

CURRICULUM VITAE

Prof Raffaello Castoria PhD

Dipartimento di Agricoltura, Ambiente, Alimenti

Università del Molise

Via Francesco De Sanctis, 86100 Campobasso, ITALY

Telephone +39 0874 404698 - Fax +39 0874 404652 -

Email castoria@unimol.it

skype lello.castoria

CAREER SUMMARY

DATE	ROLE/ORGANIZATION	FOCUS
July 1995-current	Professor and Senior Researcher (Leading Scientist, Principal Investigator) – Department of Agricultural, Environmental and Food Sciences, University of Molise, IT	Leadership; Project management; Strategic planning; Decision making processes; Case studies; Research on environmentally friendly and biodiversity-based (bio)technologies for plant protection; Government liaison; Funding; Conceptualizing strategies for resolving scientific issues; Analyzing and interpreting data and results; Interaction with stakeholders; Presentations; Relationship development; Teaching of Agriculture-related national and international courses for Undergraduate, Master and PhD Students
1994-1995	Post-doctoral fellowship in Biology - Department of Plant Biology, University of Rome “La Sapienza”, IT	Scientific research in plant pathology; Case studies on induction of natural defense in plants from temperate climate and of sub-tropical origin; Experimental and strategic planning
1994	Technical and Scientific Consultant – F.A.O. (Food and Agriculture Organization of the United Nations), Plant Production and Protection Division	Conceiving, designing and implementing the FAO Global Information System on Plant Genetic Resources, as a basis for the conservation of plant genetic biodiversity
1993	Technical and Scientific Consultant – Plant Biotechnology Unit, Research Division of Tecnogen ScPA, IT	Characterizing plant responses to biotic and abiotic stress
1993	Lecturer - Department of Plant Biology, University of Rome “La Sapienza”, IT	Teaching Course “Molecular Basis of Plant-Fungal Pathogen Interaction”
1992	Technical and Scientific Consultant – F.A.O. (Food and Agriculture Organization of the United Nations), Plant Production and Protection Division	Conceiving and setting up a database on cultivation systems of edible fungi on agricultural waste and by-products, as a source of alternative, low cost proteins for human nutrition in poor areas of the world

EDUCATION

MSc in Biology (Thesis "Study of polygalacturonase from *Aspergillus niger*: Induction and isolation of mRNA and construction of a cDNA library") – University of Rome "La Sapienza", IT

PhD in Biotechnology of Fungi (Doctoral thesis "Molecular basis of fungal elicitor-mediated induction of defense responses in plant cells") - University of Rome "La Sapienza" and University of Perugia, IT

SCIENTIFIC ACTIVITY

Three major research lines - A, B and C below (C is the present work):

- A. Study of aflatoxin-producing *Aspergillus* spp.: role of peroxidation and ageing in the induction of Aflatoxin biosynthesis. This study has provided the basis for improved strategies of conservation of cereals and oily seeds.
- B. Study of molecular signals inducing defense responses in plants: role of oxidative processes in the transduction of signal molecules acting as elicitors of plant defense responses.
- C. Study of the mechanisms of action of yeasts acting as biocontrol agents of postharvest fungal pathogens of horticultural and fruit crops, the optimisation of the activity of these agents, the prevention, monitoring and detoxification of the mycotoxins Ochratoxin A in wine-grapes and wine, and Patulin in pome fruits and pome fruit-based juices, also through the identification and use of yeast gene(s) involved in the detoxification process.

This research activity has important applicative implications: it contributes to addressing the goals indicated by EU legislation (2009/128/CE), which aims at strongly reducing the utilization of chemicals in agriculture; it represents an important contribution to Food Safety, since EU (as well as other countries in the world, including US) have set the highest tolerable levels of mycotoxins in food and feed (EC Regulation 1881/2006); it contributes to Food Security, since it paves the way to the utilization and commercialization of food that should otherwise be discarded.

In the frame of this research line:

- foundation of the laboratory of Molecular Plant Pathology aimed to characterizing biodiversity of beneficial microbial and plants, and to studying biocontrol mechanisms and mycotoxin detoxification at a molecular genetics level.
- knowledge of molecular biotechnology, i.e. recombinant DNA (genetic engineering), complementing competencies in sustainable agriculture, enabling to critically assess risks and potentialities in the utilization of GMOs (Genetically Modified Organisms) for addressing major issues in agriculture, both in developed and developing Countries.
- organization and implementation of international collaborations with scientists providing their contribution on topics specifically belonging and complementary to this research activity.
- patent and patent applications which are of interest for commercial utilization by a company in the sector of agrochemicals and biological control.
- providing advice to companies of the agrochemical sector.
- agreements with companies of the agrochemical sector for funding research activity specifically aimed at developing biocontrol agents-based products.

