

EUROPEAN
CURRICULUM VITAE



Personal Information

Name **Patrizia Galeffi**

Telephone
mail

Nationality **Italian**
Mother tongue: Italian

F

WORK EXPERIENCE

Dates

Occupation/position held

1989 – up to now

**ENEA, BIOAG Division, CR Casaccia, Rome, Italy.
Permanent staff: DIRIGENTE DI RICERCA (L1F3)
SENIOR SCIENTIST/GROUP LEADER**

Main activities and responsibilities

She is **SENIOR SCIENTIST/Group Leader** and scientific responsible (Principal Investigator/coordinator) of an ENEA research team.

Her **main scientific areas of activities** are comprehensive of Biotechnology, Plant Molecular Biology and Genomics and a list of topics are reported briefly, as follows:

1. Antibody molecular biology, antibody engineering, antibodies for plant pathogen resistance
2. Plant antibodies for pharmacological uses
3. Molecular design of engineered antibodies
4. Bioinformatics and Protein Modelling
5. Molecular study of genes responding to abiotic stresses in durum wheat
6. Functional plant genomics
7. Gene expression profiles
8. Plant genetic diversity
9. Transgenic and transient plants
10. Association study between agronomical and molecular data
11. Molecular Markers
12. Agronomical and biochemical studies on Triticale lines as a source of biomass and bioenergy.

Author of several publications on peer-reviewed journals with I.F (the most prestigious one is on NATURE, 1993) concerning **Antibodies expressed in plants**. Invited speaker at several National and International Conferences. Since 1999,

active reviewer of several international scientific journals with IF and **member in the Panel Editors** of “Food, Agriculture and Environment” Journal.

On 2021 **Guest Editor of the Special Issue** "Genetics and Evolution of Abiotic Stress Tolerance in Plants" for the **GENES IF 4,096** (mdpi Editorial Group).

She is Author of 5 Patents. She obtained the Certification as **Agent for Technology Transfer** by the Advanced Course “Progetto di Alta Formazione Manageriale: Valorizzazione della Ricerca Pubblica”, (Italy 2009, with score 92/100) and she was involved in **ENEA Transfer Technology Commission** (2009-10) and she is **Member of ENEA Patent Commission**, since 2013 – up to now.

UNIVERSITY TEACHING and TUTORSHIP: La Sapienza University, Rome, IT; Academic Year 2020-21 and 2021-22; Faculty Pharmacy and Medicine; Course: Bioinformatics; 3 CFU; discipline: BIO/04 PLANT FUNCTIONAL GENOMICS (in English language)

Since 1995 up to now, **Tutor for more than 20 Thesis, PhDs and Master degrees**, for different National/International Universities (La Sapienza University, RM; La Tuscia University, VT; Romatre University, RM; Bordeaux University, FR; ETH Institute and University Zurich, CH; Cologne University, DE; different Universities of India, IN).

Responsible for people-exchange: Program Leonardo (Italia-Germania 2006-2008); Program Galileo (Italia-Francia 1996-1997); ENEA, IT – IVIA, SP (1996-1999); ENEA, IT-CIMMYT, MX 2004-2012; ENEA foreign fellowships for Indian students up to 2014.

Advisor Board Member of Curriculum A, Doctoral Programme in Agrobiodiversity, at the International School S’Anna (Pisa, IT), since 2007.

Professor of “Plant Functional Genomics” at the Bioinformatics Course, Medicine and Pharmacy Faculty, La Sapienza University Rome, IT, academic years 2020-21 and 2021-22.

Evaluator for Biotechnology, Plant Genetics and Plant Molecular Biology projects as expert at National level (ENEA, MIPAF, and other Institutions) and at International level at EU Commission (since 5PQ) and at **FAO/CGIAR Research Programmes (June-July 2012 and June 2013) and member of FAO Commission (2014).**

On 2012, she was **consultant of a small Italian Pharmaceutical Industry** with the aim to solve several issues regarding the antibodies production in view of developing new pharmaceutical products.

PRINCIPAL INVESTIGATOR (PI) in a number of ENEA proposals submitted to National and International funding organizations.

She was **Contact Person** for International Relationships of ENEA UTAGRI Unit (2007-2010).

She is PI of a durable International collaboration with CIMMYT (CGIAR Center, located in Mexico) since 2003 working with her team on the “Genetic improvement of durum wheat by a molecular approach applied to the traditional breeding program”. This collaboration has been partially funded **by MAE 2007-2009 (Progetti di Grande Rilevanza Tecnico-scientifica It-Mx) and by the Mexican Government SRE with several fellowships for “people exchange” released along several years.**

She was the **Italian co-chair at COST project FA 0604 “TRITIGEN” 2007-2011 (tritigen.ari.gov.cy/).**

She was the **Italian co-chair at ERA_Instruments project 2009-2012 (www.era-instruments.eu/).** To be co-chair of these two International Projects has been a very significant experience that has improved her skills on the management of Research and Science Policies, also in terms of infrastructures and work-organization at the Excellence Centers.

On 2015, she was winner and recipient of a grant: **“Meet Italian Scientists”** funded by Italian Embassy in UK with the project titled: “Developing New Molecular Markers in durum wheat by using the Transcription factors gene variability”.

On 2016, she was **coordinator of an International Proposal Project to IWYP** in collaboration with **John Inns Center, Norwich, UK and ICARDA, CGIAR, Marocco**, (title acronym: YES_PASTA on Genetics and Breeding of Cereals); and **partner of a proposal Project to POR Regione Lazio, IT**, in collaboration with CREA_QCE, Rome, Italy (title acronym: CER PROBIVIRI on Beer production from minor cereals).

Furthermore, over last years, she has had several contacts with many scientists from different **International Research Centers** in the world, **FAO and other Institutions** in occasion of International meetings and participation to networks involving Italy and ENEA as Italian partner.

