



# UNIVERSITÀ DEGLI STUDI DELLA BASILICATA

Curriculum Vitae  
Prof. Giovanni Carlo Di Renzo.

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## Personal information

First name(s) / Surname(s)

Giovanni Carlo DI RENZO

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Nationality

Italian

Date of birth

7 dicember 1957

Gender

Male

## Work experience

Dates

October 1994 - current

Occupation or position held

Full Professor, Scientific Disciplinary Section AGR/09 – Agricultural Mechanics,  
University of Basilicata, School of Science of Agriculture, Forestry, Food and Environment  
(SAFE)

Main activities and responsibilities

A.Y. 1994/1995 TO Current. Lecturer the courses “Machines and plants for Food-industry Processing 1 and 2” in the Food Science Bachelor and Master degree.

- Responsible of the Scientific laboratory “Officina per l’innovazione e lo sviluppo nell’industria alimentare (OPSIA)” from the 11/04/2016 to the current.
- President of Food Science Bachelor and Food Science Master degree from 01/07/2014 to current
- Vice Rector of Basilicata University from 01/10/2009 to 30/06/2014;
- Chairman of discipline board of Basilicata University from 01/10/2012 to 31/12/2013;
- Chairman of Patent Commission of Basilicata University from 01/03/2011 to 30/06/2014;
- Chairman of Spin off Commission of Basilicata University from 01/03/2011 to current;
- Member of ARDSU Administrative Committee (Agency for the Right to Education) from 01/10/2009 to 30/06/2014;
- Member of Academic Council of Basilicata University from 01/10/2006 to 30/06/2014;
- Member of Administrative Committee of Basilicata University from 01/10/2009 to 30/06/2014;
- Department director from 01/10/2006 to 01/10/2009.

Name and address of employer

University of Basilicata- Department SAFE, Viale dell'Ateneo Lucano, 10– 85100 Potenza (PZ), Italy

Type of business or sector

State University



**Education and training**

**Dates**

November 1977 - March 1983

**Title of qualification awarded**

Degree in Agricultural Sciences, Machines and Plants for Agro-Food industry Processing  
Section – Marks 110/110 summa cum laude

**Principal subjects/occupational skills covered**

Preparatory disciplines, basic and vocational in the field of agricultural science

**Name and type of organisation providing education and training**

University of Bari – Public University

**Personal skills and competences**

The scientific and professional experience in design, working and operation analysis of machines and plants for storage and processing of fruit and vegetables, for dairy farms, wine industries, for oil mills, for waste water purification, for energy saving and recovering in food process, combined with laboratory practice and knowledge of agro-industrial automation process control, make prof. Di Renzo an expert in the field of plant for agro-industries.

**Organisational skills and competences**

**Organization, direction, coordination and management of the following scientific research projects, development and technology transfer:**

- Scientific coordinator of the mobility project Innovative packaging to reduce postharvest loss of fruit and vegetable produced in IRAN financed on "Pietro della Valle" 2016 MIUR program.
- of SAFE operating unit in the Project Horizon 2020 - MyPack n.774265 from 01/11/2017 to current;
- Scientific coordinator of SAFE operating unit in the Project Horizon 2020 - MyPack n.774265 from 01/11/2017 to current;
- Scientific coordinator of SAFE as subcontractor in the Project Horizon 2020 - IoF2020 n.731884 from the 01/01/2017 to current;
- Scientific coordinator of UNIBAS as partner of the Smart City Project "Smart Basilicata" – from the 2014 to current;
- Scientific Coordinator of MIQUAM Project - Improvement of wine quality produced in the Ionian Area of Basilicata - 2014-2015.
- Scientific Coordinator of SAFE Operating Unit in the project "QUALIFORM - Improvement of mozzarella cheese" - 2014-2015.
- Scientific Coordinator of Operating Unit Di.T.Ec. in the Regional project "PIF - Improvement of agro-food production of Basilicata Region: cheese, olive-oil, wine, pasta and fresh fruit and vegetables" - 2014-2015.
- Scientific Coordinator of Operating Unit Di.T.Ec. in the national project MIPAF "Agro energy in South Italy" with a duration of 3 years (ongoing).
- Scientific Coordinator of the Unit SAFE - UNIBAS FAR in the national project "Quality Improvement of frozen orange juice made in Italy" with a duration of 3 years (ongoing).
- Scientific Coordinator of the Unit Di.T.Ec. within the national project "RAVAGRU" under the "Research and development for product innovation and process" with a duration of 5 years (ongoing).
- Scientific Coordinator of the Unit Di.T.Ec. in the the project ex 40% MURST on "Traceability in the food system" with a duration of 2 years (end of the project 31.11.2006);
- Scientific Coordinator of the Unit Di.T.Ec. in the project "Research and experimentation in the field for Italian" under the "Research and development for product innovation and process" with a duration of 3 years (end of the project 31/12/2006);
- Scientific Coordinator of the Unit Di.T.Ec. in the PRIN Project "Enhancement of cheese whey: Analysis of the carbohydrate fraction of lactose and recovery". , duration: 2 years. Project term 31/12/2003;
- Scientific Coordinator in the project POP / 1994-99 ERDF - Measure 9.4 - Project



