

## **Dr. Antonio Moretti**

**Country:** Italian; **Birth:** Bari, 01.09.1960

**English and French read, written and spoken fluently.**

### **Professional Appointments**

**Current Position: Senior Research at ISPA** (Institute of Sciences of Food Production) - **CNR** (National Council of Research), Bari, Italy.

**2013** Enabled as **Full Professor of Plant Pathology** by National Academic Scientific Evaluation system 2012 of the Ministry of University and Research

**2007 to date** Pointed as **Senior Research** at ISPA

**1998-2007** Permanent position as Researcher to the **ITEM** (Istituto tossine e micotossine da parassiti vegetali), since 2001 become **ISPA**

**1994-1998** Obtained a position for 4 years as Researcher to the **ITEM**

**1989-1993** Fellowship to the **ITEM** titled "Chemical and genetic analysis of toxigenic fungi and their mycotoxins"

**1988** Master in Agricultural Sciences "Università degli studi" Bari.

### **H-index of Antonio Moretti**

**30** (Source: Institute for Scientific Information (ISI) Web of Science);

**34** (Source: Google-Scholar).

### **Project responsibility**

**1999-2003 National Vice-delegate** for the COST Action 835 "**Agriculturally important toxigenic fungi**" of European Union, being active in the Working groups "Biodiversity, Phylogeny, and Taxonomy of Toxigenic Fungi" and "Genetics and Diagnosis of Toxigenic Fungi" and "Ecology and Pathogenicity of toxigenic fungi"

**2000-2005** Responsible for the Institute of the EU project of the Fifth Framework "Quality of life and Management of Living Resources" titled "**Sustainability, product safety and quality in cereals: development of novel quantitative models for risk assessment for mycotoxigenic *Fusarium* species**"

**2004-2006** Scientific responsible within the 6<sup>th</sup> program Food Quality and Safety EU "**Characterize and utilize mating type genes in biocontrol strains to improve mycoherbicide efficacy**" (Specific Targeted Research Project Food-CT-2003-001687) of the workpackage "The identification of molecular markers to recognize biocontrol agent strains after their release into the soil"

**2006-to 2007.** Responsible for ISPA of the **First** year Project "**Evaluation of fungicide efficacy on wheat kernels for the reduction of *Fusarium graminearum* incidence on Head Blight**" with funding of and in cooperation with Syngenta Crop Protection S.P.A.

**2007-2010** Responsible for ISPA of the MUR Project **AGROGEN** (Laboratory of GENomics for traits of AGRONomic importance in durum wheat: identification of useful genes, functional analysis and assisted selection by biological markers for the development of the national seed chain).

**2008-to 2009.** Responsible for ISPA of a the **Second** year Project "**Evaluation of fungicide efficacy on wheat kernels for the reduction of *Fusarium graminearum* incidence on Head Blight**" with funding of and in cooperation with Syngenta Crop Protection S.P.A.

**2009-to 2011** Responsible for ISPA of the EFSA project "Modelling, predicting and mapping the emergence of aflatoxins in cereals in the EU due to climate change"

**2009-to date** Support leader of WP6 "Advanced technologies for diagnostics, quantitative detection and novel approaches to control toxigenic fungi" within the *Large collaborative project* of European Union "**MYCORED**" "Novel integrated strategies for worldwide mycotoxin reduction in food and feed chains", KBBE-2007-2-5-05 of 7<sup>th</sup> Framework

**2011-to date** Responsible of the WP Study of *Alternaria* biodiversity for the improvement of quality and safety of cereal chain on the behalf of the National Project Integrated Knowledge for the sustainability and innovation of the *Made in Italy* Agro-food “CISIA”

**2011-to date** for ISPA Bari of the National Project “Strengthening of High Education in the cereal food chain for the development of Agro-food system in Southern-Italy” PON01\_01145/F1 CUPB78F11000180005 ”ISCOCEM”.

**2015-2017** Responsible of Bilateral Project CNR-CONICET (Argentina) “*Fusarium* species in cereals: ecophysiology on fumonisin production and its impact on food safety.”

**2015- 2016** Responsible of the project “**Evaluation of fungicide and biostimulant efficacy on maize plants for the reduction of mycotoxin contamination of maize kernels**” with funding of and in cooperation with Adama Makhteshim LTD.

#### **Main Project Participation.**

**2005-2007** Participation in the MYCO-GLOBE (Integration of Mycotoxins and Toxigenic Fungi, Research for Food Safety in Global System), Concerted Action of the European Union, during which is member of the **European Delegation for two bilateral meeting** in New Orleans between European and US scientist working on **Mycotoxins and Toxigenic Fungi**: The EU-USA Bilateral Workshop on Toxigenic Fungi and Mycotoxins, held in New Orleans, July 5-7, 2005 at the USDA/ARS, Southern Regional Research Center; The EU-Australia Bilateral Symposium on Mycotoxins, held in Sydney, 15-17 February 2006, at Botanic Gardens Trust.

**2000-2003** participation to the EU project “Early Detecion of Toxigenic *Fusarium* species and Ochratoxigenic Fungi in Plant Products (“DeTox-Fungi” QLRT 1999-01380) of the V Framework

**2004-2007** participation within the 6<sup>th</sup> program EU “**Food safety and quality monitoring with microsystems**” (Integrated Project IST 2002-508774) of the workpackage “Microsystems technology solutions for rapid detection of Toxigenic Fungi and mycotoxins”

#### **Main experiences abroad**

**1991** One year as visiting scientist to the **National Centre for Agricultural Utilization Research, United States Department of Agriculture, Peoria, USA** on “Genetics of *Fusarium* and sexual compatibility of the toxigenic population of *Fusarium*”.

**1995** Period of 3 months as visiting scientist to the laboratory of **Plant Pathology of the Institute for Comprehensive Agricultural Sciences, Faculty of Agriculture, Kinki University, Nara, Japan** on “Molecular genetics of *Fusarium*” supported by a fellowship of Japanese Society for Promotion of Science.

