

Curriculum vitae

PERSONAL INFORMATION

De Lorenzo Giulia (Female), Member of the Academia Europaea (M.A.E.)

ORCID ID: 0000-0002-1707-5418; WoS AI=F-5475-2013

Date of birth: September 16, 1958

Nationality: Italian

URL for web site: bbcd.bio.uniroma1.it

EDUCATION

1983-1986 Ph.D. in Evolutionary Biology
Faculty of Science, Sapienza University of Rome, Italy

1976-1980 Master (Laurea, magna cum laude) in Biology
Faculty of Science, Sapienza University of Rome, Italy

CURRENT POSITION

2017-: Coordinator of the Ph.D Course in Cell and Developmental Biology, Sapienza

2000- Full Professor of Plant Physiology and Biotechnology
Department of Biology and Biotechnology C. Darwin, Sapienza University of Rome, Italy

PREVIOUS POSITIONS

1994-1999 Associate Professor of Plant Physiology, Department of Plant Biology /Sapienza University of Rome, Italy

1991-1994 Associate Professor of Plant Biochemistry, Department of Botany / University of Bari, Italy

1990-1991 Researcher, P.I., ENEA, Department of Energy, Casaccia, Italy

1989 Researcher, ENICHEM, Department of Agriculture, Monterotondo, Italy

1987-1988 Post-Doctoral Fellow, Complex Carbohydrate Research Center, University of Georgia, Athens-GA, USA

FELLOWSHIPS AND AWARDS

2017 National Award of the "Accademia delle Scienze di Torino" for Plant Biology

2015: Elected Member of the **Accademia Europea**

2014: Award Grant, Sapienza University, Rome

2011: Special Award and Medal for Scientific Excellence, Sapienza University of Rome

1997: Award for Basic Agriculture Research, Armenise-Harvard Foundation, Boston-USA

1994: Baccarini-Melandri Award, the Italian Society of Plant Physiology (SIFV)

1991: FESPP Award, Federation of European Societies of Plant Physiology, Umea, Sweden

1987: NATO fellowship, National Research Council of Italy

1983: Award "V.V. Landi", Accademia dei Lincei, Rome

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

I had an intense activity in supervising and teaching research. My laboratory has attracted first quality Ph.D. students (about 20) and post docs (about 15). Most of them have successfully continued a scientific career. Here is a list of some successful scientists connected with my laboratory at the early stages of their career: **Renato D'Ovidio**, Full Professor of Plant Biotechnology, University of Viterbo (Italy); **Alessandra Devoto**, Senior Lecturer, Royal Holloway, University of London (UK); **Raffaello Castoria**, Associate Prof. of Plant Pathology, University of Molise, Campobasso, Italy; **Claudio Caprari**, Associate Prof. of Plant Physiology, University of Molise, Isernia, Italy; **Benedetta Mattei**, Associate Prof. of Proteomics, Sapienza University of Rome; **Olga Zabolina**, Associate Prof., University of Iowa, USA; **Luca Federici**, Associate Prof. of Biochemistry, University of Chieti, Italy; **Alessandro Raiola**, Assistant Prof. of Plant Pathology, University of Padua; **Simone Ferrari**, Assistant Prof. of Plant Genomics, Sapienza University of Rome; **Adele Di Matteo**, Researcher P.I., Dept. of Biochemistry, National Research Council (CNR), Rome; **Angiola Desiderio** and **Cristina Capodicasa**, Researchers, ENEA, Dept. of Energy, Casaccia; **Anthony J. Clark**, top manager INTREXON, VP R&D Metabolites & Enzymes, New York, USA. In the last 10 years: **Francesca Sicilia**, Senior Post-Doc, Dpt. of Science and Chemical Technologies, Tor Vergata University of Rome, Italy; **Roberta Galletti**, Senior Post-Doc, Ecole Supérieure de Lyon, France; **Alexander Brutus** Post Doc, University of Lecce, Italy; **Francesco Spinelli**, Post-Doc, Dept. of Agriculture, University of Florence, Italy; **Giovanna Gramegna**, Post-Doc, Dept. of Botany, University of Sao Paulo, Brazil; **Vanessa Modesti**, Post-Doc, Institute of Plant Pathology, Agricultural Research Council, Rome; **Fedra Francocci**, Post-Doc, CNR Laboratory, Porano; **Nora Gigli Bisceglia**, Post-Doc at Norwegian University of Science and

Technology, Trondheim, Norway; **Daniel Savatin**, Post-Doc, Ghent University, Belgium; **Manuel Benedetti**, Post-Doc, University of Verona, Italy, Matteo Gravino, John Innes Center, Noerwich (UK); **Lucia Marti**, Sapienza, Università di Roma.