**Technical skills and competences**

entitled "Pilot plant for the recovery of acid whey valuable compounds produced in Basilicata", duration: 2 years. Project term 31/12/2002;

- Scientific Coordinator of the Unit Di.T.Ec. in the project POM - INEA on "Reducing the cost of production, quality improvement and environmental protection in olive-oil-processing industry", duration: 2 years. Project term 31/12/2001;
- Scientific Coordinator of the Unit Di.T.Ec. in the project POM - INEA on "Post-harvest handling and marketing of citrus fruit for fresh consumption", duration: 2 years. Project term 31/12/2001;
- Scientific Coordinator of a project POM - INEA on "Computerisation of the veterinary services and technical assistance to livestock-farms", duration: 2 years. Project term 31/12/2001;

**Activities at home and abroad**

Good experience in laboratory and field instrumentation (gas chromatography, gas analyser, water quality, mechanical measurement on agricultural materials, temperature and humidity measurement devices).

- Egypt - January 1985 to December 1987 -"Fayoum pilot project for re-use of drainage water". Co-ordinated the activity of Italian and Egyptian agronomists in the experimental and demonstration fields in the El Fayoum area.
- Turkey, Tunisia, France, Yugoslavia, and Greece. Seminars under the auspices of the FAO on the approach of research activity in developing countries of olive by-products.
- China – 1997 - under the auspices of the EU Center for Agricultural Technology. Introduction of European technology for the preservation of agricultural products in Shaanxi and Xinjiang Provinces. One month of lectures to scientists, staff personnel of the agricultural bureaus and growers in two different training courses organized in Xi'an Research Center and Uruqi University – Faculty of Agriculture; analyses agro-industry processing situation in Shaanxi and Xinjiang Provinces. Prepared a final report with recommendations for the future development of the industry in China.
- Southern Ukraine - March 1999 to January 2000. Group Leader of a local and international team of experts undertaking the evaluation, business planning, and restructure implementation of a dairy and cheese manufacturing company. EU Tacis Post-privatization Project (PRUK 9701).
- Italy – 1997 and 1998. Team Leader of the project “Post-harvest quality of fruit and vegetable” developed in Italy with the financial support of the Research National Council.
- Southern Italy – 1999 ending 2001. Team Leader of 7 teams in the EU funded project “Computerized assistance for cattle farms”.
- Southern Italy – 1999 ending December 2001. Group Leader in the EU funded project “Post harvest technology - citrus fruit”
- Southern Italy – 1999 ending December 2001. Group Leader in the EU funded project “Cost reduction and quality improvement of olive-oil”.
- Italy - 1999 ending December 2001. Team Leader of 3 teams in the EU funded project “Pilot plant for recovery of whey proteins ” - developed in Basilicata-Italy.
- Southern Italy – 2000 ending December 2011. Group Leader in the EU funded (€ 350,000) project “Quality improvement in post-harvest of citrus fruit”.
- Italy, Maroc, Tunisie, Egypt, China, India, Azerbaijan, Libya, Lebanon, Japan, IRAN, 1994 – 2013 Consultant of private companies for designing of cold storage plants, dairy and cheese industries, oil extraction plants, etc.

**PATENTS**

- 2016 - DI RENZO Giovanni Carlo, ALTIERI Giuseppe, GENOVESE FRANCESCO (2016). Device for controlling gaseous exchanges between the inside and outside of a container for solid or liquid food products. PCT/IB2016/0506600, Giovanni Carlo Di Renzo
- 2016 - Di Renzo G.C., Altieri G., Genovese F. (2016). Sedimentatore rotativo per la separazione solido/liquido e liquido/liquido di liquidi alimentari e procedimento per la separazione solido/liquido e liquido/liquido di detti liquidi. 102016000078140, Di Renzo G.C., Altieri G., Genovese F.