She is **member** of the **International Wheat Initiative Project** and **member of Expert Working Groups (DWGB and AWAS)**, since the beginning on 2011 and **member of EUCARPIA** (European Association for Research on Plant Breeding) representing ENEA activities, since 2015 and **member of AISTEC (Associazione Italiana di Scienza e Tecnologia dei Cereali).**

Name and address of employer

• **ENEA (Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile)**
ENEA, CR Casaccia, Via Anguillarese, 301 00123 Rome, Italy

EDUCATION AND TRAINING

- Date **1988 – 1 year (post-Doctorate) Fellowship ENI_SCLAVO at CNR, Institute NeuroBiology and Cell Biology, Rome, Italy**
 - She was awarded an ENI-SCLAVO fellowship for a project dealing with the post-translation modifications of a protein (CGF8a) induced by nerve growth factor in PC12 cells spent at the "Istituto di Neurobiologia" CNR, Roma, Italy, in the Laboratory directed by Prof. Rita Levi Montalcini (Nobel per la Medicina 1986).

- Date **a.a. 1987-88 Biologist professional qualification at University La Sapienza, Rome, Italy (Abilitazione all'esercizio della Professione di Biologo)**

From a.a.1983-84 to 1986-87, PHD at University La Sapienza, Rome, Italy (Thesis Dissertation on 1988)

PHD in 'Molecular and Cellular Human Biology', Thesis title:

"Analisi molecolari dei geni codificanti per le protein XII e IX della coagulazione umana" (judgment: **Excellent**) at the Dpt. Cell Biology, Faculty of Medicine, University "La Sapienza", Rome, Italy.

From October 1985 to December 1986 During the Doctorate training, she spent a period **at the Laboratory of Prof. G.G. Brownlee, Institute Sir William Dunn, School of Pathology, Oxford University, UK**. Furthermore, she was awarded by an **EMBO Short Term Fellowship (1985)** and she was recipient of an **Assistant Research Fellowship of Oxford University (1986)** to carry out the project on "Site Directed Mutagenesis of the Pre-propeptide Region of Human Clotting Factor IX".

1983 – 1 year Fellowship Lepetit (post-Graduate in Biology) at CNR, Institute Genetics and Biophysics, Naples, Italy

She was awarded a LEPETIT fellowship at the International Institute of Genetic and Biophysics, IIGB, CNR Naples, Italy, at Dr. F. Blasi's laboratory, for a project concerning the molecular cloning of the human Urokinase gene.

24/02/1982 Degree in Biology, cum Lauda, University La Sapienza, Rome, Italy

PERSONAL SKILLS AND COMPETENCES

Problem solving attitude and **Open Mind** person
Skills and experience in patenting, from proposal to defence (author 5 patents). Experience in **Grant application, coordination of proposal and partnership.**

Social skills and competences

She is leading several research activities, in particular on Plant Biotechnology and Agriculture, working in contact with Department's Directors and other senior scientists, as well as, with young scientists and students. Thus, her skills and experience are at high level of competence in research management and organization.

Organisational skills and competences

She is tutor for students, fellowships and doctorates during their experimental thesis in Biotechnology, Life Sciences, Agroindustry with different Italian and foreign Universities. She is member of Scientific Committee to organise events. Because the long experience with many different Institutions and research Centers in several countries, she represents an ENEA contact-point for new International proposal/networks.

Technical skills and competences

Molecular Biology, Genetic Engineering, Plants Genomics, Plant culture, Plant Biotechnology, Molecular Breeding, Bioinformatics, Antibody Technology, Nanotechnology.

Computer skills and competences

Good computer ability with the most common software. Good experience with XP system, Mac/Apple computers, Office word processor, Power point, Internet and web.

OTHER LANGUAGES

*Self-assessment
 European level (*)*

English

French

Spanish

Understanding		Speaking		Writing
		Spoken interaction	Spoken production	
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2
A2	A2	A1	A1	—
B2	B1	A1	A1	--

(A = low; B = medium; C = high)

Complete Publications' List, Congresses and Patents

- 2020** Thiyagarajan K, Latini A, Cantale C, **Galeffi P**
Structural characterization of the DRF1 gene of Aegilops speltoides and comparison of its sequence with those of B and other Triticeae genomes. Euphytica vol 216, Article number: 152 (2020)
- 2019** C Cantale, A Belmonte, A Correnti, A. Farneti, F Felici, L Gazza, A Latini, F Nocente, C Micheli, F Petrazzuolo, **P Galeffi**
A multidisciplinary approach to characterize triticale elite lines for industrial uses
Plant Breeding and Seed Science Journal, 77:79-92. DOI: 10.1515/plass-2018-0007.
- 2018** C. Cantale, A. Latini, **P. Galeffi**
Polymorphisms in the A and B genome copies of the DRF1 gene are able to cluster a collection of durum wheat lines
Rendiconti Accademia Nazionale delle Scienze detta dei XL Memorie di Scienze Fisiche e Naturali 136°, (2018), vol. XLII, Parte II, Tomo I, pp. 125-131
- 2018** **P. Galeffi**, G. Baviello, A. Brunori, C. Cantale, A. Del Fiore, P. De Rossi, M. iannetta
Cereali e pseudocereali quali filiere di riferimento per un sistema alimentare sostenibile: esperienze ENEA
Atti dell'11° Convegno AISTEC "I CEREALI per un sistema agroalimentare di qualità". Ed. by AISTEC, Rome, Italy, 2018, pp.55-60. ISBN: 978-88-906680-6-7
- 2018** Cantale C, Di Bianco D, Thiyagarajan K, Ammar K and **Galeffi P**
B-genome specific polymorphism in the TdDRF1 gene is in relationship with grain yield
Planta (2018) Feb. 247 (2):459-469. doi: 10.1007/s00425-017-2799-0. Epub 2017 Oct 26.
- 2016** Cristina Cantale, Francesco Petrazzuolo, Angelo Correnti, Anna Farneti, Fabio Felici, Arianna Latini, Patrizia **Galeffi**.
Triticale for Bioenergy Production.
Agriculture and Agricultural Science Procedia (2016) 8: 609 – 616
- Thiyagarajan K, Vitali F, Tolaini V, **Galeffi P**, Cantale C, Vikram P, et al
Genomic Characterization of Phenylalanine Ammonia Lyase Gene in Buckwheat.
PLoS ONE 11(3): e0151187 (2016) <https://doi.org/10.1371/journal.pone>.
- 2014** Cristina Cantale, Angelo Correnti, Anna Farneti, Fabio Felici, Luciano Mentuccia, Vito Pignatelli, Anna Rosa Sprocati, Karim Ammar, **Patrizia Galeffi**
Evaluation of triticale as energy crop in italy.
Commun Agric Appl Biol Sci. ;79(4):211-5, 2014
- Karthikeyan Thiyagarajan, Cristina Cantale, Enrico Porceddu and **Patrizia Galeffi**
Molecular analysis of a novel DNA transposon in Triticeae.
Options mediterraneennes, series A: Mediterranean seminars, number 110: 613-17, 2014
- 2013** Latini A, Sperandei M, Cantale C, Arcangeli C, Ammar K, **Galeffi P**.
Variability and expression profile of the DRF1 gene in four cultivars of durum wheat and one triticale under moderate water stress conditions.
Planta, 237(4): 967-78, 2013 doi: 10.1007/s00425-012-1816-6. Epub 2012 Nov 25.
- 2013** Serena Mazzucchelli, Silvia Sommaruga, Maureen O'Donnell, **Patrizia Galeffi**, Paolo Tortora, Davide Prospero, Miriam Colombo
Dependence of nanoparticle-cell recognition efficiency on the surface orientation of scfv targeting ligands
Biomaterial Science 1: 728-735
- 2012** Colombo M, Sommaruga S, Mazzucchelli S, Polito L, Verderio P, **Galeffi P**, Corsi F, Tortora P, Prospero D
Site-specific conjugation of ScFvs antibodies to nanoparticles by bioorthogonal strain-promoted alkyne-nitrone cycloaddition
Angew Chem Int Ed Engl. 2012 Jan 9;51 (2): 496-9. doi: 10.1002/anie.201106775. Epub 2011 Nov 25.
- 2011** Domenico Di Bianco, Karthikeyan Thiyagarajan, Arianna Latini, Cristina Cantale, Fabio Felici, **Patrizia Galeffi**
Exploring the genetic diversity of the DRF1 gene in durum wheat and its wild relatives. **Plant Genetic Resources**, (2011)