Besides the scientific publications deriving from the described research lines, senior authorship of dissemination papers for stakeholders and farmers.

Referee for international scientific journals

- Phytopathology
- Journal of Plant Pathology
- Journal of Phytopathology
- Phytoparasitica
- Applied and Environmental Microbiology
- Biocontrol
- Journal of Applied Microbiology
- Journal of Microbiological Methods
- Journal of Agricultural and Food Chemistry
- Journal of Zhejiang University-SCIENCE B
- International Journal of Food Microbiology
- Letters in Applied Microbiology
- Molecular Plant-Microbe Interactions

- Postharvest Biology and technology
- Critical Reviews in Microbiology

Evaluator of international research projects for:

- United States - Israel Binational Agricultural Research and Development Fund (Bard QICARP Program)
- The Research Foundation Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO, Belgium)
- State of Israel / Ministry of Agriculture & Rural Development.

Membership in Scientific Societies

- Italian Society for Plant Pathology (SIPaV);
- International Society for Molecular Plant-Microbe Interactions (IS-MPMI)
- International Organization for Biological Control of Noxious Animals and Plants (IOBC);
- International Society for Horticultural Science (ISHS);
- American Phytopathological Society (APS).

TEACHING ACTIVITY

Courses for different areas of Plant pathology for Undergraduate and Master Students in Food Science and Technology, Agricultural Sciences and Technologies, Agricultural Biotechnologies, Livestock Science and Productions:

- Postharvest Plant Pathology;
- Biotechnology applications for plant pathology;
- Mycotoxins in agri-food production;
- Mycotoxins in Livestock Productions in the frame of the International Master (2nd level) "Organization and sustainable management of Livestock Production for environmental protection" University of Concepcion del Uruguay (Argentina)-University of Molise. This course has been released on-line.
- Docent at the 3rd School of Physiological Plant Pathology of the Italian Society for Plant Pathology (June 2006, Lucca, Italy).
- Docent at the Department of Plant Pathology, St Istvan Egyptem University, Godollo (Hungary) (academic year 2000-2001, European Interuniversity Programme Socrates-Erasmus).
- Visiting Professor and Docent for 2 months (undergraduate and master students) at the School of Food and Biological Engineering, Jiangsu University, People's Republic of China (academic years 2014-2015 and 2015-2016).
- Visiting Professor and Docent for 1 month at the Fuli Institute of Food Science (FIFS), Zhejiang University, Hangzhou, People's Republic of China (academic years 2014-2015 and 2015-2016).
- Seminars and lectures for PhD students.

Supervision and tutorship of several PhD students. One of these students, Dr. Giuseppe Ianiri, received the 2011 AISSA (Association of the Italian Societies for Agricultural Sciences) award for his doctoral thesis.

APPOINTMENTS AND OTHER DUTIES

- Member of the Board for the evaluation of research projects of the University of Molise;
- In charge for internationalization of the Department of Agricultural, Environmental and Food of the University of Molise; among other initiatives, promotion and implementation of the 4-year contract as a visiting professor for Dr Sandra A. I. Wright (University of Göteborg, Sweden).
- In charge of the Erasmus (EU) International Programme for the master's course (MSc) in Food Science and Technology; promotion and finalization of Erasmus agreements for the mobility of students (including PhD students) and docents with: the University of Copenhagen (Denmark); the Catholic University of Leuven (Belgium); the University of Cadiz (Spain); the University of Gävle (Sweden);

- Member of the Board of the University of Molise for the evaluation of research projects and applications for grants for stays in international research institutions
- Member of the reference Board of the new PhD course "Agricultural Technologies and Biotechnologies", with the duty of General Supervisor of the curriculum "Sustainable Plant Production and Protection";
- Member of the Board for the evaluation of PhD final dissertations for the following PhD courses:
Protection and Quality of Agroalimentary and Forest Productions, the University of Molise;
Plant Pathology, the University of Naples "Federico II";
Agrobiology and Agrochemistry, the University of Naples "Federico II"; PhD course of the Department of Organic Chemistry (thesis pertaining Plant pathology and agricultural issues), the University of Cadiz (Spain);
PhD course of School of Biosystems Engineering and Food Science, Zhejiang University, (People's Republic of China).
- Member of the Italian National Board for the evaluation of competitive assignments of permanent positions in Italian universities.
- Member of the Panel for the triennial evaluation of new Associate Professors in Plant pathology of Italian universities.