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## Publications of the last 3 years

- 1) Matera Attilio, Genovese Francesco, Altieri Giuseppe, Tauriello Antonella, Di Renzo Giovanni C. (2017). An Innovative Smart Device to Control Modified Atmosphere Packaging (MAP) of Fruit and Vegetables. *CHEMICAL ENGINEERING TRANSACTIONS*, vol. 58, p. 193-198, ISSN: 2283-9216, doi: 10.3303/CET1758033
- 2) Matera Attilio, Francesco Genovese, Altieri Giuseppe, Tauriello Antonella, Di Renzo Giovanni C. (2017). Effects on Must Quality Produced from Sangiovese and Cabernet Grape Frozen/Withered Using a Forced Air Plant. *CHEMICAL ENGINEERING TRANSACTIONS*, vol. 58, p. 343-348, ISSN: 2283-9216, doi: 10.3303/CET1758058
- 3) Altieri Giuseppe, Genovese Francesco, Tauriello Antonella, Di Renzo Giovanni Carlo (2017). Models to improve the non-destructive analysis of persimmon fruit properties by VIS/NIR spectrometry. *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*, ISSN: 0022-5142, doi: 10.1002/jsfa.8416
- 4) Altieri G., Matera A., Tauriello A., Genovese F., Di Renzo G.C. (2017). Rotased - A patented innovative system for the clarification of olive oil. In: Biosystem Engineering to addressing the human challenges of the 21st century. p. 172, BARI: LITHOS srl, ISBN: 978-88-6629-016-2, BARI, 5-8 July 2017
- 5) Altieri Giuseppe, Genovese Francesco, Tauriello Antonella, Di Renzo Giovanni C., Strano Maria C., Romeo Flora V. (2016). Effectiveness of thin film application of imazalil fungicide on decay control of Tarocco orange fruit. *BIOSYSTEMS ENGINEERING*, vol. 151, p. 399-408, ISSN: 1537-5110, doi: 10.1016/j.biosystemseng.2016.10.009
- 6) Altieri Giuseppe, Genovese Francesco, Admane Naouel, Di Renzo Giovanni Carlo (2016). On-line measure of donkey's milk properties by near infrared spectrometry. *LEBENSMITTEL-WISSENSCHAFT + TECHNOLOGIE*, vol. 69, p. 348-357, ISSN: 0023-6438, doi: 10.1016/j.lwt.2016.01.069
- 7) Salvia M., Cornacchia C., Di Renzo G.C., Braccio G., Annunziato M., Colangelo A., Orifici L., Lapenna V. (2016). Promoting smartness among local areas in a Southern Italian region: The Smart Basilicata Project. *INDOOR AND BUILT ENVIRONMENT*, ISSN: 1420-326X, doi: 10.1177/1420326X16659328
- 8) Genovese Francesco, Altieri Giuseppe, Di Renzo Giovanni Carlo (2016). ANAEROBIC DIGESTION POTENTIAL TO REDUCE LIVESTOCK WASTE ENVIRONMENTAL IMPACT: A CASE STUDY IN BASILICATA REGION (ITALY). In: *ACTA FACULTATIS STUDIORUM HUMANITATIS ET NATURAE UNIVERSITATIS PRESOVIENSIS NATURAL SCIENCES biology – ecology*. vol. XLIII, p. 29-35, Presov:Peter Petruska Department of Ecology Faculty of Humanities and Natural Sciences University of, ISBN: 80-8068-249-6, Presov, 9-11 Settembre 2015
- 9) Altieri Giuseppe, Genovese Francesco, Tauriello Antonella, Di Renzo Giovanni C., Strano Maria C., Romeo Flora V. (2016). Effectiveness of thin film application of imazalil fungicide on decay control of Tarocco orange fruit. *BIOSYSTEMS ENGINEERING*, vol. 151, p. 399-408, ISSN: 1537-5110, doi: 10.1016/j.biosystemseng.2016.10.009
- 10) Altieri Giuseppe, Genovese Francesco, Admane Naouel, Di Renzo Giovanni Carlo (2016). On-line measure of donkey's milk properties by near infrared spectrometry. *LEBENSMITTEL-WISSENSCHAFT + TECHNOLOGIE*, vol. 69, p. 348-357, ISSN: 0023-6438, doi: 10.1016/j.lwt.2016.01.069
- 11) Salvia M., Cornacchia C., Di Renzo G.C., Braccio G., Annunziato M., Colangelo A., Orifici L., Lapenna V. (2016). Promoting smartness among local areas in a Southern Italian region: The Smart Basilicata Project. *INDOOR AND BUILT ENVIRONMENT*, ISSN: 1420-326X, doi: 10.1177/1420326X16659328
- 12) Genovese Francesco, Altieri Giuseppe, Di Renzo Giovanni Carlo (2016). ANAEROBIC DIGESTION POTENTIAL TO REDUCE LIVESTOCK WASTE ENVIRONMENTAL IMPACT: A CASE STUDY IN BASILICATA REGION (ITALY). In: *ACTA FACULTATIS STUDIORUM HUMANITATIS ET NATURAE UNIVERSITATIS PRESOVIENSIS NATURAL SCIENCES biology – ecology*. vol. XLIII, p. 29-35, Presov:Peter Petruska Department of Ecology Faculty of Humanities and Natural Sciences University of, ISBN: 80-8068-249-6, Presov, 9-11 Settembre 2015