**2007** Invited for a period of **1 month** as visiting scientist at the **National Centre for Agricultural Utilization Research, United States Department of Agriculture, Peoria, USA**, in Robert Proctor lab working on "Screening Polyketide Synthase (PKS) Gene Expression in *Fusarium* Species".

**2011** Invited for a period of **1 month** as visiting scientist at **Department of Microbiology and Immunology- Section Mycology, Universidad Nacional de Río Cuarto, Río Cuarto-Córdoba-Argentina**, in Prof. Sofia Chulze lab, on the behalf of the twinning project on mycotoxins Mycored-PAE between European Union and Argentina.

**2012-2014** Invited 4 times for a period up to **1 month** as visiting scientist at Department of Food Safety & Quality Control di Pechino, Institute of Agro-Products Processing Science and Technology, della Chinese Academy of Agricultural Sciences (IAPPST-CAAS), China, in Prof. Yang LIU, on the behalf of High-end Foreign Experts Recruitment Program of the CAAS applied by the Prof. Y. Liu.

**2014** Invited for a period of **1 month** as visiting scientist at the **Seed Technology & Business, Department of Plant Pathology & Microbiology, Iowa State University, Ames, USA**, in Professor, Gary Munkvold lab working on " Study of pathogenicity and genetic diversity of toxigenic fungal species belonging to *Aspergillus niger* complex occurring on maize".

#### **Main Honors & Services**

**2006 Co-founder** of International Society of Mycotoxicology ( [www.mycotox-society.org/](http://www.mycotox-society.org/) ) to which participate the main International experts of toxigenic fungi and mycotoxins.

**2006 Organizer** and Instructor in the International Fusarium Laboratory Workshop, held in Bari, at ISPA, 4-9 June 2006, and further in 3-8 June **2012**.

**2006 Organizer** and Instructor in the International “Detection techniques for mycotoxins and toxigenic fungi in food chain” held at ISPA in Bari, 2-6 October 2006 in the behalf of MYCO-GLOBE (Integration of Mycotoxins and Toxigenic Fungi, Research for Food Safety in Global System), Concerted Action of the European Union.

**2008. Organizer** and Instructor in the International ISM Training Course “Detection techniques for mycotoxins and toxigenic fungi in food chain” held at ISPA in Bari, September 29<sup>th</sup> - October 3<sup>rd</sup> 2008

**2010. Organizer** and Instructor in the International Training Course MycoRed “Detection techniques for mycotoxin and toxigenic fungi in the food chain” held at ISPA in Bari, October 4<sup>th</sup>-October 8<sup>th</sup> 2010

**2012 Organizer** and Instructor in the International Fusarium Laboratory Workshop, held in Bari, at ISPA, in 3-8 June **2012**.

**2013-to date** Member of Examination Commission of **Plant Pathology** course presso il Dipartimento di Scienze agrarie, degli Alimenti e dell’Ambiente, dell’Università di Foggia

**2014** Chair and Instructor at Workshop-Training Course on “Toxigenic Fungi and Pathogenic Bacteria in Food Chain” held at ISPA in Bari, September 29 - October 3, 2014, Italy

**2015** Chair of **13<sup>th</sup> European Fusarium Seminar**, Martina Franca, Italy 10<sup>th</sup> - 14<sup>th</sup> of May

Member of organizing and scientific committee and invited speaker in various international meetings.

He was also invited as teacher at various Universities.

Referee of various international journals as “*Applied and Environmental Microbiology*”, “*European Journal of Plant pathology*”, “*Food Additives and Contaminants*”, “*International Journal of Food Microbiology*”, “*Journal of Agriculture and Food Chemistry*”, “*Journal of Food Microbiology*”; “*Mycotoxin Research*”, “*Plant Pathology*”; “*Sydowia*”, “*Toxins*”, “*World Mycotoxin Journal*” and many others.

**1991-to date:** dr. Moretti participated to several “short stages” in Italia as well as abroad for International cooperative research, supported by international bilateral project, European Projects, Specific Support Action 835 of EU with several scientists of International fame, in the field of mycology and molecular and biochemical characterization of toxigenic fungi. Main international cooperative research activities in the past and now running: 1) Jerzy Chelkowski, Plant Genetics, Polish Academy of Sciences, Poland,: “Toxigenic and pathogenic fungi in crop plants and agricultural commodities” ;2) Gary Munkvold, Iowa State University, Iowa “Toxigenic *Fusarium* species on Maize” 3) Laslzo Hornok Agricultural Biotechnology Center, Godollo, Hungary,: “Molecular diagnosis of agriculturally important toxigenic fungi” 4) Seiji Ouchi, Institute for Comprehensive Agricultural Sciences, Faculty of Agriculture, della Kinki University, Nara, Giappone “ Molecular genetics of phytopathogenic fungi” 5) Anne Desjardins, National Center for Agricultural Utilization Research, United States Department of Agriculture, Peoria, USA: “Genetics of toxigenic *Fusarium* species” 6) Robert Proctor, National Center for Agricultural Utilization Research, United States Department of Agriculture, Peoria, USA: "Screening Polyketide Synthase (PKS) Gene Expression in *Fusarium* Species" 7) Sofia Chulze, Department of Microbiology and Immunology, University of Rio Cuarto, Argentina: “Design and implementation of a quality management programme in the post-harvest maize kernel storage”. Twinning Mycotoxin Projects UE/Argentina; 8) Yang LIU Department of Food Safety & Quality Control of Beijing, Institute of Agro-Products Processing Science and Technology, of Chinese Academy of Agricultural Sciences (IAPPST-CAAS), China.

**1995-to date:** tutor of several visiting scientists of our Institute within international research exchange programmes, from: Algeria, Argentina, Egypt, Iran, Japan, Moroc, Poland, Russia, Serbia, Slovakia, Tunisia, Turkey, USA.

**1995-to date:** Constantly invited by National and International Institutions for Seminar and Lectures on Toxigenic Fungi and Mycotoxins and to plenary lectures in International Meetings.

Main fields of interest of Dr. Antonio Moretti, are the genetic and toxinogenic characterization of main *Fusarium* species pathogens of agriculturally important crops and the study of their diversity and pathogenicity.