9(2): 247–250.

Lombardi A, Gianese G, Arcangeli C, **Galeffi P** and Sperandei M
Bacterial Cytoplasm Production of an EGFP-labeled Single-Chain FV Antibody Specific for the HER2 Human Receptor.
Journal of Biomolecular Structure & Dynamics, 29 (3): 425-439, 2011

Sommaruga S, Lombardi A, Salvadè A, Mazzucchelli S, Corsi F, **Galeffi P**, Tortora P, Prosperi D. *Highly efficient production of anti-HER2 scFv antibody variant for targeting breast cancer cells.*
Appl Microbiol Biotechnol. Aug;91(3):613-21, 2011, doi: 10.1007/s00253-011-3306-3. Epub 2011 May 3

Mazzucchelli S, Verderio P, Sommaruga S, Colombo M, Salvadè A, Corsi F, **Galeffi P**, Tortora P, Prosperi D.
Multiple presentation of Scfv800E6 on silica nanospheres enhances targeting efficiency toward HER-2 receptor in breast cancer cells.
Bioconj Chem. 2011 Nov 16;22(11):2296-303. doi: 10.1021/bc200352x. Epub 2011.

2008 A. Latini, M. Sperandei, S. Sharma, C. Cantale, M. Iannetta, M. Dettori, K. Ammar and P. **Galeffi**. *Molecular analyses of a DREB-related gene in durum wheat and triticale.*
in: **Biosaline Agriculture and High Salinity Tolerance**, C. Abdelly, M. Öztürk, M. Ashraf& C. Grignon Eds., 2008, pp.287-295 Birkäuser Verlag AG - Basel, CH

Arcangeli C, Cantale C, **Galeffi P**, Gianese G, Paparcone R and Rosato V. (2008) *Understanding structural/functional properties of immunoconjugates for cancer therapy by computational approaches.*
Journal of Biomolecular Structure and Dynamics. 26(1): 35-48, 2008 (cover of Journal)

Arcangeli. C, Cantale C, **Galeffi P**, Rosato V (2008) *Structure and dynamics of the anti-AMCV scFv(F8): effects of selected mutations on the antigen combining site.*
Journal Structural Biology, 164: 119-133, 2008

2007/8 Cantale C, Latini A, Sperandei M, Pugnali M, Iannetta M, Ammar K and **Galeffi P**. *Drought tolerant and susceptible wheat cultivars from field experiments to investigate the expression profile of TdDRF1 gene.*
Journal of Genetics & Breeding, vol. 61: 115-120, 2007/8

2007/8 Latini A, Tasso F, Sperandei M, Morelli F, Pugnali M, Dettori M, Cantale C and **Galeffi P**. *Investigation on metabolic fingerprint diversity of different Agrobacterium strains and cereal transformation.*
Journal of Genetics & Breeding, vol. 61: 143-150, 2007/8

2007 A. Latini, C. Rasi, M. Sperandei, C. Cantale, M. Iannetta, M. Dettori, K. Ammar and P. **Galeffi**.
Identification of a DREB-related gene in Triticum durum and its expression under water stress conditions.
Annals of Applied Biology (2007) 150:187-195

2006 C. Cantale, M. Sperandei and P. **Galeffi**
Antibody production in transgenic plants: assembly, applications, advantages & bottlenecks
In **Plant Genetic Engineering**, vol 8, "Metabolic Engineering and Molecular Farming-II" Pawan K. Jaiwal and Rana P. Singh editors (2005) Stadium Press LLC, USA pp.185-240.