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- 13) N. ADMANE, V. Verrastro, G. Altieri, F. Genovese, L. Tarricone, A. Ippolito, G. C. Di Renzo (2015). Application of High Carbon Dioxide or Ozone Combined with MAP on Organic Late-Season Table Grapes Scarlotta Seedless®.. ACTA HORTICULTURAE, vol. 1079, p. 193-199, ISSN: 0567-7572
- 14) Altieri Giuseppe, Genovese Francesco, Tauriello Antonella, Di Renzo Giovanni Carlo (2015). Innovative plant for the separation of high quality virgin olive oil (VOO) at industrial scale. JOURNAL OF FOOD ENGINEERING, vol. 166, p. 325-334, ISSN: 0260-8774, doi: 10.1016/j.jfoodeng.2015.06.033
- 15) G.C. Di Renzo, G. Altieri, F. Genovese, A. Tauriello. (2015). Preliminary Results on the Effect of a Simultaneous CO<sub>2</sub>/Ethylene Treatment on Some Quality Properties of Persimmon Fruit. ACTA HORTICULTURAE, vol. 1071, p. 687-693, ISSN: 0567-7572
- 16) A.Tauriello, G.C. Di Renzo, G. Altieri, M.C. Strano, F. Genovese, M. Calandra (2015). Simulation of Cold Treatment during a Cargo Shipment of Citrus Fruit. ACTA HORTICULTURAE, vol. 1065, p. 1685-1692, ISSN: 0567-7572
- 17) Genovese Francesco, Altieri Giuseppe, Admane Naouel, Salamon Ivan, Di Renzo Giovanni Carlo (2015). Processing plants and technologies for a sustainable Mediterranean food chain. In: The Sustainability of Agro-Food and Natural Resource Systems in the Mediterranean Basin. p. 339-351, Vastola, Antonella, ISBN: 978-3-319-16356-7, doi: 10.1007/978-3-319-16357-4\_22
- 18) Genovese Francesco, Altieri Giuseppe, Di Renzo Giovanni Carlo (2015). Anaerobic digestion potential to reduce livestock waste environmental impact: a case study in Basilicata region (Italy). In: New trends in the ecological and biological research. p. 47, Presov:University of Presov, ISBN: 978-80-555-1354-6, Presov, 9-11 settembre 2015
- 19) DI RENZO Giovanni Carlo, ALTIERI Giuseppe, GENOVESE FRANCESCO (2015). Dispositivo per controllare scambi gassosi fra l'interno e l'esterno di un contenitore per prodotti alimentari solidi o liquidi. 102015000018707, Giovanni Carlo Di Renzo
- 20) Giuseppe Altieri, Giovanni C. Di Renzo, Francesco Genovese, Antonella Tauriello, Maurizio D'Auria, Rocco Racioppi, Licia Viggiani (2014). Olive oil quality improvement using a natural sedimentation plant at industrial scale. BIOSYSTEMS ENGINEERING, vol. 122, p. 99-114, ISSN: 1537-5110, doi: 10.1016/j.biosystemseng.2014.04.007
- 21) G.C. Di Renzo, G. Altieri, F. Genovese, A. Tauriello (2014). Effect of a simultaneous CO<sub>2</sub>/Ethylene treatment on quality properties of persimmon fruit: preliminary results.. In: Book of Abstracts of the International Congress on ""Environmental sustainability and food security"". p. 55, ISBN: 978-88-68400-01-9, Potenza, 17-19 giugno 2014"
- 22) N. ADMANE, V. Verrastro, G. Altieri, F. Genovese, L. Tarricone, A. Ippolito, G. C. Di Renzo (2014). Effect of postharvest pretreatments and MAP on organic late-season table grapes Scarlotta seedless® "Sugranineteen" assigned to medium and long term storage.. In: Proceedings of Vth International Postharvest Unlimited Conference, ISHS International Conference. p. 44, Cipro, 10-13 giugno 2014
- 23) N. Admane, V. Verrastro, L. Tarricone, G. Altieri, F. Genovese, A. Tauriello, G.C. Di Renzo (2014). Effect of postharvest pretreatments and MAP on phenolic compounds of organic late-season table grapes Scarlotta seedless® "Sugranineteen" assigned to medium and long term storage.. In: Book of Abstracts of the International Congress on ""Environmental sustainability and food security"". ISBN: 978-88-68400-01-9, Potenza, 17-19 giugno 2014 "
- 24) N. Admane, V. Verrastro, D. Di Gennaro, F. Genovese, G. Altieri, G.C. Di Renzo (2014). Effect of postharvest pretreatments on organic Early Superior Seedless "Sugraone" table grapes assigned to long term storage.. In: Geophysical Research Abstracts EGU2014-924-2. vol. 16, Vienna, 27 aprile - 2 maggio 2014"
- 25) N. Admane, V. Verrastro, G. Altieri, F. Genovese, A. Tauriello, G.C. Di Renzo (2014). Effetto dei trattamenti postraccolta su uva Early Superior Seedless "Sugraone" biologica destinata alla lunga conservazione.. In: Book of abstract of POSTRACCOLTA 2014 ""reducing postharvest losses to better feed the world"".. p. 22, Barletta, 22-23 maggio 2014"
- 26) G.C. Di Renzo, G. Altieri, F. Genovese, A. Tauriello (2014). Innovative cyclone to improve olive oil quality: preliminary results.. In: Proceedings of the International