Research activity of Dr. Moretti is well documented by **97** papers on International Journals, **11** book chapters ISI, **6** National Journals and hundreds of abstract and proceedings of National and International scientific meetings.

### **Papers printed on JCR scientific journals.**

#### **2015**

- Lazzaro I., A. **Moretti**, P. Giorni, C. Brera, P. Battilani. 2015. Organic vs conventional farming: Differences in infection by mycotoxin-producing fungi on maize and wheat in Northern and Central Italy. *Crop Protection*, 72: 22-30.
- Köhl J., C. Lombaers, A. **Moretti**, R. Bandyopadhyay, S. Somma, P. Kastelein. 2015. Analysis of microbial taxonomical groups present in maize stalks suppressive to colonization by toxigenic *Fusarium* spp.: A strategy for the identification of potential antagonists. *Biological Control*, 83: 20-28.
- Palacios, S.A., A. Susca; M. Haidukowski; G. Stea; E.Cendoya, M.L. Ramírez, S.N. Chulze, M.C. Farnochi, A. **Moretti**, A.M. Torres. 2015. Genetic variability and fumonisin production by *Fusarium proliferatum* isolated from durum wheat grains in Argentina. *International Journal of Food Microbiology*, 201: 35-41.

#### **2014**

- Susca A., R.H. Proctor, R.A.E. Butchko, M. Haidukowski, G. Stea, A.F. Logrieco, **A. Moretti**. 2014. Variation in the fumonisin biosynthetic gene cluster in fumonisin-producing and nonproducing black aspergilli. *Fungal Genetics and Biology*, 73: 39-52.
- Susca A., A. **Moretti**, G. Stea, A. Villani, A.F. Logrieco, G. Munkvold. 2014. Comparison of species composition and fumonisin production in *Aspergillus* section *Nigri* populations in maize kernels from USA and Italy. *International Journal of Food Microbiology*.
- Moretti** A., Panzarini G., Somma S., Campagna C., Ravaglia S., Logrieco A.F., Solfrizzo M. 2014. Systemic Growth of *F. graminearum* in Wheat Plants and Related Accumulation of Deoxynivalenol. *Toxins*, 6(4): 1308-1324
- Logrieco A.F., M. Haidukowski, A. Susca, G. Mulè, G.P. Munkvold and A. **Moretti**. 2014. *Aspergillus* section *Nigri* as contributor of fumonisin B2 contamination in maize. *Food Additives & Contaminants: Part A*, 31, 144-155.
- Somma S., A. L. Petruzzella, A. Logrieco, G. Meca, O. S. Cacciola and A. **Moretti\***. 2014. Phylogenetic analyses of *Fusarium graminearum* strains from cereals in Italy, and characterisation of their molecular and chemical chemotypes. *Crop and Pasture Science*, 65, 52-60. **\*Corresponding author**
- Malysheva SV., V. Polizzi, A. **Moretti**, N. De Kimpe, J. Van Boclaer, S. De Saeger. 2014. Untargeted screening of secondary fungal metabolites in crude extracts and samples from mouldy indoor environments by time-of-flight mass spectrometry. *World Mycotoxin Journal*, 7, 35-44.

#### **2013**

- Moretti** A., A. Susca, G. Mulé, A.F. Logrieco, R.H. Proctor. 2013. Molecular biodiversity of mycotoxigenic fungi that threaten food safety. *International Journal of Food Microbiology*, 167, 57–66.
- Proctor R.H., F. Van Hove, A. Susca, G. Stea, M. Busman, T. van der Lee, C. Waalwijk, A. **Moretti**, T.J. Ward. 2013. Birth, death, and horizontal transfer of the fumonisin biosynthetic gene cluster during the evolutionary diversification of *Fusarium*. *Molecular Microbiology*, 90(2):290-306.
- Xu X., LV Madden, SG Edwards, FM Doohan, A **Moretti**, L Hornok, P Nicholson, A Ritieni. 2013. Developing logistic models to relate the accumulation of DON associated with *Fusarium* head blight to climatic conditions in Europe. *European Journal of Plant Pathology*. 137:689–706.
- Sarrocco S., F. Matarese, L. Moncini, G. Pachetti, A. Ritieni, A. **Moretti**, G. Vannacci. 2013. Biocontrol of *Fusarium* head blight by spike application of *Trichoderma gamsii*. *Journal of Plant Pathology*, in press.
- Cuomo V., A. Randazzo, G. Meca, A. **Moretti**, A. Cascione O. Eriksson, E. Novellino, A. Ritieni. 2013. Production of enniatins A, A1, B, B1, B4, J1 by *Fusarium tricinctum* in solid corn culture: structural analysis and effects on mitochondrial respiration. *Food Chemistry*, 15;140(4):784-93.
- 2012**
- Polizzi V., A. Adams , S. De Saeger , C. Van Peteghem , A. **Moretti** , N. De Kimpe. 2012. Influence of various growth parameters on fungal growth and volatile metabolite production by indoor molds. *Science of the Total Environment*. 414:277-86.
- Marín P., A. **Moretti**, A. Ritieni, M.I Jurado, C. Vázquez, M.T. González-Jaén. 2012. Phylogenetic analyses and toxigenic profiles of *Fusarium equiseti* and *Fusarium acuminatum* isolated from cereals from Southern Europe. *Food Microbiology*, 31, 229-237.
- Heperkan D., A. **Moretti**, C. Daskaya, A.F. Logrieco. Toxigenic fungi and mycotoxin associated with figs in the Mediterranean area. *Phytopathologia Mediterranea*, 51, 1, 119–130.
- Sarrocco S., F. Matarese, A. **Moretti**, M. Haidukowski, G. Vannacci. DON on wheat crop residues: effects on mycobiota as a source of potential antagonists of *Fusarium culmorum*. *Phytopathologia Mediterranea*, 51, 1, 225–235.
- Van Asselt E.D., W. Azambuja, A. **Moretti**, P. Kastelein, T.C. De Rijk, I. Stratakou & H.J. Van Der Fels-Klerx 2012: A Dutch field survey on fungal infection and mycotoxin concentrations in maize, Food Additives & Contaminants: Part A: Chemistry, Analysis, Control, Exposure & Risk Assessment, 29, 10, 1556-1565.
- Polizzi V., A. Adams, S.V. Malysheva, S. De Saeger, C. Van Peteghem, A. **Moretti**, A.M. Picco, N. De Kimpe, 2012. Identification of volatile markers for indoor fungal growth and chemotaxonomic classification of *Aspergillus* species, *Fungal Biology*, 116, 9, 941-953.
- 2011**
- Van Hove F., C. Waalwijk, A. Logrieco, F. Munaut, A. **Moretti**. 2011. *Gibberella musae* (*Fusarium musae*) sp. nov.: a new species from banana closely related to *F. verticillioides*. *Mycologia*, 103: 570:585.
- Somma S., G. Pose , A. Pardo, G. Mulè, V. Fernandez Pinto, A. **Moretti**, A.F. Logrieco. 2011. AFLP variability, toxin production and pathogenicity of *Alternaria* species from Argentinean tomato fruits and puree. *International Journal of Food Microbiology*, 145: 414-419.
- De Curtis F., De Cicco V., Haidukowski M., Pascale M., Somma S., A. **Moretti**. 2011. Effects of agrochemical treatments on the occurrence of *Fusarium* ear rot and fumonisin contamination of maize in Southern Italy. *Field Crops Research*, 123: 161–169.
- Rajmohan N., T.J. Gianfagna, G. Meca, A. **Moretti**, N. Zhang. 2011. Molecular identification and mycotoxin production of *Lilium longiflorum*-associated fusaria isolated from two geographic locations in the United States. *European Journal of Plant Pathology*, 131: 631-642.