TEACHING ACTIVITIES

Since 1990, I have been regularly lecturing (at least 120 hrs/year) courses of Plant Physiology, Biochemistry, Biotechnology and Dynamics and Evolution of Plant-Microbe Interactions.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

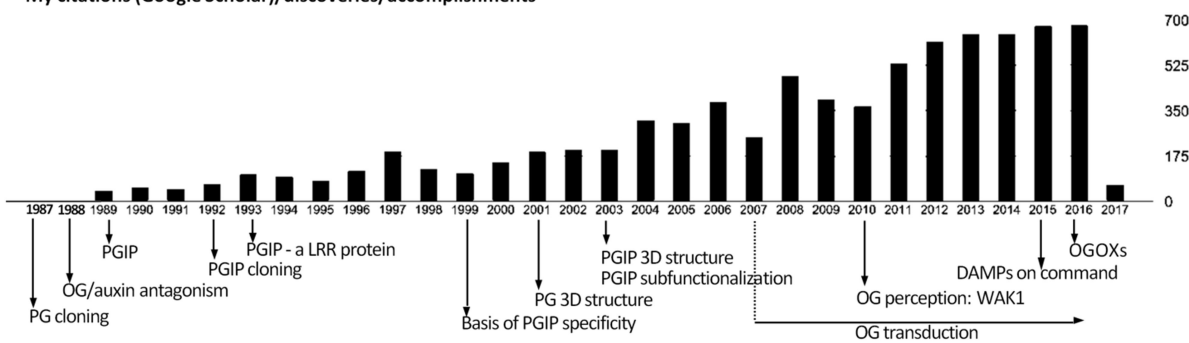
From 2005: Member of International Society of Plant-Microbe Interactions, IS-MPMI

From 1997: Member of the Italian Society of Plant Biology

SCIENTIFIC LEADERSHIP PROFILE

Since the initial training in Evolutionary Biology, my activity is mainly focused on the molecular events occurring in the plant extracellular matrix (cell wall) that trigger immune responses. In the very competitive field of plant-microbe interactions, I was able to obtain important achievements, without following the main stream of the dominant research and maintaining my attitude to stay off the beaten paths. I produced more than 100 papers in peer reviewed journals, among which 35 papers in top journals (18 *Plant Physiology*, 7 *Plant Journal*, 6 *PNAS*, 3 *Plant Cell*, 1 *EMBO Journal*). One manuscript has been accepted in *The Plant Cell*, pending revision. My colleagues and I pioneered the work involving microbial polygalacturonases (PGs), their plant inhibitors PGIPs (Polygalacturonase-Inhibiting Proteins) and oligogalacturonides (OGs) and, in all these years, I generated knowledge beyond the state of the art. Some of my early publications (*Plant Phys* 1989, 90:542.; *Phys. Plantarum*, 1988, 72:499; *Plant Phys.* 1987, 85:631; *Plant Phys.* 1987, 85:626) continue to be highly cited after many years and my whole track record of publications is steadily increasing.

My citations (Google Scholar)/discoveries/accomplishments



March 2018: [Google Scholar: 9051 citations, h index = 54, i10-index 101 (3407, 32 and 69, respectively, since 2013); <https://scholar.google.it/citations?hl=it&user=eUIhXXUAAAAJ>]

[WOS (ID: F-5475-2013): h-index 43; total citations 5579 (47.28 citations per item)]