FUNDED RESEARCH PROJECTS (role as the Coordinator - i.e. Scientific and Budget Supervisor-, Scientific Supervisor, Head of research unit is indicated)

- Coordinator of the research project "Exploitation of genes and proteins from different biological sources for limiting patulin contamination caused by the pathogenic fungus *Penicillium expansum*. project PRIN-2008, n. 2008JKH2MM, funded by funded by Italian Ministry of Research and University (MIUR).
- Coordinator of the research project "Pilot study on innovative systems for the reduction of patulin contamination in pome fruits", project PRIN-2006, n. 2006072204, funded by MIUR.
- Coordinator of the bilateral project Italy-Spain 2008-2010 "Study of the degradation pathway of the mycotoxin patulin by a basidiomycetous yeast" funded by MIUR and Spanish Ministry of Sciences. Project n. IT088MB951.
- Coordinator of the bilateral project Italy-U.S.A 2008-2010 "Exploiting microbial genes to rid fruit juices of the mycotoxin patulin", in the frame of Joint Projects for the exchange of researchers within the Executive Programme Italy-United States of America, funded by Italian Ministry of Foreign Affairs (MAE). US partner: University of Missouri – Kansas City.
- Coordinator of the Joint Project Italy- People's Republic of China 2002-2006 "Improvement of Biocontrol Efficiency of Yeast Antagonists and Prevention of Mycotoxin Contamination in Stored Fruits" funded by MAE. Chinese partner: Chinese Academy of Sciences.
- Coordinator of the Italy – Belgium joint project 2003-2004 "Study of biochemical and molecular mechanisms of biocontrol yeasts acting against postharvest pathogens of pome fruits and prevention of mycotoxin contamination", funded by MAE. Belgian partner: University of Gembloux.
- Coordinator of the Joint Project Italy- People's Republic of China 2000-2001: Improvement of Biocontrol Efficiency of Yeast Antagonists funded by MAE. Chinese partner: Chinese Academy of Sciences.
- Scientific supervisor of research project (funded by EU through Campania Region, Italy) - PSR 2007-2013 - Mis. 124: DERFRAM "Development of Safe Fruit-Derived Products", 2011-2013.
- Head of Research Unit, COST Action 864 Pomefruit Health (European Union Food and Agriculture)- Combining traditional and advanced strategies for plant protection in pome fruit growing (2006-2011); <http://www.cost864.eu/>
- Head of Research Unit. Project Murst ex quota 40% (2002-2003): Fungal pathogens of harvested fruits and vegetables and antagonistic microorganisms: modes of action, ecology, optimisation of antagonistic activity; Sub-project - Necrotroph pathogens of pome fruits and antagonist yeasts during storage: role of oxidative stress in pathogenesis, in the mechanisms of action of antagonists and interactions involving antagonists, pathogens and fungicides" (prot. 2002073389).