C.L. Alvarez, S. Somma, R.H. Proctor, G. Stea, G. Mulè, A.F. Logrieco, V. Fernandez Pinto, A. **Moretti**\*. 2011. Genetic Diversity in *Fusarium graminearum* from a Major Wheat-Producing Region of Argentina. *Toxins*, 3, 1294-1309. \* = **Corresponding author**

Sarrocchio S., Matarese F., S. Somma, F. Rossi, A. **Moretti**, G. Vannacci. 2011. Biocontrol of Fusarium Head Blight (FHB) in a multitrophic perspective. *IOBC/wprs Bulletin*, 71: 123-127.

## 2010

Susca A., R.H. Proctor, G. Mulè, G. Stea, A. Ritieni, A. Logrieco, A. **Moretti**. 2010. Correlation of mycotoxin fumonisin B<sub>2</sub> production and presence of the fumonisin biosynthetic gene *fum8* in *Aspergillus niger* from grape. *Journal of Agricultural and Food Chemistry*. 58: 9266-9272.

Somma S., C. Alvarez, V. Ricci, L. Ferracane, A. Ritieni, A. Logrieco, A. **Moretti**\*. 2010. Trichothecene and beauvericin mycotoxin production and genetic variability in *Fusarium poae* isolated from wheat kernels from northern Italy. *Food Additives and Contaminants*, 27: 729-737.

\*= corresponding author

**Moretti** A., L. Ferracane, S. Somma, V. Ricci, G. Mulè, A. Susca, A. Ritieni, A. Logrieco. 2010. Identification, mycotoxin risk and pathogenicity of *Fusarium* species associated to fig endosepsis in Apulia. *Food Additives and Contaminants*, 27: 718-728.

Alvarez C.L., Somma S., **Moretti** A., Fernández Pinto V. 2010. Aggressiveness of *Fusarium graminearum sensu stricto* isolates in wheat kernels in Argentina. *Journal of Phytopathology*. 158: 173-181

Jurado M., P. Marín, C. Callejas, **A. Moretti**, C. Vázquez, M.T. González-Jaén. 2010. Genetic variability and fumonisin production by *Fusarium proliferatum*. *Food Microbiology*. Vol. 27 50-57.

Ganassi S., P. Grazioso, A. **Moretti**, M.A. Sabatini. 2010. Effects of the fungus *Lecanicillium lecanii* on survival and reproduction of the aphid *Schizaphis graminum*. *Biocontrol*. 55: 299-312

Meca G., M.J. Ruiz, J.M. Soriano, A. Ritieni, A. **Moretti**, G. Font, J. Mañes. 2010. Isolation and purification of enniatins A, A1, B, B1, produced by *Fusarium tricinctum* in solid culture, and cytotoxicity effects on Caco-2 cells. *Toxicon*. 56: 418-424.

Meca G., J.M. Soriano, A. Gaspari, A. Ritieni, A. **Moretti**, J. Mañes. 2010. Antifungal effects of the bioactive compounds enniatins A, A1, B, B1. *Toxicon*. 56: 480-485.

Meca G., I. Sospedra, J.M. Soriano, A. Ritieni, A. **Moretti**, J. Mañes. 2010. Antibacterial effect of the bioactive compound beauvericin produced by *Fusarium proliferatum* on solid medium of wheat. *Toxicon*. 56: 349-354.

## 2009

Munkvold G.P., A. Logrieco, **A. Moretti**, R. Ferracane, A. Ritieni. 2009. Dominance of Group 2 and Fusaproliferin production by *Fusarium subglutinans* from Iowa maize. *Food Additives and Contaminants*, 26: 388-394.

O'Donnell K., C. Gueidan, S. Sink, P.R. Johnston, P.W. Crous, A. Glenn, R. Riley, N. Zitomer, P. Colyer, C. Waalwijk, T. van der Lee, **A. Moretti**, S. Kang, H.S. Kim, D.M. Geiser, J. Juba, R.P. Baayen, M.G. Cromey, S. Bithel, D.A. Sutton, K. Skovgaard, R. Ploetz, H.C. Kistler, M. Elliott, M. Davis, B.A.J. Sarver. 2009. A Two-locus DNA Sequence Database for Typing Plant and Human Pathogens Within the *Fusarium oxysporum* Species Complex. *Fungal Genetics & Biology*. 46: 936-948.