The model that derives from my work on the interaction between PGs, PGIPs and the release of elicitor-active OGs is included in one of the most important advanced textbooks of plant biology (*Biochemistry and Molecular Biology of Plants* by Buchanan, Gruissem and Jones). Cloning the gene encoding PGIP, the first plant leucine-rich repeat (LRR) protein ever identified and characterized (*Plant J* 1992, 2:367, *Plant J* 1994, 5: 625) and the elucidation of the 3D structures of PGIP and PG (*PNAS* 2003, 100:10124; *PNAS* 2001, 98: 13425) are other important hallmarks of my career. My collaborators and I have elucidated some important aspects of the molecular co-evolution of PGs and PGIPs. How these proteins interact and evolve remains a model for the recognition function of plant LRR proteins and their important roles in defense and development (*Ann Rev Phytopathol* 2001, 39:313; *EMBO J.* 1999, 18: 2352; *Plant Phys.* 2004, 135:2424; *Curr. Op. Plant Biol.* 2002, 5:295; *PNAS* 2009, 106: 7666). Genes encoding PGIPs are now being utilized all around the World to confer resistance to several crops against several pathogens showing the great biotechnological potential of our research (see *Front Plant Sci.* 2015, 6:146 for an update on the translational research utilizing PGIP). Another key contribution pertains to the mode of action and signal transduction of OGs in plant development (*Plant J* 1993, 4:207, *Plant Cell* 1996, 8:477) and immunity (*Plant Phys.* 2000, 122:1379; *Plant J* 2003, 35:193; *Plant Cell* 2003, 15:93; *Plant Phys.* 2007, 144:367; *Mol. Plant* 2008, 1:423; *Plant Phys.* 2008, 148:1695).

Track-record: 2006-today

Recent publications as a senior or corresponding author

OGs are the first class of damage-associated molecular patterns (DAMPs) ever reported in the plant and animal kingdoms. I identified the wall-associated kinase 1 (WAK1) of Arabidopsis as the receptor for OGs (*PNAS*, 2010, 107: 616) by setting up a pioneering domain swap approach (see patent PCT EP2010/057845) that allowed to overcome the problems of functional redundancy and lethality encountered in this study. A relevant recent achievement is the engineering of a protein fusion, named OG-machine (OGM), capable of releasing OGs *in planta* on command (*PNAS*, 2015, 112: 5533). The OGM may be used to transform crop plants that are resistant to pathogens and is a unique tool to study OG signaling from “within” and elucidate its role in the trade-off between immunity and development. My most recent publications show that the OG signaling cascade is crucial not only in the plant response to biotic stress but also in regulating growth and responses to hormones. Conceivably, it represents the first line of a monitoring system that allows the plant to cope with a changing environment and stress. My most recent work also indicates that among the danger signals, the signaling mediated by OGs has a unique complexity reminiscent of the signaling complexity played by plant hormones as well as by the hyaluronan/hyaluronan fragments in vertebrates. The complexity of the OG biology is the focus of my present and future research. The recent development of molecular (OGM) and analytical tools (Pontiggia et al. 2015 *Front Plant Sci.* 6:258) and the discovery of a biochemical and genetic mechanism of OG oxidation (*Plant J.* 2018, DOI: 10.1111/tpj.13852) will allow to prove that OGs are “master” regulators of immunity and critical signals governing the very early stages of several growth and development events.

1. 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/tpj.13852
2. Gigli Bisceglia N, Savatin DV, Cervone F, Engelsdorf T, **De Lorenzo G** (2017). Loss of the Arabidopsis protein kinases ANPs affects root cell wall composition, and triggers the cell wall damage syndrome. *Front Plant Sci.* 2018 Jan 22;8:2234. doi: 10.3389/fpls.2017.02234
3. 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. 1 CIT (Google Scholar)
4. 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. 2 CIT (GS)
5. 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. 5 CIT (GS)
6. 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. 17 CIT (GS)
7. 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/tpj.13057. 8 CIT (GS)
8. 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.** 27 CIT (GS)
9. 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. 4 CIT (GS)
10. Costa A, Barbaro MR, Sicilia F, Preger V, Krieger-Liszczay 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. 1 CIT (GS)
11. Lionetti V, Cervone F, **De Lorenzo G**. (2014) A lower content of de-methylesterified homogalacturonan improves enzymatic cell separation and isolation of mesophyll protoplasts in Arabidopsis. *Phytochemistry*. pii: S0031-9422(14)00312-4. 5 CIT (GS)
12. 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.** 117 CIT (GS)