- Head of Research Unit, Progetto Operativo Plurifondo 1999-2000 (EC Operative Project) Sub-programme 6: infrastrutture di supporto ad attività economiche - Misura 6.4 Research, Development and Innovation - "Study on the mechanisms of action of antioxidants".
- Scientific supervisor – Project funded by MIUR, ex quota MURST 60% (1995-1997) - "Mechanisms of Action and Utilization of Yeasts against Postharvest Diseases of Horticultural Crops".
- Scientific supervisor - Project funded by MIUR, ex quota MURST 60% (1999-2000) "Mechanisms and Enhancement of Antagonist Yeasts Action against Postharvest Fungal Pathogens".
- Head of Research Unit, Progetto FAR (Research Fund- University of Molise) "Innovative Strategies for Eco-compatible Protection of Fruit Production" (2003-2005).
- ACP-EU Co-operation Programme in Science and Technology (S&T II) (triennial, 2014-2016). Title of the action: Strengthening innovation and technology dissemination for sustainable development in cereals, cocoa and coffee value chains in Western and Eastern Africa. Cooperation-oriented project in which research has a minor role.
- COST Action 830 (funded by European Union) (1997-2002) Microbial inoculants in agriculture and the environment - Working Group 1 "Microorganism selection, characterization and production (strain selection criteria, methods of selection, genetic modification of strains, physiological characterization, maintenance and biological activity, optimization of microbial production)".
- EU-funded Project R&D "Integrated methods for the prevention of molding in farm-stored grain", n TS2-A-164, 1987/91.
- Progetto Interregionale Frutticoltura Post-Raccolta (2005-2008) "Sviluppo di metodi innovativi di gestione dei frutti nella fase di post-raccolta: definizione degli indici di raccolta in funzione della qualità di consumo e delle modalità di conservazione e commercializzazione. Regione capofila Emilia Romagna.
- Project funded by the Italian Ministry for Agricultural, Alimentary and Forest Policies (MIPAAF) – Application of Biocontrol Strategies for Preventing Contamination with the Mycotoxin Patulin in Pome Fruit and Derived Products (BIOCONPAT) (prot. 977/05; 2006/2007).
- Project of MURST, ex quota 40%, (1996-1997) "Crop defense in ecologically-compatible agricultural systems: Biological activity and mechanisms of action of yeasts antagonists of postharvest fungal pathogens".
- Project CNR (grant CNR: CT 96.00606.CT06) (1994-1997) " Role and technological applications of microflora: utilisation of yeasts and their modes of action in preventing postharvest fungal diseases of horticultural and fruit crops".
- Progetto Operativo Multiregionale (1998-2000) "Valutazione e trasferimento, alla pratica agricola, di norme tecniche per l'accertamento dello stato sanitario di specie ortofrutticole per patogeni pregiudizievoli alla qualità delle produzioni vivaistiche" POM "SSA" Misura 2 C. E. Innovazioni tecnologiche e trasferimento dei risultati di ricerca".
- CNR Strategic Project on Biodiversity (1998-2000) - Characterization and Valorization of Plant, Animal and Microbial Genetic Resources; Biodiversity of Microbes and Insects of Agro-alimentary and Environmental Interest.
- Project of MURST (ex quota 40%, 1999-2000) "Biotechnological Approaches for postharvest control of Botrytis cinerea".
- Progetto Operativo Multiregionale B13 "Il farro, una coltura da recuperare per un'agricoltura sostenibile: Valorizzazione varietale e dei prodotti trasformati per l'alimentazione umana" Misura 2 C. E. "Innovazioni tecnologiche e trasferimento dei risultati di ricerca", 1994/1999.
- Project MURST (1988-1989) "Epidemiology and physiology of fungal diseases of plants", subtitle "Role of lipid fractions from phytopathogenic fungi in the induction of hypersensitive response".
- Project of the National Research Council (CNR) (1987-1988) "Morphological and functional differentiation in plants", subtitle "Molecular basis of plant defense mechanisms following microbial infections".
- Project of the CNR –RAISA (1986-1988), "Biological and molecular basis of plant resistance to biotic and abiotic stress".

PARTICIPATION AS A SPEAKER AT NATIONAL AND INTERNATIONAL EVENTS (where specified, chairman and/or invited speaker)

