

**PERSONAL INFORMATION**

Surname, Name **MORETTI, ANTONIO**  
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 ORCHID /SCOPUS **0000-0002-5232-6972**  
 Nationality **Italiana**  
 Date and Place of birth **01/09/1960**  
 Cellular **338 6701273**

**WORK EXPERIENCE**

Period (from – to) 1989-UP TO NOW  
 Name and address of employer Institute of Tossine e Micotossine da Parassiti Vegetali, become from 01.01.2001 Institute of Sciences of Food Productions, Research National Council of Italy, Bari, Italy  
 Type of business or sector Public Research Institution  
 Occupation or position held Research Leader  
 Main activities or responsibilities Coordination of Research activities, Proposal and Responsibility of Research Projects  
 Personal registration number 568

**EDUCATION AND TRAINING**

Period (from – to) 1979-1987  
 Name and type of organization providing education Faculty of Agricultural Sciences, Università degli studi di Bari  
 Principal subjects / skills covered Plant Pathology  
 Title of qualification awarded Dr. Agricultural Sciences

NATIVE LANGUAGE **Italian**

**OTHER LANGUAGES**

**ENGLISH FRENCH**  
 Reading Excellent for both languages  
 Writing Good for both Languages  
 Talking Excellent for both Languages

**TRAINING**  
(main)

**1995** 3 month fellowship on "Molecular genetics of *Fusarium*" of Japanese Society for Promotion of Science at Plant Pathology Lab of Agricultural Faculty of Kinki University, Nara, Japan  
**1992-1994** 2 year CNR fellowship at Institute of Tossine e Micotossine da Parassiti Vegetali - CNR  
**1991-1992** CNR fellowship on "Genetics of *Fusarium* and sexual compatibility of the toxigenic population of *Fusarium*" at National Centre for Agricultural Utilization Research, United States Department of Agriculture, Peoria, USA

1989-1991

CNR fellowship "Chemical and genetic analysis of toxigenic fungi and their mycotoxins" presso Istituto di Tossine e Micotossine da Parassiti Vegetali - CNR

**ORGANIZATIONAL CAPACITY**  
(main)

Coordination of ISPA, Italian and International Research groups

Organization of several International Meeting

Vice-President of International Society of Mycotoxicology (ISM)

**Research Activities**  
(main)

**01 December 2017 – ongoing** Coordinator at CNR-ISPA, for the project MYTOX-SOUTH, "Intercontinental partnership to mitigate mycotoxins in developing countries" (<http://mytoxsouth.org>)

**April 2016-ongoing** Leader of WP8 "Communication, dissemination & exploitation" of the Horizon 2020 UE Project 678781 **Integrated and innovative key actions for mycotoxin management in the food and feed chain "MycoKey"**

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

**2015- 2017** 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.

**2011-2015** 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".

**2011-2015** 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"

**2009-2014** 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

**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"

**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).

**2006-to 2009.** Responsible for ISPA of 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.

**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**"

## Teaching Activities

(main)

Tutor of 10 Italian and foreigner PhD students and 10 Italian and foreigner Master e Bachelor

Frequently invited for Lectures for Master and PhD students in National and International Universities  
Frequently invited for Seminars at University and Research Institutions

Frequently invited for Keynote, invited or selected presentations in International Meetings

## Publications

H Index 39 (ISI Web) ; 47 Google Scholar

125 articles in International Scientific Journals (ISI)