13. 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. 37 CIT (GS)
14. 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* 157:804-14. 106 CIT (GS)
15. **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. 58 CIT (GS)
16. 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**. 282 CIT (GS)
17. 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 de-methyl-esterified homogalacturonan improves saccharification of plant tissues for bioconversion. *Proc.Natl.Acad.Sci.U.S.A* 107:616- 621. 122 CIT (GS)
18. 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. 57 CIT (GS)
19. 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. 77 CIT (GS)
20. Ferrari S, Denoux C, Galletti R, Ausubel F.M, **De Lorenzo G**. (co-senior author), Dewdney J. (2007) Resistance to *Botrytis cinerea* induced in *Arabidopsis thaliana* by elicitors is independent of salicylic acid, ethylene or jasmonate signaling but requires PAD3. *Plant Physiol* 144: 367-379. **Highly cited according to ISI WoS**. 226 CIT (GS)
21. Spadoni, S, Zabortina, O, Di Matteo, A, Mikkelsen, JD, Cervone, F , **De Lorenzo G**; Mattei, B, Bellincampi, D (2006) Polygalacturonase-inhibiting protein interacts with pectin through a binding site formed by four clustered residues of arginine and lysine *Plant Physiology* 141: 557-564. 71 CIT (GS)

Other publications 2006-today

1. 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
2. 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.
3. 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.
4. 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.
5. 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. 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 de-methyl-esterified homogalacturonan on tissue saccharification. *Biotechnol Biofuels.* 2013 Nov 18;6(1):163
6. Ferrari S, DV Savatin, F Sicilia, G Gramegna, F Cervone, G De Lorenzo (2013) Oligogalacturonides: plant damage-associated molecular patterns and regulators of growth and development. *Frontiers in Plant Science* 4
7. Joubert DA, De Lorenzo G, Vivier MA. (2013) Regulation of the grapevine polygalacturonase-inhibiting protein encoding gene: expression pattern, induction profile and promoter analysis. *J Plant Res.* 126(2):267-81
8. Benedetti M., F Andreani, C Leggio, L Galantini, A Di Matteo, NV Pavel, Federici L, De Lorenzo G, Cervone F, Sicilia F (2013). A single amino-Acid substitution allows endo-polygalacturonase of *Fusarium verticillioides* to acquire recognition by PGIP2 from *Phaseolus vulgaris*. *PLoS one* 8 (11), e80610

9. Suárez L., DV Savatin, G Salvi, G De Lorenzo, F Cervone, S Ferrari (2013). The non-traditional growth regulator Pectimorf is an elicitor of defense responses and protects Arabidopsis against *Botrytis cinerea*. *Journal of Plant Pathology* 95:177-180
10. Ferrari S, Sella L, Janni M, De Lorenzo G, Favaron F, D'Ovidio R. (2012) Transgenic expression of polygalacturonase-inhibiting proteins in Arabidopsis and wheat increases resistance to the flower pathogen *Fusarium graminearum*. *Plant Biol.* 14 Suppl 1:31-8
11. Borrás-Hidalgo O., Caprari C., Hernández-Estevez I., De Lorenzo G. and Cervone F. (2012) A gene for plant protection: expression of a bean polygalacturonase inhibitor in tobacco confers a strong resistance against *Rhizoctonia solani* and two oomycetes. *Frontiers in Plant Science*, 3: 268-273.
12. Benedetti M, Leggio C, Federici F, De Lorenzo G, Pavel NV, Cervone F (2011) Structural resolution of the complex between a fungal polygalacturonase and a plant polygalacturonase inhibiting protein (PGIP) by Small Angle X-ray Scattering. *Plant Physiology* 157: 599-607.
13. De Caroli M, Lenucci, MS., Di Sansebastiano, GP, Dalessandro, G, De Lorenzo, G, Piro G (2011) Protein trafficking to the cell wall occurs through mechanisms distinguishable from default sorting in tobacco *Plant Journal* 65 295-308.
14. 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.
15. Farina, A Rocchi, V Janni, Michela Benedettelli, S, De Lorenzo, G., D'Ovidio, R. (2009) The bean polygalacturonase-inhibiting protein 2 (PvPGIP2) is highly conserved in common bean (*Phaseolus vulgaris* L.) germplasm and related species. *Theor. Appl. Genetics* 118, 1371-1379.
16. Galletti R, Denoux, C, Gambetta, S, Dewdney J, Ausubel, FM, De Lorenzo, G, Ferrari, S (2008) The AtbohD-Mediated Oxidative Burst Elicited by Oligogalacturonides in Arabidopsis Is Dispensable for the Activation of Defense Responses Effective against *Botrytis cinerea*. *Plant Physiology* 148, 1695-1706
17. Denoux, C, Galletti R, Mammarella, Gopalan, S; Werck, D; De Lorenzo, G; Ferrari, S, Ausubel, FM, Dewdney, J (2008) Activation of defense response pathways by OGs and Flg22 elicitors in Arabidopsis seedlings. *Molecular Plant* 1, 423-445.
18. Casasoli, M, Spadoni, S, Lilley, KS, Cervone, F, De Lorenzo, G, Mattei, B (2008) Identification by 2-D DIGE of apoplastic proteins regulated by oligogalacturonides in Arabidopsis thaliana *Proteomics* 8, 1042-1054
19. Janni, M, Sella, L, Favaron, F, Blechl, AE, De Lorenzo, G, D'Ovidio, R (2008) The expression of a bean PGIP in transgenic wheat confers increased resistance to the fungal pathogen *Bipolaris sorokiniana* *Molecular Plant-Microbe Interactions* 21, 171-177
20. Ferrari S, Denoux C, Galletti R, Ausubel F.M, De Lorenzo G., Dewdney J. (2007) Resistance to *Botrytis cinerea* induced in *Arabidopsis thaliana* by elicitors is independent of salicylic acid, ethylene or jasmonate signaling but requires PAD3. *Plant Physiol* 144: 367-379.
21. Ferrari, S, Galletti, R, Vairo, D, Cervone, F De Lorenzo, G (2006) Antisense expression of the *Arabidopsis thaliana* AtPGIP1 gene reduces polygalacturonase-inhibiting protein accumulation and enhances susceptibility to *Botrytis cinerea* *Molecular Plant-Microbe Interactions* 19: 931-936.