Visentin I., G. Tamietti, D. Valentino, E. Portis, P. Karlovsky, **A. Moretti**, F. Cardinale. 2009. The ITS region as a taxonomic discriminator between *Fusarium verticillioides* and *F. proliferatum*. *Mycological Research*. 113: 1137-1145.

Polizzi V., B. Delmulle, **A. Moretti**, A. Picco, Y. Rosseel, R. Kindt, A. Adams, A. Susca, J. Van Bocxlaer, N. De Kimpe, C. Van Peteghem, S. De Saeger. 2009. Mycotoxins and Microbial Volatile Organic Compounds in Mouldy Interiors from Water-damaged Buildings. *Journal of Environmental Monitoring*. 11: 1849-1858.

Logrieco A., **A. Moretti**, M. Solfrizzo. 2009. *Alternaria* mycotoxins: *Alternaria* toxins and plant diseases: an overview of origin, occurrence and risks. *World Mycotoxin Journal*, 2: 129-140.

Cipriani M.G., G. Stea, **A. Moretti**, C. Altomare, G. Mulè, M. Vurro. 2009. Development of a PCR-based assay for the detection of *Fusarium oxysporum* strain FT2, a potential mycoherbicide of *Orobanche ramosa*. *Biological Control*, 50: 78-84.

## 2008

Logrieco A., **A. Moretti**, G. Mulè, C. Paciolla, A. Ritieni. 2008. Advances on the toxicity of the cereal contamination *Fusarium* esadeptipeptides. *Cereal Research Communication*, 36(6): 303-313.

**Moretti A.**, G. Mulè, A. Ritieni, M. Lóday, V. Stubnya, L. Hornok, A. Logrieco. 2008. Cryptic subspecies and beauvericin production by *Fusarium subglutinans* from Europe. *International Journal of Food Microbiology*, 127: 312-315.

Van Lancker F., A. Adams, B. Delmulle, S. De Saeger, **A. Moretti**, C. Van Peteghem, N. De Kimpe. 2008. Use of headspace SPME-GC-MS for the analysis of the volatiles produced by indoor molds grown on different substrates. *Journal of Environmental Monitoring*, 10: 1127-1133.

Xu X.-M., P. Nicholson, M.A. Thomsett, D. Simpson, B.M. Cooke, F.M. Doohan, J. Brennan, S. Monaghan, **A. Moretti**, G. Mule, L. Hornok, E. Beki, J. Tatnell, A. Ritieni, S.G. Edwards. 2008. Relationship between the fungal complex causing *Fusarium* head blight in wheat and environmental conditions. 2008. *Phytopathology*, 98: 69-78.

Xu X.-M., D.W. Parry, P. Nicholson, M.A. Thomsett, D. Simpson, S.G. Edwards, B.M. Cooke, F.M. Doohan, S. Monaghan, **A. Moretti**, G. Tocco, G. Mule, L. Hornok, E. Béki, J. Tatnell, A. Ritieni. 2008. Within-field variability of *Fusarium* ear blight and its associated mycotoxins. *European Journal of Plant Pathology*, 120: 21-34.

## 2007

Stankovic S., J. Levic, T. Petrovic, A. Logrieco, **A. Moretti**\*. 2007. Pathogenicity and mycotoxin production by *Fusarium proliferatum* isolated from onion and garlic in Serbia. *European Journal of Plant Pathology*, 118:165-172. \*Corresponding author

**Moretti A.**, G. Mulè, A. Ritieni, A. Logrieco. 2007. Further data on the production of Beauvericin, Enniatins and Fusaproliferin and Toxicity to *Artemia salina* by *Fusarium* Species of *Gibberella fujikuroi* Species Complex. *International Journal of Food Microbiology*, 118: 158-163

Proctor R.H., R.A.E. Butchko, D.W. Brown, **A. Moretti**. 2007. Functional characterization, sequence comparisons and distribution of a polyketide synthase gene required for perithecial pigmentation in some *Fusarium* species. *Food Additives and Contaminants*, 24: 1076-1087.

Logrieco A., **A. Moretti**, G. Perrone, G. Mulè. 2007. Biodiversity of complexes of mycotoxigenic fungal species associated with *Fusarium* ear rot of maize and *Aspergillus* rot of grape. *International Journal of Food Microbiology*, 119: 11-17.

## 2005

Armengol J., **A. Moretti**, G. Perrone, A. Vicent, J.A. Bengoechea, J. Garcia-Jiménez. Identification, incidence and characterization of *Fusarium proliferatum* on ornamental palms in Spain. 2005. *European Journal of Plant Pathology*, 112: 123-131.

Xu X.-M., D.W. Parry, P. Nicholson, M.A. Thomsett, D. Simpson, S.G. Edwards, B.M. Cooke, F.M. Doohan, J.M. Brennan, **A. Moretti**, G. Tocco, G. Mule, L. Hornok, G. Giczey, J. Tatnell. 2005. Predominance and association of pathogenic fungi causing *Fusarium* ear blight in wheat in four European countries. *European Journal of Plant Pathology*, 112: 143-154.

Xu X.-M., D.W. Parry, S.G. Edwards, B.M. Cooke, F.M. Doohan, A. van Maanen, J.M. Brennan, S. Monaghan, **A. Moretti**, G. Tocco, G. Mule, L. Hornok, G. Giczey, J. Tatnell, P. Nicholson, A. Ritieni. 2004. Relationship between the incidences of ear and spikelet infection of *Fusarium* ear blight in wheat. *European Journal of Plant Pathology*, 110: 959-971.

## 2004

Mulè G., A. Susca, G. Stea, **A. Moretti**. 2004. Specific detection of the toxigenic species *Fusarium proliferatum* and *F. oxysporum* from asparagus plants using primers based on calmodulin gene sequences. *FEMS-Microbiology Letters*, 230 (2): 235-240.

