R. (2014) The *pgip* family in soybean and three other legume species: evidence for a birth-and-death model of evolution. *BMC Plant Biol*. 14:189.
 11. Cona A, Tisi A, Ghuge SA, Franchi S, De Lorenzo G, Angelini R. (2014) Wound healing response and xylem differentiation in tobacco plants over-expressing a fungal endopolygalacturonase is mediated by copper amine oxidase activity. *Plant Physiol Biochem*. 2014 May 20;82C:54-65.
 12. Paparella C1, Savatin DV, Marti L, De Lorenzo G, Ferrari S. (2014) The *Arabidopsis* LYSIN MOTIF-CONTAINING RECEPTOR-LIKE KINASE3 regulates the cross talk between immunity and abscisic acid responses. *Plant Physiol*. 165:262-76. doi: 10.1104/pp.113.233759.
 13. Francocci F, Bastianelli E, Lionetti V, Ferrari S, De Lorenzo G, Bellincampi D, Cervone F. (2013) Analysis of pectin mutants and natural accessions of *Arabidopsis* highlights the impact of demethyl-esterified homogalacturonan on tissue saccharification. *Biotechnol Biofuels*. 2013 Nov 18;6(1):163
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Rome, April 18th, 2023



Giulia De Lorenzo