P. **Galeffi**, Immacolata Pietraforte, Alessio Lombardi, Flavia Novelli, Monica di Donato, Maria Sperandei, Andrea Tornambé, Rocco Fraioli, Aline Martayan, Marcella Mottolose, Francisco Ylera, Cristina Cantale and Patrizio Giacomini
Single Chain Fragment of Variable (scFv) Antibody Regions to the protooncogene product ErbB-2: Expression in Bacteria, Cell-free Systems, and Tobacco.
Journal of Transplantation Medicine 4:39, 2006

P. **Galeffi**, C. Cantale, G. Cavicchioni, D. Chiaretti, A. Latini, E. Palmieri, C. Rasi, M. Sperandei *Un approccio molecolare alla desertificazione: studio in grano duro di geni correlati allo stress idrico.* In **"Nuove tecnologie per lo studio della vegetazione in relazione ai cambiamenti climatici"** Cap 8 pp.121-135, 2006 Edit by ENEA, Roma, Italy a cura di L. Giordano, C. Trotta, P. Menegoni, G. Schino, F. Borfecchia. - ISBN 88-8286-153-8

2005 P. **Galeffi**, A. Lombardi, M. Di Donato, A. Latini, M. Sperandei, C. Cantale and P. Giacomini
Expression of single chain antibodies in transgenic plants.
Vaccines 23: 1823-1827 (2005).

A. Lombardi, M. Sperandei, C. Cantale, P. Giacomini and P. **Galeffi**

Functional expression of a single-chain antibody (scFv) specific for the HER2 human oncogene in a bacterial reducing environment.

Protein Expression And Purification, 44 (2005) 10-15

- 2004** P. **Galeffi**, A. Latini, S. Kumar*, M. Sperandei, G. Cavicchioni, E. Palmieri, C. Cantale and M. Iannetta
Functional genomic analyses of DROUGHT stress in various Italian durum wheat varieties.
<http://www.economia.uniroma2.it/conferenze/icabr2004/papers/Galeffi.P.zip>
- P. **Galeffi**, A. Lombardi, M. Di Donato, A. Latini, G. Potrighi Polidori, C. Rasi, M. Sperandei, C. Cantale, and P. Giacomini
Plant factory: production of single chain antibodies for application in oncology.
<http://www.economia.uniroma2.it/conferenze/icabr2004/papers/Galeffi.zip>
- 2002** P. **Galeffi**, G. Giunta, S. Guida and C. Cantale
Engineering of a single chain variable fragment antibody specific for Citrus tristeza virus and its expression in E.coli and N. tabacum.
European Journal Plant Pathology 108: 479-483.
- M.M. Cervi, P. **Galeffi** and C.Cantale
L'Innovazione tecnologica secondo l'approccio territorialista: la micropropagazione del carciofo nel progetto locale di Ladispoli e Cerveteri
Monografia edita by ENEA (2002)
- M.M. Cervi, G. Ancora, P. **Galeffi** and C.Cantale
L'approccio territorialista all'Innovazione
AgriCulture 4: 13-17 (2002)
- 2001** P. Del Serrone, C. Marzachi, M. Bragaloni and P. **Galeffi**
Phytoplasma infection of tomato in central Italy
Phytopathologia Mediterranea 40, 137-142
- G. Fontanella, S. Ariemma, C. Cantale e P. **Galeffi**
Aspetti giuridici del brevetto biotecnologico: la materia vivente tra scoperta e invenzione.
ENEA Serie INNOVAZIONE –RT/INN/2001/10, ISSN/1120-5571.
- P.**Galeffi** and C.Cantale
Bridging the gap between Science and the Public
IPTS Report, (2001) 51:37-39
- 2000** E. Terrada R. J. Kerschbaumer, G. Giunta, P. **Galeffi**, G. Himmler and M. Cambra
Fully recombinant Elisa using genetically engineered SCFV fusion proteins for detection of Citrus Tristeza Closterovirus (CTV).
Phytopathology 90 (12), 1337-1344.
- 1998** **Galeffi P.**
Plant production of engineered antibodies for oncological use.
In **BIOTEC AWARD 1998 Abstract Collection Book, 1998** Edit by Amgen, Dompe`, Vector Securities International (Milano, IT).
- C. Cantale, **Galeffi P.**, M. Sperandei, S. Salerno
"Lo Sviluppo Delle Biotecnologie" in **Salute e Territorio, 1998** vol.110- anno XIX settembre ottobre 1998. Monografia "La Sanita` del Duemila" pag.249-253
- 1997** P. **Galeffi**
Le biotecnologie per la difesa delle piante.
Pubblicato in: Corso di formazione "**Specialisti in tecniche multimediali ed audiovisive per la comunicazione e formazione nel settore agroambientale**", 1997 Rif. PO 936043/l/6 Fasc. 122 - Dec. Min.27/6/96 GU 8/7/96 ed. Ministero del lavoro e Previdenza sociale e Soc. Coop. A.r.L. "Il Canovaccio"
- 1994** **Galeffi P.** *L'ingegneria genetica prepara un'agricoltura non inquinata.*
Progetto Agricoltura 43, 31-33, 1994