- Mulè G., A. Susca, G. Stea, **A. Moretti**. 2004. A species-specific PCR assay based on the calmodulin partial gene for identification of *F. verticillioides*, *F. proliferatum* and *F. subglutinans*. *European Journal of Plant Pathology*, 110: 495-502.
- Kerényi Z., **A. Moretti**, C. Waalwijk, B. Oláh, L. Hornok. 2004. Mating type sequences in asexually reproducing *Fusarium* species. *Applied Environmental Microbiology*, 70: 4419-4423.
- Moretti A.**, Mulè G., Susca A., Gonzalez-Jaen M.T, Logrieco A. 2004. Toxin profile, fertility and AFLP analysis of *Fusarium verticillioides* from banana fruits. *European Journal of Plant Pathology*, 110:601-609.
- Leslie J.F., K.A. Zeller, A. Logrieco, G. Mulè, **A. Moretti**, A. Ritieni. 2004. Species diversity of and toxin production by strains of *Fusarium* Section *Liseola* isolated from native prairie grasses in Kansas. *Applied Environmental Microbiology*, 70: 2254-2262.
- Làday M., G. Mule', **A. Moretti**, Z. Hamari, A. Juhasz, A. Szécsi, A. Logrieco. 2004. Mitochondrial DNA variability in *Fusarium proliferatum* (*Gibberella intermedia*). *European Journal of Plant Pathology*, 110: 563–571.
- Làday M., A. Juhasz, G. Mule', **A. Moretti**, A. Szécsi and A. Logrieco. 2004. Mitochondrial DNA diversity and lineage determination of European isolates of *Fusarium graminearum* (*Gibberella zeae*). *European Journal of Plant Pathology*, 110: 545–550.

### 2003

- Nabudinská M., A. Ritieni, **A. Moretti**, A. Šrobárová. 2003. Chlorophyll content in maize plants after treatment with fusariotoxins. *Biologia – Section Botany*, 58: 115-119.
- Logrieco A., A. Bottalico, G. Mulè, **A. Moretti**, G. Perrone. 2003. Epidemiology of toxigenic fungi and their associated mycotoxins for some Mediterranean crops. *European Journal of Plant Pathology*, 109: 645-667.

### 2002

- Moretti A.**, A. Belisario, A. Tafuri, A. Ritieni, L. Corazza, A. Logrieco. 2002. Production of beauvericin by different races of *Fusarium oxysporum* f. sp. *melonis*, the *Fusarium* wilt agent of muskmelon. *European Journal of Plant Pathology*, 108: 661-666.
- Macchia L., M.F. Caiaffa, F. Fornelli, L. Calò, S. Nenna, **A. Moretti**, A. Logrieco, A. Tursi. 2002. Apoptosis induced by the *Fusarium* mycotoxin beauvericin in mammalian cells. *Journal of Applied Genetics*, 43A: 363-369.
- Perrone G., G. Mulè, A. Susca, G. Stea, A. Ritieni, **A. Moretti**. 2002. AFLP and toxin analysis of *Fusarium nygamai* and *F. oxysporum* from rice, in Sardinia. *Journal of Applied Genetics*, 43A: 91-101.
- Kerényi Z., G. Mulè, **A. Moretti**, C. Waalwijk, L. Hornok. 2002. Fertility and mating type assessment within *Fusarium proliferatum* isolates from different host plants. *Journal of Applied Genetics*, 43A: 55-68.
- Ganassi S., **A. Moretti**, A.M. Bonvicini Pagliai, A. Logrieco, M.A. Sabatini. 2002. Effect of beauvericin on *Schizaphis graminum* (Aphididae). *Journal of Invertebrate Pathology*, 80: 90-96.
- Logrieco A., G. Mulè, **A. Moretti**, A. Bottalico. 2002. Toxigenic *Fusarium* species and mycotoxins associated with maize ear rot in Europe. *European Journal of Plant Pathology*, 108: 597-608.
- Srobarova A., **A. Moretti**, R. Ferracane, A. Ritieni, A. Logrieco. 2002. Toxigenic *Fusarium* species of *Liseola* section in pre-harvest maize ear rot, and associated mycotoxins, in Slovakia. *European Journal of Plant Pathology*, 108: 299-306.

### 2000

- Ganassi S., **A. Moretti**, C. Stornelli, B. Fratello, A.M. Bonvicini Pagliai, A. Logrieco, M.A. Sabatini. 2000. Effect of *Fusarium*, *Paecilomyces* and *Trichoderma* formulations against *Schizaphis graminum*. *Mycopathologia*, 151: 131-138.



Abdalla M. Y, A. Al-Rokibah, **A. Moretti**<sup>\*</sup>, and G. Mulè. 2000. Pathogenicity of toxigenic *Fusarium proliferatum* from date palm in Saudi Arabia. *Plant Disease*, 84: 321-324. \* = **Corresponding author**

### 1998

- Ritieni A., S.M. Monti, **A. Moretti**, A. Logrieco, M. Gallo, G. Randazzo, R. Ferracane, V Fogliano. 1999. Stability of fusaproliferin, a mycotoxin from *Fusarium* spp. *Journal of the Science of Food and Agriculture*, 79: 1676-1680.
- Logrieco A., B. Doko, **A. Moretti**, S. Frisullo e A. Visconti. 1998. Occurrence of fumonisin B<sub>1</sub> and B<sub>2</sub> in *Fusarium proliferatum* infected Asparagus plants. *Journal of Agriculture and Food Chemistry*, 46: 5201-5204.
- Munkvold G., H.M. Stahr, A. Logrieco, **A. Moretti** e A. Ritieni. 1998. Occurrence of fusaproliferin and beauvericin in *Fusarium*-contaminated livestock feed in Iowa. *Applied Environmental Microbiology*, 64: 3923-3926.
- Logrieco A., **A. Moretti**, G. Castella, M. Kostecky, P. Golinski, A. Ritieni e J. Chelkowi. 1998. Beauvericin production by *Fusarium* species. *Applied Environmental Microbiology*, 64: 3084-3088.