- "International Symposium on Agricultural and Biological Aspects of Aflatoxin Related Hazards" (New Dehli, India, 22-25 March 1989).
- Convegno "Aspetti Molecolari e Fisiologici delle Interazioni Pianta - Patogeno" (Firenze 1-2 Ottobre 1992).
- 33° Congresso della Società Italiana di Fisiologia Vegetale (Mondello, 26-29 ottobre 1993).
- 8° Incontro "Aspetti Molecolari e Fisiologici delle Interazioni Pianta - Patogeno" (Alghero, 31 maggio – 1 giugno 1994). Speaker and CHAIRMAN of session.
- Workshop "Postraccolta dei Prodotti Ortofrutticoli" organizzato dalla Società Italiana di Orticoltura (Università di Padova, 28 novembre 1996).
- Joint workshop COST 914-COST 915 "Non conventional methods for the control of post-harvest disease and microbiological spoilage" (Bologna, Italy 9-11 October 1997).
- XI Incontro Interazione Ospite - Patogeno. Istituto Sperimentale per la Patologia vegetale, Roma 31 maggio/1 giugno 2001.
- Meeting of IOBC/WPRS - Sixth Workshop of the EFPP Working group: Biological Control of Fungal and Bacterial Plant Pathogens: Biocontrol Agents Modes of Action and Their Interaction with Other Means of Control. Sevilla (Spain) November 30 - December 3, 2000.
- INVITED SPEAKER and CHAIRMAN of session at the 7th Meeting of the IOBC/WPRS Working Group: Biological Control of Fungal and Bacterial Plant Pathogens: "Influence of A-Biotic and Biotic Factors on Biocontrol Agents", Kusadasi, Turkey 22-26 May 2002.
- INVITED SPEAKER at the International Workshop "Development of Biocontrol Agents of Fungal Diseases for Commercial applications in Food Production Systems", Sevilla, Spain, March 24-27 2004.
- 5th International Postharvest Symposium, Verona, Italy, 6-11 June 2004.
- INVITED SPEAKER al 1° congresso nazionale "Le micotossine nella filiera agro-alimentare" (Mycotoxins in Agri-Food production), 29-30 novembre 2004, Istituto Superiore di Sanità, Roma.
- INVITED SPEAKER at the Department of Cell and Molecular Biology, University of Göteborg (Sweden), for the lecture "Biological control of postharvest diseases using naturally occurring yeasts" (May 17th, 2005).
- INVITED SPEAKER at the Meeting "Plant-Pathogen Interactions and Crop Protection on Pome Fruit" of Working groups 1 and 3 of COST Action 864 Combining traditional and advanced strategies for plant protection in pome fruit growing, 28 February March 1 2007. SafeCrop Centre, Istituto Agrario di S. Michele all'Adige (Italy).
- INVITED SPEAKER and CHAIRMAN of session at the International Congress "Novel approaches for the control of postharvest diseases and disorders", COST action 924, 3 - 5 May 2007, Bologna, Italy.
- CHAIRMAN of session and speaker at the XIV Congresso Nazionale SIPaV, Perugia, 18-21 settembre 2007.
- CHAIRMAN and CONVENOR at the XIII International Congress on Molecular Plant-Microbe Interactions, 21-27 July 2007, Sorrento, Italy, for the Special Interest Workshop V, "Exploring the Variety of MPMI that Promote Plant Health".
- INVITED SPEAKER at the meeting of Working group 1 "Host-Pathogen interaction" of the COST Action 864 "Combining traditional and advanced strategies for plant protection in pome fruit growing (POMEFRUITHEALTH)" - Ege University, Izmir, Turkey, May 15 and 16, 2008.
- INVITED SPEAKER for the Concurrent session 9, "Post-harvest pathology, Part 2: Effects of host, pathogen and environmental changes on postharvest disease development", 9th International Congress of Plant Pathology (ICPP). Torino (Italy), August 24 -29, 2008.
- INVITED SPEAKER for the Evening Session 13 "Biological control of post-harvest diseases", 9th International Congress of Plant Pathology (ICPP) Torino (Italy), August 24 -29, 2008.
- CONVENOR and ORGANIZER of the International Expert meeting "Interdisciplinary approaches in the study of *Penicillium expansum* - apple fruit pathosystem", for COST Action 864 POMEFRUIT HEALTH. Campobasso, Italy, 16-17 November, 2009.
- XVI Congresso Nazionale SIPaV, Firenze, 14-17 settembre 2010.

Patents:

CASTORIA R, DE CICCIO V, DE CURTIS F, LIMA G (2007). Composizioni, metodo e utilizzo di composti a base di microorganismi per il controllo di funghi fitopatogeni e/o micotossigeni e contenimento dei livelli di micotossine. Italian patent n. 0001385707.

De Curtis F, **Castoria R**, Lima G, De Ciccio V (2011). Nuovi ceppi di lievito e loro uso per il controllo di funghi fitopatogeni. Patent 0001406504.

De Curtis F, **Castoria R**, Lima G, De Ciccio V (2012). New yeast strains and use thereof for the control of phytopathogenic fungi, patent application n. 12751363.8; European Patent EP 2731441 B.