- 1993** Tavladoraki P., Benvenuto E., Trinca S., De Martinis D., Cattaneo A. and **Galeffi P.**
Transgenic plants expressing a functional "single chain Fv" antibody are specifically protected from virus attack.
Nature 366: 469-472, 1993
- 1991** Benvenuto E., Cattaneo A., Ordàs R.J., Biocca S., Tavazza R., Ancora G. and **Galeffi P.** *Phytoantibodies: a general vector for the expression of immunoglobulin domains in transgenic plants.*
Plant Mol Biol, 13: 685-692, 1991
- 1990** Benvenuto E., Cattaneo A., Ordàs R.J., Biocca S., Tavazza R., Ancora G. and **Galeffi P.** *New strategies to protect plants from pathogens: expression of 'single domain antibodies' (dAbs) in transgenic plants.*
In: **Recombinant DNA technologies in industry and agriculture: STATE OF THE ART IN ITALY.** F.Amaldi, M. De Felice, N. Di Fonzo, P.Merlin, M.Polsinelli, A.Viotti Eds, AMITY rassegna scientifica vol.5, 1990
- 1987** **Galeffi P.** and Brownlee G.G.
The propeptide region of clotting factor IX is a signal for a vitamin K dependent carboxylase: evidence from protein engineering of amino acid -4.
Nucl. Acids Res., 15(22), 9505-9513, 1987
- Galeffi P.,** and Brownlee G.G.
Site directed mutagenesis on human clotting factor IX.
European Journal of Cell Biology, Suppl. 21, pp 44, 1987
- 1986** Citarella F., Tripodi M, **Galeffi P.**, Guida S., Amicone L., Mariani G., Fantoni A.
A human liver cDNA recombinant plasmid expressed in bacteria produces a protein immunologically identical to factor VII of human coagulation.
Cell Biol. Int. Rep. 10, 200, 1986.
- Tripodi M., Citarella F., Guida S., **Galeffi P.**, Fantoni A., Cortese R.
cDNA sequence coding for human coagulation factor XII (Hageman)
Nucl. Acids Res. 14, 3146, 1986
- Tripodi M., Citarella F., Guida S., **Galeffi P.**, Gallo E., Ferrazza P., Amicone L., Mariani R., Longobardi C., Fantoni A.
Molecular studies on DNA sequences coding for factor VII and factor XII of human coagulation.
Inter. Journal. Biochem. 35: 328-332, 1986
- 1984** Verde P., Stoppelli M.P., **Galeffi P.**, Di Nocera P. and Blasi F.
Identification and primary sequence of an unspliced human urokinase poly(A) + RNA.
Proc. Natl. Acad. Sci. USA, 81, 4727-4731, 1984
- Stoppelli M.P., Verde P., **Galeffi P.**, Kajtaniak Locatelli E., and Blasi F.
Regulation of the urokinase mRNA synthesis by tumor promoters and epidermal growth factor. From: **Peptide Hormones, Biomembranes and Cell Growth**, 1984 Bolis L., Verna R., Frati L., eds., Plenum Publ. Co.
- Tripodi M., Citarella F., **Galeffi P.**, Amicone L., Fantoni A., Cortese R.
A human liver cDNA clone coding for factor XII of human coagulation.
Published in "New Trends in Experimental Hematology", 1984, C. Peschle and C. Rizzoli Eds, pp. 286-291
- Tripodi M., Citarella F., **Galeffi P.**, Amicone L., Fantoni A., Chistolini A., Mariani G.
Use of purified antibodies to isolate recombinant DNA expression factor VII of human coagulation. Published in "New Trends in Experimental Hematology", 1984, C. Peschle and C. Rizzoli Eds, pp. 291-296

Congresses and Conferences

- 2019** K. Ammar, C. Cantale, A. Latini, **P. Galeffi**
Polymorphisms of the DRF1 gene are able to distinguish the A and B genome copies and to cluster a collection of durum wheat lines
POSTER ID 019192 - 1st International Wheat Congress, CANADA, 2019

- 2018** **Galeffi Patrizia**, organizing Chair, member of Jury and Scientific Committee at International Conference Wheats&Women – Carlotta Award 2018, Rome 14-15 June, 2018.
- 2018** Galeffi Patrizia, Chair, keynote speaker and member of Scientific Committee at International Congress Plant Genomics, Rome 20-21 June.
- 2017** Galeffi Patrizia, Baviello Gerardo, Brunori Andrea, Cantale Cristina, Del Fiore Antonella, De Rossi Patrizia e Iannetta Massimo. Cereali e pseudocereali quali filiere di riferimento per un sistema alimentare sostenibile: le esperienze ENEA. I CEREALI per un sistema agroalimentare di qualità - 11° Convegno AISTEC, Roma 2017 (selected oral presentation)
- C Cantale, A Belmonte, L Gazza, A Latini, F Nocente, O Maccioni, C Micheli, G Migliore, V Pignatelli, F Petrazzuolo, P Galeffi
A multidisciplinary approach to characterize triticale elite lines for industrial uses
International Congress on Triticale Biology, Breeding and Production, POLAND, 2017 (selected oral presentation)
- 2016** Galeffi P
Partecipazione al “Workshop DWRC” organizzato dal EWG-DWGB, 30 Settembre - 2 Ottobre, ICARDA, CGIAR RESEARCH CENTER, Rabat, Marocco
- Carla Micheli, Alessandro Belmonte, Vito Pignatelli, Francesco Petrazzuolo, Cristina Cantale, Patrizia Galeffi. A multidisciplinary study of some triticale elite lines: agronomic and genetic characterization
111° Congresso della Società Botanica Italiana, Roma 21 - 23 September 2016
III International Plant Science Conference (IPSC) (Poster n. 2.2)
- 2015** Galeffi P. A novel marker derived from the DRF1 gene of durum wheat associated with yield in drought conditions From Seed to Pasta & Beyond, Bologna-Milano 2015 (selected oral presentation).
- Cantale C., Latini A., Petrazzuolo F., Correnti A., Farneti A., Felici F., and Galeffi P. Triticale for bioenergy production SWIF Congress, Firenze 2015 (selected oral presentation)
- 2013-** THIYAGARAJAN K*, CANTALE C*, PORCEDDU E.** , GALEFFI P*
Molecular evolutionary analysis of a novel non-autonomous DNA transposon in poaceae
ISGBDW 2013, 27-30 May Rome, Italy (poster num. 7.9)
- Galeffi P.
From Creso durum wheat to the omics sciences, new applications and future strategies: there is no future without past
ISGBDW 2013, 27-30 May Rome, Italy (oral presentation, session 7)
- Cristina Cantale, Angelo Correnti, Anna Farneti, Fabio Felici, Luciano Mentuccia, Anna Rosa Sprocati, Karim Ammar, Patrizia Galeffi
Evaluation of triticale as energy crops in Italy
8TH INTERNATIONAL TRITICALE SYMPOSIUM, 10-14 June 2013, Ghent, Belgium (poster)
- Cantale, Latini, Galeffi
The AP2 domain in DREB2-related transcription factors: an example of the way amino acid variability can affect the 3D structure of a plant DNA-binding domain
ZING Conference, Mexico, December 2013 (selected oral presentation)
- 2012** Galeffi P.
Plant Factory: Production of Engineered Antibodies for Pharmaceutical use.
CUBA SALUD, 2012 (Invited speaker)
- 2011** P.Galeffi
Il contributo delle “omiche” (genomica, proteomica, trascrittomica) al miglioramento genetico del frumento duro
Workshop “La ricerca nazionale per migliorare la sostenibilita’ produttiva e la qualita’ del frumento duro” In “Pasta Trend”, April 24-27, 2011, Bologna (invited speaker)
- GALEFFI P
Dal grano Creso alle scienze omiche, nuove applicazioni e strategie future
CRESO DAY, 14 aprile 2011, presso l’ENEA, Roma (invited speaker).

