

## 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 - Cell phone +39 320 4309097

Email castoria@animol.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 at 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 (2005-2007). This course was taught 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, PhD students) at the School of Food and Biological Engineering, Jiangsu University, People's Republic of China (academic years 2014-2015, 2015-2016 and 2019-2020).
- 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, 2015-2016, and 2016-2017).
- 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 activity funded by LeSaffre (<https://www.lesaffre.com>) aimed at the molecular characterization, study of the mechanisms of action and practical utilization of biocontrol yeasts patented by Castoria et al (see below Section Patents) (2016-2018, Budget 150,000 €).
- Coordinator of the research activity funded by Agroventures aimed at the molecular characterization, study of the mechanisms of action and practical utilization of the biocontrol yeast strain PTAV22 (2018 - ongoing activity, Budget 150,000 €).
- Scientific supervisor of the research project (funded by EU through Campania Region, Italy) - PSR 2007-2013 - Mis. 124: DERFRAM "Development of Safe Fruit-Derived Products", 2011-2013.
- 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.
- 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 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.
- 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).
- 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”.

## **INTERNATIONAL COLLABORATIONS (as witnessed by common papers)**

Prof. Alexander Idnurm, The University of Melbourne, Faculty of Sciences, School of Botany Parkville 3010 VIC Australia, Email: [alexander.idnurm@unimelb.edu.au](mailto:alexander.idnurm@unimelb.edu.au)

Prof. Joseph Heitman, Chair, Department of Molecular Genetics and Microbiology, Duke University Medical Center, , Research Drive, Durham, NC 27710 USA, Email: [heitm001@duke.edu](mailto:heitm001@duke.edu)

Prof Rosa Duràn-Patròn Departamento de Química Orgànica, Facultad de Ciencias, Universidad de Càdiz, Spain, Email: [rosa.duran@uca.es](mailto:rosa.duran@uca.es)

Prof Sandra A.I. Wright, Section of Biology, Faculties of Health and Occupational Studies & Engineering and Sustainable Development, University of Gavle, Sweden, Email: [Sandra.Wright@hig.se](mailto:Sandra.Wright@hig.se)

Prof Zhang Hongyin School of Food and Biological Engineering, Jiangsu University, Zhenjiang, China, Email: [zhanghongyin126@126.com](mailto:zhanghongyin126@126.com)

## **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 CICCO V, DE CURTIS F, LIMA G (2011). 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 0001385707 released on January 31, 2011.  
[http://www UIBM.gov.it/UIBM/dati/stampa\\_elenco\\_info.aspx?load=info\\_stampMain&id=1533392&table=Invention](http://www UIBM.gov.it/UIBM/dati/stampa_elenco_info.aspx?load=info_stampMain&id=1533392&table=Invention)

De Curtis F, **Castoria R**, Lima G, De Cicco V (2014). Nuovi ceppi di lievito e loro uso per il controllo di funghi fitopatogeni. Patent application n. ITMI2011A001292-2013; Italian Patent 1406504 released on February 28, 2014.

De Curtis F, **Castoria R**, Lima G, De Cicco V (2016). New yeast strains and use thereof for the control of phytopathogenic fungi – Patent application WO2013008173; European Patent PCT2731441 B released on February 10, 2016.

**Castoria R**, De Cicco V, De Curtis F, Ianiri G, Lima G, Palmieri D (2021). Patent application n. 102021000009128: Nuovo ceppo di lievito e suoi usi per il controllo di fitopatogeni, to be extended in EU and USA.

## PAPERS

Influence of Biocontrol and Integrated Strategies and Treatment Timing on Plum Brown Rot Incidence and Fungicide Residues in Fruits (2022). Davide Palmieri, Giuseppe Ianiri, Thomas Conte, **Raffaello Castoria**, Giuseppe Lima and Filippo De Curtis. Agriculture 2022, 12, 1656. <https://doi.org/10.3390/agriculture12101656>

Davide Palmieri, Cecilia Miccoli, Ivan Notardonato, Pasquale Avino, Giuseppe Lima, Filippo De Curtis, Giuseppe Ianiri and **Raffaello Castoria** (2022). Modulation of extracellular *Penicillium expansum*-driven acidification by *Papiliotrema terrestris* affects biosynthesis of patulin and has a possible role in biocontrol activity. Frontiers in Microbiology, Volume 13, 1 August 2022. <https://doi.org/10.3389/fmicb.2022.973670>

Advances and Perspectives in the Use of Biocontrol Agents against Fungal Plant Diseases (2022). Davide Palmieri, Giuseppe Ianiri, Carmine Del Grosso, Giuseppe Barone, Filippo De Curtis, **Raffaello Castoria** and Giuseppe Lima. Horticulturae 2022, 8, 577. <https://doi.org/10.3390/horticulturae8070577>

Exopolysaccharide from the yeast *Papiliotrema terrestris* PT22AV for skin wound healing (2022). Hamidi, M., Okoro, O.V., Ianiri, G., Jafari, H., Rashidi, K., Ghasemi, S., **Castoria, R.**, Palmieri, D., Delattre, C., Pierre, G., Mirzaei, M., Nie, L., Samadian, H., Shavandi, A. Journal of Advanced Research (IN PRESS). <https://doi.org/10.1016/j.jare.2022.06.012>