PAPERS

Hongyin Zhang, Gustav Komla Mahunu, **Raffaello Castoria**, Maurice Tibiru Apaliya, Qiya Yang (2017). Augmentation of biocontrol agents with physical methods against postharvest diseases of fruits and vegetables. Trends in Food Science & Technology 69 (2017) 36-45. <http://dx.doi.org/10.1016/j.tifs.2017.08.020>

Xiangfeng Zheng, Qiya Yang, Xiaoyun Zhang, Maurice Tibiru Apaliya, Giuseppe Ianiri, Hongyin Zhang and **Raffaello Castoria** (2017). Biocontrol agents increase the specific rate of patulin production by *Penicillium expansum* but decrease the disease and total patulin contamination of apples. Open access Article, Frontiers in Microbiology. <https://doi.org/10.3389/fmicb.2017.01240>

Giuseppe Ianiri, Gianfranco Panfili, Alessandra Fratianni, Cristina Pinedo, and **Raffaello Castoria** (2017). Patulin Degradation by the Biocontrol Yeast *Sporobolomyces* sp. Is an Inducible Process. Open access Article, Toxins 2017, 9, 61; doi:10.3390/toxins9020061

Giuseppe Ianiri, Alexander Idnurm, **Raffaello Castoria** (2016). Transcriptomic responses of the basidiomycete yeast *Sporobolomyces* sp. to the mycotoxin patulin. BMC GENOMICS 17:210-224. DOI 10.1186/s12864-016-2550-4 <http://bmcbgenomics.biomedcentral.com/articles/10.1186/s12864-016-2550-4>

SAI Wright, DV de Felice, G Ianiri, C Pinedo-Rivilla, F De Curtis, **R Castoria** (2014). Two rapid assays for screening of patulin biodegradation. INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol. 11, p. 1387-1398, ISSN: 1735-1472, DOI 10.1007/s13762-013-0325-x

G. Ianiri, A. Idnurm, S. A. I. Wright, R. Durán-Patrón, L. Mannina, R. Ferracane, A. Ritieni and **R. Castoria** (2013). Searching for Genes Responsible for Patulin Degradation in a Biocontrol Yeast Provides Insight into the Basis for Resistance to This Mycotoxin. APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol. 79, p. 3101-3115. ISSN: 0099-2240, doi: 10.1128/AEM.03851-12

Erika P Abbott, Giuseppe Ianiri, **Raffaello Castoria**, Alexander Idnurm (2013). Overcoming recalcitrant transformation and gene manipulation in Pucciniomycotina yeasts. APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol. 97, p. 283-295. ISSN: 0175-7598, doi: 10.1007/s00253-012-4561-7

F De Curtis, DV de Felice, G Ianiri, V De Ciccio, **R Castoria** (2012). Environmental factors affect the activity of biocontrol agents against ochratoxigenic *Aspergillus carbonarius* on wine grape. INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, vol. 159, p. 17-24, ISSN: 0168-1605

Castoria R, Mannina L, Duran-Patron R, Maffei F, Sobolev AP, De Felice DV, Pinedo-Rivilla C, Ritieni A, Ferracane R, Wright SAI (2011). Conversion of the Mycotoxin Patulin to the Less Toxic Desoxyapatulinic Acid by the Biocontrol Yeast *Rhodospiridium kratochvilovae* Strain LS11. JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol. 59, p. 11571-11578, ISSN: 0021-8561, doi: 10.1021/jf203098v

Ianiri G, Wright SAI, **Castoria R**, Idnurm A (2011). Development of resources for the analysis of gene function in Pucciniomycotina red yeasts. FUNGAL GENETICS AND BIOLOGY, vol. 48, p. 685-695, ISSN: 1087-1845, doi: 10.1016/j.fgb.2011.03.003

Lima G, **Castoria R**, De Curtis F, Raiola A, Ritieni A, De Ciccio V (2011). Integrated control of blue mould using new fungicides and biocontrol yeasts lowers levels of fungicide residues and patulin contamination in apples. POSTHARVEST BIOLOGY AND TECHNOLOGY, vol. 60, p. 164-172, ISSN: 0925-5214, doi: 10.1016/j.postharvbio.2010.12.010

Castoria R, ET AL (2010). Metodi di difesa a basso impatto. In: Metodi Innovativi della Gestione dei Frutti nella fase post-raccolta. p. 53-88, Regione Emilia-Romagna - Servizio Sviluppo del Sistema Agroalimentare - Assessorato Agricoltura

de Felice DV, Solfrizzo M, De Curtis F, Lima G, Visconti A, **Castoria R** (2008). Strains of *Aureobasidium pullulans* Can Lower Ochratoxin A Contamination in Wine Grapes. *PHYTOPATHOLOGY*, vol. 98, p. 1261-1270, ISSN: 0031-949X, doi: 10.1094/PHYTO-98-12-1261