### 1997

- Mulè G., C. Altomare, **A. Moretti**, G. Perrone, A. Logrieco. 1997. Molecular and biochemical characterization of two atypical toxigenic populations of *Fusarium camptoceras*. *Cereal Research Communications*, 25: 607-608.
- Mulè G., **A. Moretti**, C. Altomare, A. Logrieco. 1997. Clustering of toxigenic fungi determined by rDNA sequences. *Cereal Research Communications*, 25: 259-264.
- Logrieco A., A. Ritieni, **A. Moretti**, G. Randazzo, A. Bottalico. 1997. Beauvericin and fusaproliferin, new emerging *Fusarium* toxins. *Cereal Research Communications*, 25: 407-413.
- Moretti A.**, A. Logrieco, B. Doko, S. Frisullo, A. Visconti, A. Bottalico. 1997. *Fusarium proliferatum* from asparagus, in Italy: occurrence, fertility and toxigenicity. *Cereal Research Communications*, 25: 785-786.
- Ritieni A., **A. Moretti**, A. Logrieco, A. Bottalico, G. Randazzo, S.M. Monti, R. Ferracane, V Fogliano. 1997. Occurrence of fusaproliferin, fumonisin B<sub>1</sub>, and beauvericin in maize from Italy. *Journal of Agricultural and Food Chemistry*, 45: 4011-4016.
- Ritieni A., S.M. Monti, G. Randazzo, A. Logrieco, **A. Moretti**, G. Peluso, R. Ferracane, V Fogliano. 1997. Teratogenic effects of fusaproliferin on chicken embryos. *Journal of Agricultural and Food Chemistry*, 45: 3039-3043.

### 1996

- Moretti A.**, A. Logrieco, A. Bottalico, , A. Ritieni, V. Fogliano, e G. Randazzo. 1996. Diversity in beauvericin and fusaproliferin production by different populations of *Gibberella fujikuroi* (*Fusarium* section *Liseola*). *Sydowia*, 48: 45-56.
- Logrieco A., **A. Moretti**, F. Fornelli, V. Fogliano, A. Ritieni, M.F. Caiaffa, G. Randazzo, A. Bottalico e L. Macchia, 1996. Fusaproliferin production by *Fusarium subglutinans* and toxicity to *Artemia salina*, SF-9 insect cells and IARC/LCL 171 human B-Lymphocytes. *Applied Environmental Microbiology*, 62: 3378-3384.

### 1995

- Moretti A.**, G. Bennett, A. Logrieco, A. Bottalico e M.N. Beremand, 1995. Fertility of *Fusarium moniliforme* from maize and sorghum related to fumonisin production in Italy. *Mycopathologia*, 131: 25-29.
- Moretti A.**, A. Logrieco, A. Bottalico A. Ritieni, G. Randazzo e P. Corda, 1995. Beauvericin production by *Fusarium subglutinans* from different geographical areas. *Mycological Research*, 99: 282-286.

- Altomare C., A. Logrieco, A. Bottalico, G. Mulè, **A. Moretti**, A. Evidente. 1995. Production of type A trichothecenes and enniatin B by *Fusarium sambucinum* Fuckel *sensu lato*. *Mycopathologia*, 129: 177-181.
- Logrieco A., **A. Moretti**, A. Ritieni, A. Bottalico e P. Corda. 1995. Occurrence and toxigenicity of *Fusarium proliferatum* from preharvest maize ear rot, and associated mycotoxins, in Italy. *Plant Disease*, 79: 727-731.
- Ritieni A., V Fogliano, G. Randazzo, A. Scarallo, A. Logrieco, **A. Moretti**, L. Mannina, A. Bottalico. 1995. Isolation and characterization of fusaproliferin, a new toxic metabolite from *Fusarium proliferatum*. *Natural Toxins*, 3: 17-20.

#### 1994

- Bottalico A., A. Logrieco, A. Ritieni, **A. Moretti**, G. Randazzo e P. Corda. 1995. Beauvericin and fumonisin B<sub>1</sub> in preharvest *Fusarium moniliforme* maize ear rot in Sardinia. *Food Additives and Contaminants*, 12: 599-607.
- Frisullo S., Logrieco A., **A. Moretti**, G. Grammatikaki, A. Bottalico. 1994. Banana corm and root rot by *Fusarium compactum*, in Crete. *Phytopathologia Mediterranea*, 33: 78-82.

#### 1993

- Logrieco A., **A. Moretti**, C. Altomare, A. Bottalico, Carbonell Torres. 1993. Occurrence and toxicity of *Fusarium subglutinans* from Peruvian maize. *Mycopathologia*, 122: 185-190.
- Logrieco A., **A. Moretti**, A. Ritieni, J. Chelkowski, C. Altomare, A. Bottalico, G. Randazzo. 1993. Natural occurrence of beauvericin in preharvest *Fusarium subglutinans* infected corn ears in Poland. *Journal of Agricultural and Food Chemistry*, 41: 2149-2152.

#### 1992

- Logrieco A., C. Altomare, **A. Moretti**, A. Bottalico. 1992. Cultural and toxigenic variability in *Fusarium acuminatum*. *Mycological Research*, 96: 518-523.