Jana Tkáčová, Giacomo Zara, Giuseppe Ianiri, **Raffaello Castoria**, Milan Čertík, Ilaria Mannazzu (2022). Impairment of carotenoid biosynthesis through CAR1 gene mutation results in CoQ<sub>10</sub>, sterols, and phytoene accumulation in *Rhodotorula mucilaginosa*. *Applied Microbiology and Biotechnology* 106(1), pp. 317-327. <https://doi.org/10.1007/s00253-021-11673-5>

Palmieri D., Barone G., Cigliano R. A., De Curtis F., Lima G., **Castoria R.**, and Ianiri G (2021). Complete Genome Sequence of the Biocontrol Yeast *Papiliotrema terrestris* Strain LS28. G3 (Bethesda). 2021 Sep 17:jkab332. doi: 10.1093/g3journal/jkab332. Online ahead of print. PMID: 34534326

Ivan Notardonato, Silvia Gianfagna, **Raffaello Castoria**, Giuseppe Ianiri, Filippo De Curtis, Mario Vincenzo Russo, and Pasquale Avino (2021). Critical review of the analytical methods for determining the mycotoxin patulin in food matrices. *Reviews in Analytical Chemistry* 2021; 40: 144-160, <https://doi.org/10.1515/revac-2021-0131>

Guillaume Legrand Ngolong Ngea, Xin Qian, Qiya Yang, Solairaj Dhanasekaran, Giuseppe Ianiri, Ana-Rosa Ballester, Xiaoyun Zhang, **Raffaello Castoria**, Hongyin Zhang (2021). Securing fruit production: Opportunities from the elucidation of the molecular mechanisms of postharvest fungal infections. *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY* 20:2508-2533. DOI: 10.1111/1541-4337.12729

**Castoria R.**, C. Miccoli, G. Barone, D. Palmieri, F. De Curtis, G. Lima, J. Heitman, and G. Ianiri (2021). Development of molecular tools for the yeast *Papiliotrema terrestris* LS28 and identification of Yap1 as a transcription factor involved in biocontrol activity. *Applied and Environmental Microbiology*, Volume 87, Issue 7 e02910-20, <https://journals.asm.org/doi/10.1128/AEM.02910-20>.

Guillaume Legrand Ngolong Ngea, Qiya Yang, William Tchabo, **Raffaello Castoria**, Xiaoyun Zhang, Hongyin Zhang (2020). *Leuconostoc mesenteroides* subsp. *mesenteroides* LB7 isolated from apple surface inhibits *P. expansum* in vitro and reduces patulin in fruit juices. *International Journal of Food Microbiology* 339, <https://doi.org/10.1016/j.ijfoodmicro.2020.109025>

Guillaume Legrand Ngolong Ngea, Qiya Yang, **Raffaello Castoria**, Xiaoyun Zhang, Michael N Routledge, Hongyin Zhang (2020). Recent trends in detecting, controlling, and detoxifying of patulin mycotoxin using biotechnology methods. *COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY* 19: 2447-2472. DOI: 10.1111/1541-4337.12599

Cecilia Miccoli, Davide Palmieri, Filippo De Curtis, Giuseppe Lima, Joseph Heitman, **Raffaello Castoria**, Giuseppe Ianiri (2020). The necessity for molecular classification of basidiomycetous biocontrol yeasts. *BIOCONTROL*, ISSN: 1573-8248, doi: 10.1007/s10526-020-10008-z

Zajc J, Cernosa A, Francesco AJ, **Castoria R**, Curtis FD, Lima G, et al. (2020) Characterization of *Aureobasidium pullulans* Isolates Selected as Biocontrol Agents Against Fruit Decay Pathogens. *Fungal Genomics & Biology*. 10:163. DOI: 10.35248/2165-8056.20.10.163

Filippo De Curtis, Giuseppe Ianiri, Assunta Raiola, Alberto Ritieni, Mariantonietta Succi, Patrizio Tremonte, **Raffaello Castoria** (2019). Integration of biological and chemical control of brown rot of stone fruits to reduce disease incidence on fruits and minimize fungicide residues in juice. *Crop Protection* 119: 158-165. <https://doi.org/10.1016/j.cropro.2019.01.020>

Pinedo, Cristina-Rivilla; Wright, Sandra; Collado, Isidro; Goss, Rebecca; **Castoria, Raffaello**; Hrelia, Patrizia; Maffei, Francesca; Durán-Patrón, Rosa (2018). Isotopic Labeling Studies Reveal the Patulin Detoxification Pathway by the Biocontrol Yeast *Rhodotorula kratochvilovae* LS11. *Journal of Natural Products* 81 (12), 2692-2699. DOI: 10.1021/acs.jnatprod.8b00539

Zhang H., Mahunu G.K., **Castoria R.**, Yang Q., Apaliya M.T. (2018). Recent developments in the enhancement of some postharvest biocontrol agents with unconventional chemical compounds. *Trends in Food Science and Technology* 78: 180-187. <https://doi.org/10.1016/j.tifs.2018.06.002>

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