Granted patents

- 1) De Lorenzo G, Cervone F., Brutus A, Sicilia F.(2016). Constructs expressing chimeric receptors and use thereof for the controlled activation of defence response to pathogens in plants. US Patent 9,499,823
- 2) Cervone F, De Lorenzo G, Bellincampi D, Ferrari S, Lionetti V, Salvi G, Francocci F (2014) Use of plants with reduced levels of de-esterified homogalacturonan in the cell wall or portions thereof for improving the saccharification of plant biomasses, Sapienza University of Rome, US Patent 8,637,734, 2014

Fellowships and awards

- 2017 National Award of the "Accademia delle Scienze di Torino" for Plant Biology
 2015: Elected Member of the **Accademia Europeae**
 2014: Award Grant, Sapienza University, Rome
 2011: Special Award and Medal for Scientific Excellence, Sapienza University of Rome

Invited presentations (selected) to internationally established conferences and international advanced schools

- 2017: Speaker at the "Winter School "Plant Biotechnology and Environmental Sustainability", Canazei (Trento) Italy, January 15-20

2016: Speaker at the “DAMPs 2016: Injury Perception and Immunity Across the Tree of Life - First International Congress for the Trans-Disciplinary Research into Damage Recognition from Plants to Humans, 6-11 November, Guanajuato, México

2016: Speaker and Chair at XVII IS-Molecular Plant-Microbe Interactions (MPMI) Congress, Portland, OR, USA

2016: European Plant Science Retreat (EPSR), Barcelona, Spain

2015: 3rd International Conference on Model Hosts, Aegean Conferences, Chania, Greece

2014 XVI IS-Molecular Plant-Microbe Interactions Congress July 2014, Rhodes, Greece

2014 “Plant pathology seminar series”, Ph.D School, DNRF Center DynaMo, University of Copenhagen

2013 XIII Cell Wall Meeting, Nantes 7-12 July 2013

2012 XV IS-Molecular Plant-Microbe Interactions Congress, Kyoto, Japan.

2012 Gordon Conference on Plant Cell Wall, Colby College Waterville, ME, August

2012 2nd International Conference on Model Hosts, September 1-6, Rhodes, Greece

2009. Ph.D. School at the Sainsbury Lab in Norwich, UK

2009. Symposium on “Plant Stress Responses in a Changing World”. Denmark, Copenhagen, November 1-3

2008. XIII IS-MPMI Congress, Sorrento, Italy.

2006. XII IS-MPMI Congress, Merida, Mexico.

Research grants

I have participated to important National and International projects and, during my career, I regularly received research grants from National and International Institutions. Recent grants received are following:

2005-2011: FIRB project Ministry of University and Research (MIUR)

2007-2013 Project ERA PG, MIUR

2006-2008, 2008-2010, 2011-2013: three PRIN-COFIN projects (MIUR)

2007-2010, 2011-2013 two Biotec Projects - Ministry of Agriculture

2011-2012 and **2014-2015**, two Award Grants for Excellent Research from Sapienza University

Organization of scientific meetings

2016: Organizing Committee, XIV FISV (Federation of the Italian Societies of Life Sciences) Congress to be held on September 2016, 900 expected participants, Rome, Italy

2013: Scientific Committee, Cell Wall Meeting, about 450 participants, Nantes-France

2007: Main Organizer, Advanced Summer School “Plant Hormones in Action” (80 participants), Maratea, Italy

2007: Scientific and Organizing Committee, XIII IS-MPMI (International Society for Plant Microbe Interactions) Meeting, about 1200 participants, Sorrento, Italy

Evaluation Panels

2016-2021: President of the Scientific Committee of the Edmund Mach Foundation, S. Michele all’Adige (Trento), Italy

2016-2018: Member of the Scientific Evaluation Committee, Faculty of Sciences, Sapienza University, Rome

2011-2013: Member of the Scientific Committee of the Armenise-Harvard Foundation, Boston-USA

Editorial work

2014–2016: Editor-in-Chief of “Frontiers in Plant Science”– Section Plant Biotic Interactions

2011-2014: Associate Editor of “Frontiers in Plant-Science”- Section Plant-Microbe Interactions

2007-2010: Senior Editor of the Journal “Molecular Plant-Microbe Interactions”

Major contributions to the early career of high-quality researchers

Francesca Sicilia, Senior Post-Doc, Dpt. of Science and Chemical Technologies, Tor Vergata University of Rome, Italy; **Roberta Galletti**, Senior Post-Doc, Ecole Supérieure de Lyon, France; **Alexander Brutus** Post Doc, University of Lecce, Italy; **Francesco Spinelli** and **Lucia Marti**, Post-Docs, Dept. of Agriculture, University of Florence, Italy; **Giovanna Gramegna**, Post-Doc, Dept. of Botany, University of Sao Paulo, Brazil; **Vanessa Modesti**, Post-Doc, Institute of Plant Pathology, Agricultural Research Council, Rome; **Fedra Francocci**, Post-Doc, CNR Laboratory, Porano; **Nora Gigli Bisceglia**, Post-Doc at Norwegian University of Science and Technology, Trondheim, Norway; **Daniel Savatin**, Post-Doc, Ghent University, Belgium; **Manuel Benedetti**, Post-Doc, University of Verona, Italy.

Publications before 2006

For citations, see Google Scholar (<http://scholar.google.it/citations?hl=it&user=eUIhXXUAAAA>) or WoS: ID= [F-5475-2013](#)

1. Cervone F., De Lorenzo G., Salvi G., Camardella L. (1986). Molecular evolution of fungal polygalacturonase. In: *Biology and Molecular Biology of Plant-Pathogen Interactions* (ed. J. Bailey) NATO ASI series, vol. H1. Springer-Verlag, Berlin. pp. 386-392.
2. De Lorenzo G., Cervone F. (1986). Differential absorption rate of polygalacturonase from two races of *Colletotrichum lindemuthianum* to resistant and susceptible cultivars of *Phaseolus vulgaris* L. *Annali di Botanica, Roma* 44: 117-124.
3. De Lorenzo G., Delfini T., Salvi G., Cervone F. (1986). Reassociation kinetics of nuclear DNA from the phytopathogenic fungus *Fusarium oxysporum* f.sp. *lycopersici*. *Annali di Botanica, Roma* 44: 163-170.
4. Cervone F., De Lorenzo G., Degra' L., Salvi G. (1986). Interaction of fungal polygalacturonase with plant proteins in relation to specificity and regulation of plant defense response. In: *Recognition in Microbe-Plant Symbiotic and Pathogenic Interactions* (ed. B.Lugtenberg) NATO-ASI Series, vol. H4. Springer-Verlag, Berlin. pp. 253-258.
5. Cervone F., De Lorenzo G., Degra' L., Salvi G. (1986). Enzymatic release of cell wall oligosaccharides with regulatory properties. *Giornale Botanico Italiano* 120: 7-10.
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