D. Di Bianco^{1,2}, K. Thiyagarajan^{1,2}, A. Latini^{1,4}, C. Cantale¹, K. Ammar³ and P. Galeffi¹ News and views of the DRF1 (dehydration responsive factor 1) gene from durum wheat and its wild relatives. COST Meeting TRITIGEN, Istanbul, May 2011: WG3 - session 4 (oral presentation and chair session).

D. Di Bianco^{1,2}, C. Cantale¹, K. Thiyagarajan^{1,2}, K. Ammar³ and P. Galeffi¹
The genetic diversity of the DRF1 gene in durum wheat and its ancestors
ITMI Conference, September 2011, Mexico (poster).

2010 D. Di Bianco, K. Thiyagarajan, A. Latini, C. Cantale, F. Felici, K. Ammar, P. Galeffi
Genetic diversity of a dreb-related gene in durum wheat and its wild relatives
2° International Symposium on Genomics of Plant Genetic Resources, April 24-27, 2010, Bologna, Italy (selected oral presentation).

2009 D. Di Bianco, A. Latini, K. Thiyagarajan, M. Sperandei, F. Felici, C. Cantale, K. Ammar and P. Galeffi
An expression profile analysis of the dehydration-responsive drf1 gene in triticale. 7TH International Triticale Symposium, Ciudad Obregon, Sonora, March 23-26, 2009 (poster).

A. Latini, M. Sperandei, P. Galeffi
Heterologous overexpression of durum wheat dehydration-responsive gene transcripts in Nicotiana plants and in E. coli for investigating their function.
30th Nordic Cereal Congress, June 15-17, 2009 (poster).

D. Di Bianco, A. Latini, K. Ammar, T. Karthikeyan, C. Cantale, F. Felici, P. Galeffi
A molecular marker from TdDRF1 gene to use in wheat assisted selection aimed to improving drought tolerance. ITMI-COST joint Workshop Clermont-Ferrand, FR, August 31-September 4, 2009 (poster).

T. Karthikeyan, A. Latini, D. Di Bianco, E. Porceddu, C. Cantale, P. Galeffi
Identification of a novel non-autonomous DNA transposon associated with the dehydration responsive TdDRF1 gene in durum wheat and other triticeae species. ITMI-COST joint Workshop Clermont-Ferrand, FR, August 31-September 4, 2009 (poster).

A. Latini, M. Pugnali, E. Pratt, S. Vautrin, H. Berges, P. Galeffi
Isolation from a wheat genomic BAC library of clones containing the sequence of DRF1 gene for revealing its regulatory regions and possible physically closely related genes. ITMI-COST joint Workshop Clermont-Ferrand, FR, August 31-September 4, 2009 (poster).

M. Pugnali, M. Sperandei, C. Cantale, E. Benvenuto, M. Bucher, and P. Galeffi
Heterologous expression of engineered antibodies in the root system for biopharmaceutical applications. "Plant-based vaccines et Antibodies" Verona, IT, June 15-17, 2009 (selected oral presentation).

2008 P. Galeffi
TdDRF1, a DREB homologue in durum wheat, as a possible marker for response to water stress
From Seed to Pasta, Bologna, June 30- July 3, 2008 (Invited lecture)

Latini A, Sperandei M, Galeffi P. Study of the function of the TdDRF1 proteins. From Seed to pasta, Bologna, June 30- July 3, 2008 (poster)

Di Bianco D, Latini A, Porceddu E, Cantale C and Galeffi P. Analysis of a SSR molecular marker and of genotype-dependent multiplex PCR patterns inside the codifying region of the TdDRF1 gene. From Seed to pasta, Bologna, June 30- July 3, 2008 (poster)

K. Thiyagarajan, E. Tesfaye, E. Porceddu, M. Sperandei and P. Galeffi. Identification of homeologous TdDRF1 gene in wheat wild relatives Triticum urartu and Aegilops speltoides From Seed to pasta, Bologna, June 30- July 3, 2008 (poster)

A. Latini, M. Sperandei, C. Cantale, M. Iannetta, M. Dettori, K. Ammar and P. Galeffi Expression profile analyses of the TdDRF1 gene in durum wheat from experimental fields, PlantGEMs-7, Albena (Bulgary), September 24-27, 2008 (selected oral presentation)

A. Latini, M. Sperandei, C. Cantale, P. Galeffi
Study of the function of the TdDRF1 proteins: transient expression of the three related transcripts in Nicotiana plants.

COST TRITIGEN Meeting, Albena (Bulgary), September 22-24, 2008 (selected Oral presentation)

Arcangeli C, Pugnali M, Sperandei M, Cantale C, Bucher M, Gianese G, Rosato V, Galeffi P Single Chain Antibodies (ScFvs) and Immunoconjugates: Computational and Functional Approaches. Ehrlich II – 2nd World Conference on Magic Bullets Norimberga (DE), October 3-5, 2008 (selected Oral presentation)

M. Pugnali, A. Latini, E. Palmieri, M. Sperandei, C. Cantale, A. Jacques, M. Bucher, and P. Galeffi
The expression of engineered antibodies in the root system. 52° Annual Congress SIGA Padova, September 14-17, 2008 (selected Oral presentation)

D. Di Bianco, A. Latini, E. Porceddu, F. Felici, C. Cantale and P. Galeffi
Finding a molecular marker linked to the Dehydration Responsive Transcription Factor 1 gene (TdDRF1) 52° Annual Congress SIGA, Padova, September 14-17, 2008 (poster).

Thiyagarajan K, Tesfaye E, Porceddu E, Cantale C, Sperandei M, Felici F, Galeffi P. A preliminary analysis of TdDRF1 gene in the wild wheat relatives *Triticum urartu* and *Aegilops speltoides*. 52° Annual Congress SIGA Padova, September 14-17, 2008 (poster).