#### Papers on Italian scientific journals or non JCR journals.

- Reyneri, M. Blandino, V. Scarpino, G. Alvisi, A. **Moretti**, D. Ponti, C. Cristiani, S. Somma. 2013. Proteggere il grano duro dalle «nuove» micotossine. *Informatore agrario*, 8/2013, 22-25.
- Moretti A.** 2008. La difesa dalla fusariosi può partire dal seme. *Informatore agrario*, 34/2008, 47-49.
- Moretti A.**, A. Logrieco, A. Bottalico. Micotossine nella filiera cerealicola. 2006. *Informatore Fitopatologico*, 2: 7-13.
- Rodolfi M., D. Rodino, A.M. Picco, **A. Moretti**, A. Ritieni, M. Biloni, M. Tabacchi, S. Martellos, G. Forlani, E. Nielsen, F. Sala. 2005. La colonizzazione fungina delle varietà di *Oryza sativa* L. coltivate in Italia: indagini e aspetti applicativi. *Informatore Botanico Italiano*, 37(1B): 864-865.
- Moretti A.**, L. Corazza, V. Balmas, A. Santori, A. Ritieni. 2002. Funghi tossigeni e micotossine: filiera cerealicola. *Informatore fitopatologico*, 12: 17-22.
- Moretti A.**, G. Mulè, G. Perrone, A. Ritieni, A. Bottalico, A.M. D'Erchia, e A. Logrieco. 1999. *Fusarium proliferatum* from various plants: fertility, toxigenicity, and characterization by RAPDs. *Bulletin of Institute of Comprehensive Agricultural Science Kinki University*, 7: 27-36.
- Stornelli C., F. Porcelli, **A. Moretti**, A. Logrieco. 1998. Prove di controllo delle popolazioni di *Saissetia oleae* (Olivier) in Puglia, mediante distribuzione di funghi isolati nell'area mediterranea. *Micologia Italiana*, 2: 11-18.
- Moretti A.**, A. Logrieco, A. Ritieni, G. Randazzo, A. Bottalico and L. Macchia. 1998. Beauvericin and fusaproliferin: emerging *Fusarium* toxins. *Bulletin of the Institute for Comprehensive Agricultural Sciences Kinki University*, 6: 13-21
- Moretti A.**, A. Bottalico, A. Logrieco, and G. Randazzo. 1998. Toxicity of mating populations of *Gibberella fujikuroi* *Fusarium* section *Liseola* in Italy. *Bulletin of the Institute for Comprehensive Agricultural Sciences Kinki University*, 6: 1-12.
- Moretti A.**, A. Logrieco, A. Bottalico, A. Ritieni, G. Randazzo. 1994. Production of beauvericin by *Fusarium proliferatum*. *Mycotoxin Research*, 10: 73-78.

### Proceedings of Scientific Meetings

- Logrieco A., **A. Moretti**, G. Mulè, G. Perrone, A. Bottalico. 2006. Micotossine e funghi tossigeni nei cereali e nei prodotti cerealicoli (con particolare riferimento alla situazione europea). In “I Georgofili – Quaderni- 2005 – III”, 35-70.
- Cozzi G., C. Stornelli, **A. Moretti**, A. Logrieco, F. Porcelli. 2002. Field evaluation of *Fusarium larvarum* formulations in the biocontrol of *Saissetia oleae* on olive in Apulia. Proceeding of the Fourth International Symposium on Olive Growing, *Acta Horticulturae*, 586:811-814.
- Sagakuchi M., **A. Moretti**, E. Endo, Y. Matsuda, H. Toyoda, S. Ouchi. An approach to the use of plant sensitivity for simple detection of mycotoxin. Proceedings of First Asian Conference of Plant Pathology, Kuala Lumpur, Malaysia; August 2000. pp. 262–79.

### Book Chapters

- Moretti A.**, Sarrocco S. (2016) Fungi. In: Caballero, B., Finglas, P., and Toldrá, F. (eds.) The Encyclopedia of Food and Health vol. 3, pp. 162-168. Oxford: Academic Press.
- Moretti A.**, C. Waalwijk, R. Geisen. Identification of *Fusarium* spp. and *Penicillium verrucosum* in the wheat grain chain. 2014. In *Mycotoxin Reduction in Grain Chains*. J.F. Leslie & A.F. Logrieco eds. Wiley Blackwell
- Munaut F., F. Van Hove, **A. Moretti**. Molecular identification of mycotoxigenic fungi in food and feedstuffs. 2011. In *Determining mycotoxins and mycotoxigenic fungi in food and feed*. Sarah DeSaeger ed. Woodhead Publishing Limited, Cambridge, UK, pp. 298-331.
- Proctor H.R., A.E. Desjardins, **A. Moretti**. Biology and chemical complexity of *Fusarium proliferatum*. In *The role of Plant Pathology in Food Safety and Food Security*, Plant Pathology in the 21<sup>st</sup> Century 3. R.N. Strange and M.L. Gullino (Eds.) Springer Science+Business Media, Berlino, Germany. 2010
- Moretti A.**, A. Susca. *Fusarium*. In “*Molecular detection of food borne pathogens*”. Eds Dongiou Liu. Taylor & Francis Group, New York, USA, 2010.
- Logrieco A., **A. Moretti**. 2008. Between emerging and historical problems: An overview of the main toxigenic fungi and mycotoxins in Europe. In “*Mycotoxins: Detection, Methods, Management, Public Health and Agriculture Trade*”. Eds J. Leslie, R. Bandyopadhyay and A. Visconti. Cabi, Publishing, Wallingford, UK, 139-153.
- Rossi V., M. Cigolini, P. La Cava, **A. Moretti**, M. Haidukowski. 2007. Effetto delle condizioni ambientali sulla fusariosi della spiga e sulla contaminazione da deossinivalenolo in frumento duro. In “*Sicurezza alimentare della filiera del frumento duro*”. Eds R. Ranieri, M. Pascale, G. Arlotti e A. Visconti. Grafiche Step Editrice, Parma, Italia, pp39-48.
- Moretti A.**, A. Logrieco, A. Visconti, A. Bottalico An overview of mycotoxins and toxigenic fungi in Italy. 2004. In “ An overview on toxigenic fungi and mycotoxins in Europe, eds Logrieco A. and Visconti A., Kluwer Academic Publishers, Dordrecht, the Netherlands, pp. 141-160.
- Ganassi S., **A. Moretti**, A. Logrieco, A.M. Bonvicini Pagliai, M.A. Sabatini. 2004. A laboratory study on colonisation of aphids by some filamentous fungi. In: Simon J-C, Dedryver CA, Rispe C, Hullé M (eds) Aphids in a New Millennium. Proceedings of the VIth International Symposium on Aphids, Versailles, INRA Editions, pp. 299–306.
- Logrieco A., **A. Moretti**, A. Ritieni, M.F. Caiaffa, L. Macchia. 2002. Beauvericin: Chemistry, biology and significance. In *Advances in microbial research and its biotechnological exploitation*. R. K. Upadhyay (Ed.). Kluwer Academic Publishers, New York, USA: pp. 23-30.
- Logrieco A., C. Altomare, G. Mulè, **A. Moretti**. 1999. Molecular and biochemical characterization of toxigenic *Fusarium* species. In *Recent Research Development in Microbiology*, S.G. Pandalai (Ed.) Research Signpost, Trivandrum, India, 3 (1999): 135-145.