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- 27) G.C. Di Renzo, G. Altieri, F. Genovese, A. Tauriello (2014). Messa a punto di un modello predittivo della qualità dei frutti di kaki (*Diospyros kaki*) con l'uso della spettroscopia VIS/NIR.. In: Book of abstract of POSTRACCOLTA 2014, reducing postharvest losses to better feed the world. p. 23, Barletta, 22-23 maggio 2014
- 28) Giuseppe Altieri, Giovanni Carlo Di Renzo, Francesco Genovese, Mariarosaria Calandra, Maria Concetta Strano (2013). A new method for the postharvest application of imazalil fungicide to citrus fruit. BIOSYSTEMS ENGINEERING, vol. 115, p. 434-443, ISSN: 1537-5110, doi: 10.1016/j.biosystemseng.2013.04.008
- 29) Giovanni Carlo Di Renzo, Giuseppe Altieri, Francesco Genovese (2013). Donkey milk powder production and properties compared to other milk powders. DAIRY SCIENCE & TECHNOLOGY, vol. 93, p. 551-564, ISSN: 1958-5586, doi: 10.1007/s13594-013-0108-7
- 30) Giuseppe Altieri, Giovanni Carlo Di Renzo, Francesco Genovese (2013). Horizontal centrifuge with screw conveyor (decanter): optimization of oil/water levels and differential speed during olive oil extraction. JOURNAL OF FOOD ENGINEERING, vol. 119, p. 561-572, ISSN: 0260-8774, doi: 10.1016/j.jfoodeng.2013.06.033
- 31) F. Genovese, G.C. Di Renzo, G. Altieri, A. Tauriello (2013). Mild separation system for olive oil: quality evaluation and pilot plant design. JOURNAL OF AGRICULTURAL ENGINEERING, vol. 44 (s1), p. 306-310, ISSN: 2239-6268, doi: 10.4081/jae.2013.(s1):e61
- 32) Di Renzo G.C., Altieri G., Strano M.C., Genovese F., Tauriello A. (2013). Ottimizzazione degli impianti per la prerefriigerazione e per il cold treatment di frutti di agrume destinati all'esportazione [Research on pre-cooling and cold treatment technology for the export of fresh cut citrus fruit]. In: F. Intrigliolo. (a cura di): F. Intrigliolo, Ravagru. Ricerche avanzate in agrumicoltura e loro applicazioni. vol. 9, p. 45-48, FIRENZE:Società di Ortoflorofrutticoltura Italiana, ISBN: 9788890562884, doi: 10.978.88905628/84
- 33) M. Labriola, G.C. Di Renzo, T. Brown, G. Altieri, F. Genovese (2013). Ergonomics approach to evaluate safety risks within the UK food industry, preliminary results. In: The First International Symposium on Agricultural Engineering. vol. IV, p. 15-24, Belgrade:University of Belgrade, Faculty of Agriculture, Serbia, ISBN: 978-86-7834-179-3, Belgrade, Serbia, 4th-6th October 2013