2007 A. Latini, M. Sperandei, C. Cantale, M. Iannetta, M. Dettori, K. Ammar, P. Galeffi. A functional genomics approach to study a drought-related gene in durum wheat. COST TRITIGEN MEETING, Tenerife (Canary Islands), October 1-3, 2007 (selected oral presentation)

P. Galeffi, A. Latini, C. Cantale, M. Sperandei, D. Chiaretti, C. Stamigna, R. Di Bonito, C.A. Campiotti
Riduzione del danno prodotto dai cambiamenti climatici attraverso sistemi di adattamento flessibile.
Conferenza Nazionale sui Cambiamenti Climatici. Roma, FAO 12-13 Settembre 2007, sessione Cambiamenti Climatici ed Agro-ecosistemi (oral presentation)

2006 P. Galeffi, A. Latini, M. Sperandei, C. Cantale, M. Dettori, K. Ammar, M. Iannetta.
TdDRF1: a drought related gene in durum wheat. The vulnerability of Mediterranean Terrestrial Ecosystems to Climate Change, CNR Conference, Rome, IT, 26-28 April 2006

A. Latini, C. Rasi, M. Sperandei, G. Cavicchioni, S. Sharma, C. Cantale, M. Iannetta, M. Dettori, K. Ammar, P. Galeffi
Expression profile analyses of a dehydration-responsive transcription factor gene in durum wheat
International Scientific Conference: The Future of Drylands Tunis, Tunisia 19 - 21 June 2006 (poster)

A. Latini, S. Sharma, M. Sperandei, C. Cantale, M. Dettori, K. Ammar and P. Galeffi. 2006. Molecular responses in controlled field conditions: expression of a dreb-related gene in durum wheat and triticale. PlantGEMs-5, October 11-14, 2006 Venice (IT)

A. Latini, M. Sperandei, S. Sharma, C. Cantale, M. Iannetta, M. Dettori, K. Ammar and P. Galeffi
Molecular analyses of a DREB-related gene in durum wheat and triticale. ICBA&HST International Conference on Biosaline Agriculture and High Salinity Tolerance -Tunis, Tunisia 3.11.2006 (Selected oral presentation)

C. Arcangeli, G. Gianese, R. Paparcone, M. Sperandei, C. Cantale, P. Galeffi and V. Rosato
Setting a procedure for the "in silico" evaluation of immunoconjugates for cancer therapy.
BITS Bologna - April 28-29, 2006

2005 C. Cantale, M. Sperandei, P. Giacomini and P. Galeffi
Expression of Single Chain antibodies in plants. Phytopharma, 4-6/2/2005 Aurangabad, India (invited speaker).

P. Galeffi, G. Pettrighi Polidori, C. Rasi, A. Latini, G. Cavicchioni, E. Palmieri, M. Sperandei and C. Cantale
Commercial production of antibodies in cereals: setting up the system
9th ICABR International Conference on Agricultural Biotechnology:
Ten Years After. Ravello (Italy), July 7 - 10, 2005

C. Rasi, A. Latini, E. Palmieri, M. Sperandei, C. Cantale*, M'Barek Tamasloukh, M. Bucher and P. Galeffi
Molecular farming of an engineered antibody: production in plant root exudates. SIGA XLIX ANNUAL CONGRESS, Potenza, Italy 12/15-9-2005

A. Latini, C. Rasi, S. Sharma, G. Cavicchioni, D. Chiaretti, M. Sperandei, C. Cantale, M. Iannetta, M. Dettori, K. Ammar, P. Galeffi

Expression study of a gene for a dehydration-responsive transcription factor in durum wheat
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Molecular responses to drought stress: expression of TdDRF1 gene in several durum wheat varieties in controlled greenhouse and in field conditions. INTERDROUGHT-II Rome, IT, 24-28 September 2005

2004 P. Galeffi, A. Lombardi, M. Di Donato, A. Latini, M. Sperandei, C. Cantale and P. Giacomini

Expression of single chain antibodies in transgenic plants

In proceedings of "Plant derived vaccines and antibodies: potentiality and limitations" ANNECY, FR, 21-24 march, (invited speaker)

P. Galeffi, A. Latini, M. Sperandei, G. Cavicchioni, E. Palmieri, C. Cantale, M. Dettori, W. Pfeiffer, K. Ammar and M. Iannetta

Drought stress and molecular analyses in various Italian durum wheat varieties. SIGA Workshop, "Molecular Assisted Breeding", 18-19 maggio, Bologna, Italy (invited speaker).

P. Galeffi, A. Latini, S. Kumar*, M. Sperandei, G. Cavicchioni, E. Palmieri, C. Cantale and M. Iannetta

Functional genomic analyses of DROUGHT stress in various Italian durum wheat varieties.

8th ICABR, 8-11 july, Ravello, Italy, (selected oral presentation)

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P. Galeffi, A. Lombardi, M. Di Donato, A. Latini, G. Potrighi Polidori, C. Rasi, M. Sperandei, C. Cantale, and P. Giacomini

Plant factory: production of single chain antibodies for application in oncology.

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C. Cantale, G. Ancora and P. Galeffi

Biotechnology and territorial development: the case-study of in vitro Roman artichoke propagation at Cerveteri and Ladispoli (Italy).

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Molecular responses of durum wheat varieties to drought stress in greenhouse and field conditions. Plant-GEMS-4, Lyon, France

Latini, Lombardi, Di donato, Rasi, Petrighi Polidori, Cavicchioni, Palmieri, Cantale, Sperandei, Galeffi

Expression of a scfv engineered antibody to the breast cancer erbb-2 antigen in cell free system and in plant.