Dario V. De Felice, Michele Solfrizzo, Filippo De Curtis, Angelo Visconti, Vincenzo De Cicco, **Raffaello Castoria** (2007). *Aureobasidium pullulans* strains degrade Ochratoxin A in vitro and protect wine grape from ochratoxigenic *Aspergillus carbonarius*. *IOBC/WPRS BULLETIN*, vol. 30, p. 203-207, ISSN: 1027-3115

Lima G., **Castoria R**, Spina A.M., Caputo L., De Curtis F. (2005). Improvement of biocontrol yeast activity against postharvest pathogens: recent experiences. *ACTA HORTICULTURAE*, vol. 682, p. 2035-2040, ISSN: 0567-7572

Castoria R, Morena V, De Curtis F, De Felice DV, De Cicco V, Caputo L (2005). Phenotypic traits of wound competence of postharvest biocontrol yeasts and potential of these microorganisms for prevention/detoxification of mycotoxins. *ACTA HORTICULTURAE*, vol. 682, p. 2147-2152, ISSN: 0567-7572

Castoria R, Morena V, Caputo L, Panfili G, De Curtis F, De Cicco V (2005). Effect of the biocontrol yeast *Rhodotorula glutinis* strain LS11 on patulin accumulation in stored apples. *PHYTOPATHOLOGY*, vol. 95, p. 1271-1278, ISSN: 0031-949X, doi: 10.1094/PHYTO-95-1271

Lima G, Spina AM, **Castoria R**, De Curtis F, De Cicco V (2005). Integration of Biocontrol agents and food-grade additives for enhancing protection of stored apples from *Penicillium expansum*. *JOURNAL OF FOOD PROTECTION*, vol. 68, p. 2100-2106, ISSN: 0362-028X

Castoria R, Lima G, Ferracane R, Ritieni A (2005). Occurrence of mycotoxins in Farro samples from southern Italy. *JOURNAL OF FOOD PROTECTION*, vol. 68, p. 416-420, ISSN: 0362-028X

De Curtis F, Caputo L, **Castoria R**, Lima G, Stea G, De Cicco V (2004). Use of fluorescent amplified fragment length polymorphism (FAFLP) to identify specific molecular markers for the biocontrol agent *Aureobasidium pullulans* strain LS30. *POSTHARVEST BIOLOGY AND TECHNOLOGY*, vol. 34, p. 179-186, ISSN: 0925-5214, doi: 10.1016/j.postharvbio.2004.05.008

Lima G, De Curtis F, **Castoria R**, De Cicco V (2003). Integrated control of apple postharvest pathogens and survival of biocontrol yeasts in semi-commercial conditions. *EUROPEAN JOURNAL OF PLANT PATHOLOGY*, vol. 109, p. 341-349, ISSN: 0929-1873, doi: 10.1023/A:1023595529142

Castoria R, Caputo L, De Curtis F, De Cicco V (2003). Resistance of postharvest biocontrol yeasts to oxidative stress: A possible new mechanism of action. *PHYTOPATHOLOGY*, vol. 93, p. 564-572, ISSN: 0031-949X, doi: 10.1094/PHYTO.2003.93.5.564

A. Logrieco, M. Solfrizzo, **Castoria R**. (2002). Funghi tossigeni e micotossine: Filiera ortofrutticola. *INFORMATORE FITOPATOLOGICO*, vol. 12, p. 28-34, ISSN: 0020-0735

Castoria R, Caputo L., Morena V., De Cicco V. (2002). Biocontrol yeasts metabolise the mycotoxin Patulin. *IOBC/WPRS BULLETIN*, vol. 25 (10), p. 41-44, ISSN: 1027-3115

Lima G., **Castoria R**, F. De Curtis, L. Caputo, A.M. Spina, V. De CICCO (2002). Attività contro patogeni postraccolta di microrganismi della fillosfera e carposfera di piante agrarie. In: *TECNICHE POSTRACCOLTA DEI PRODOTTI ORTOFRUTTICOLI*. p. 189-197, FIRENZE: Arsia

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