XLVIII Annual Congress, SIFV-SIGA, Lecce 15-18/9/2004, Italy

P. Galeffi, A. Latini, M. Sperandei, G. Cavicchioni, E. Palmieri, C. Cantale, M. Dettori, W. Pfeiffer, K. Ammar, A. Pellegrineschi and M. Iannetta

A functional genomics approach applied to drought related genes in durum wheat

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2003 P. Galeffi, M. d'Apolito, A. Lombardi, G. Cavicchioni, T. Mancino, M. Sperandei and C. Cantale A Model System to study the Structural Stability of Engineered Antibodies: Mutants of a scFv specific to AMCV

V International Congress on Artichoke, 5-8th of May, Tudela, Spain. Published in Acta Horticulturae

C. Cantale, M. M. Cervi, P. Galeffi

Technological Innovation (in vitro micro-propagation of the Roman artichoke) and Territorial Development: a Local "Success Story" in the Cerveteri and Ladispoli Area (Italy)

V International Congress on Artichoke, 5-8th of May, Tudela, Spain. (selected oral presentation). Published in Acta Horticulturae, in press

P. Galeffi, A. Lombardi, M. Di Donato, M. Sperandei, C. Cantale, R. Fraioli, P. Giacomini

Molecular farming: production in plants of engineered antibodies for oncological use. "From the Green Revolution to the Gene Revolution", 27-31 May, Bologna, Italy

P. Galeffi, M. Di Donato, M. Sperandei, G. Cavicchioni, E. Palmieri, A. Lombardi, C. Cantale, and A. Pellegrineschi
Molecular analyses after a DROUGHT stress of an Italian durum variety: CRESO. X Inter. Wheat Genetics Symposium, 1-6
September, Paestum, Italy. Published in Proceedings of the X International Wheat Genetics Symposium, vol.3:1136-
1138, edit by Istituto per la Cerealcoltura Italiano.

C. Cantale, T. Mancino, M. D'Apolito, A. Lombardi, M. Sperandei and P. Galeffi
Wet and in silico analyses of a very peculiar engineered antibody: an intercative process
Modellistica Molecolare- Biochimica e Farmaceutica VII Workshop Calcolo Alte prestazioni in Italia, CILEA 2003, 14
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Workshop on Human Resource Management "The intangible assets in SMEs: human capital and competences for the
innovation" 23-24.01, Rome, Italy (invited speaker)

2002 P. Galeffi, I. Pietraforte, A. Lombardi, F. Novelli, M. Sperandei and C. Cantale
Plant and bacterial production of engineered antibodies for pharmacological use in oncology Xth IAPTC&B Congress,
Plant Biotechnology 2002 and Beyond, June 23-28, Orlando, Florida, USA. (selected oral presentation)
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Plant and bacterial production of a ScFV-anti HER2 for pharmacological use in oncology.
XLVI Annual congress SIGA, 18-21 November, Giardini di Naxos, Messina, Italy

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578.

2001 P. Galeffi, C. Cantale, M. Sperandei, I. Pietraforte, F. Morelli, M. D'Apolito, A. Tornambé, A. Lombardi, F. Novelli, R.
Fraïoli and P. Giacomini
Plant Production of Engineered Antibodies for Pharmacological Use in Oncology. International Colloquium European
Union Funded Research "Aptamers for diagnostic and in vivo imaging" Naples, Italy

I. Pietraforte, C. Cantale, M. Sperandei, F. Morelli, M. D'Apolito, A. Tornambé, A. Lombardi, F. Novelli and P. Galeffi
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Galeffi
High Stability and Affinity of a Specific ScFV for HER2/neu tumoral antigen. PROTEOMICA Conference, Milano, Italy

P. Galeffi (invited speaker)
Bridging the gap between science and the public
External Advisory Group for Key Action 5 of the Life
Sciences Programme of FP V, EAG Workshop, Bruxelles, Belgium

1999 P. Galeffi, C. Cantale, I. Pietraforte, M. D'Apolito, R. Fraïoli, P. Giacomini
Plant Production of engineered antibodies for oncological use.
DNA Analysis 1999. (Firenze, IT).

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1998 E. Terrada., R. Kershbaumer, G. Himmler, G. Giunta, P. Galeffi and M. Cambra.
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1996 Galeffi P., Guida S., Giunta G., Cantale C. and Del Signore G.
Engineered immunization of Citrus Plants: construction of single chain antibody (SCFV) against the Citrus Tristeza virus.
SIGA - XL Convegno Annuale, Perugia, Italia.

1994 P. Galeffi, S. Palumbo, G. Del Signore and P. Giacomini
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12th European Immunology Meeting, Barcelona, Spagna (1994).

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Joint Meeting - XXII° Convegno del G.C.I., Parigi, Francia (1994).

1993 Tavladoraki P., Trinca S., De Martinis D., Cattaneo A., Benvenuto E and P. Galeffi.
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World Conference on Plants – Tucson, USA

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VI European Congress on Biotechnology, Firenze, Italia.

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Un plasmide per l'espressione di anticorpi in piante.
X Convegno annuale SIGA - Italia.

1990 P. Galeffi, C. Mancini, M. Piscitelli, De Martinis D., and Benvenuto E.
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IX Convegno annuale SIGA - Italia.

1989 Possenti R., Benedetti M., Galeffi P., Paterson B., Levi A.
Secretion of VGF8a: a NGF-inducible gene.
Society for Neuroscience-19th Annual meeting - Phoenix, Arizona, USA October 29, 1989

1987 Galeffi P., and Brownlee G.G.
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VI Congresso Nazionale dell'Associazione di Biologia cellulare e del differenziamento. S. Margherita Ligure, 26-28 Ottobre, Proceedings in European J. of Cell Biology, Suppl. 21, 44, 3

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Spanò M., Raschellà G., Gambari R., Biagini R., Galeffi P., Romeo A., Fantoni A. and Mauro F.
"Erythroid differentiation of human leukemia K-562 cells monitored by flow cytometry".
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Patents

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E. Benvenuto, P. **Galeffi**, S. Biocca, A. Cattaneo

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Plasmid vectors for gene expression in plants. European patent n. BE-92830330.4 on 25/06/1992.

IN FEDE,

Dr.ssa Patrizia Galeffi

Il sottoscritto è a conoscenza che, ai sensi dell'art. 26 della legge 15/68, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali. Inoltre, il sottoscritto autorizza al trattamento dei dati personali, secondo quanto previsto dalla Legge 675/96 del 31 dicembre 1996.