1 Books (edited)

15 Chapters in books

13 Articles in National or not ISI Scientific Journals (ISI)

over 200 abstracts in international or national congresses

2 patents



Signature

Date

04/04/2020

## Selected publications of the last 5 years

### 2020

- Ferrara M., A.F. Logrieco, A. **Moretti**, A. Susca. A loop-mediated isothermal amplification (LAMP) assay for rapid detection of fumonisin producing *Aspergillus* species. Food Microbiology, in press
- Susca A., A. Villani, A. **Moretti**, G. Stea, A.F. Logrieco. Identification of toxigenic fungal species associated with maize ear rot: Calmodulin as single informative gene. International journal of food microbiology. Vol.:319. Pages: 108491
- Tavakol Noorabadi M., Babaeizad V., Zare R., Asgari B., Haidukowski M., F. Epifani, G. Stea, A. **Moretti**\*, A.F. Logrieco, A. Susca. Isolation, Molecular Identification, and Mycotoxin Production of *Aspergillus* Species Isolated from the Rhizosphere of Sugarcane in the South of Iran. Toxins. Volume: 12. Issue: 2. \*corresponding author
- Brown, DW; A. Villani, A. Susca, A. **Moretti**, G. Hao, H.S. Kim, ; Proctor, Robert, S.P. McCormick. Gain and loss of a transcription factor that regulates late trichothecene biosynthetic pathway genes in *Fusarium*. Fungal genetics and biology, Volume: 136, Pages: 103317

### 2019

- Lo Porto C., F. Palumbo, S. Somma, M. Masiello, A. **Moretti**, F. Fracassi, P. Favia. Plasma-assisted deposition of fungicide containing coatings for encapsulation and protection of maize seeds. Plasma Processes and Polymers, in press. DOI: 10.1002/ppap.201900022
- Fallahi M., H. Saremi, M. Javan-Nikkhah, S. Somma, M. Haidukowski, AF Logrieco, A. **Moretti**\*. Isolation, molecular identification and mycotoxin profile of *Fusarium* species isolated from maize kernels in Iran. Toxins, vol.5, Issue 11. DOI: 10.3390/toxins11050297 \*= Corresponding Author
- Villani, A.; Proctor, R.H.; Kim, H.S.; Brown, D.W; Logrieco, A.F; Amatulli, M.T.; **Moretti, A.\***, Susca, A. Variation in secondary metabolite production potential in the *Fusarium incarnatum-equiseti* species complex revealed by comparative analysis of 13 genomes. BMC Genomics, Volume: 20, Issue: 1, Pages: 314 \*= Corresponding Author
- Moretti** A, Pascale M, Logrieco AF. 2019. Mycotoxin risks under a climate change scenario in Europe. *Trends in Food Science and Technology*, Volume: 84, Special Issue: SI Pages: 38-40.
- Somma S., Amatulli M.T., Masiello M., **Moretti A.\***, Logrieco A.F. 2019. *Alternaria* species associated to wheat black point identified through a multilocus sequence approach. International journal of food microbiology Volume:293 Pages: 34-43. \*= Corresponding Author
- Masiello M., Somma S., Ghionna V., Logrieco A.F., **Moretti A.** 2019. In Vitro and in Field Response of Different Fungicides against *Aspergillus flavus* and *Fusarium* Species Causing Ear Rot Disease of Maize. Toxins Volume:11 Issue:1

### 2018

- Ramires FA, Masiello M., Somma S., Villani A., Susca A., Logrieco A., Luz C., Meca G., **Moretti A.** Phylogeny and Mycotoxin Characterization of *Alternaria* Species Isolated from Wheat Grown in Tuscany, Italy. 2018.Toxins. Vol. 10, Issue 11, Article Number: 472
- Anelli, P, Peterson, SW, Haidukowski, M, Logrieco, AF, **Moretti, A**, Epifani, F, Susca, A. 2018. *Penicillium gravinicaesei*, a new species isolated from cave cheese in Apulia, Italy. International journal of food microbiology. Volume: 282 Pages: 66-70
- Leslie, John F.; Lattanzio, Veronica; Audenaert, Kris; **Moretti A.**, et al.. MycoKey Round Table Discussions of Future Directions in Research on Chemical Detection Methods, Genetics and Biodiversity of Mycotoxins. Toxins. Volume: 10 Issue: 3 Article Number: 109
- Munkvold, G. P.; Weieneth, L.; Proctor, R. H. ; Busman, M, Blandino, M, Susca, A, Logrieco, AF, **Moretti, A.** Plant disease. Volume: 102 Issue: 2 Pages: 282-291

### 2017

- Vanheule, A; De Boevre, M; **Moretti, A**; Scauflaire, J; Munaut, F; De Saeger, S; Bekaert, B; Haesaert, G; Waalwijk, C; van der Lee, T; Audenaert, K. 2017. Genetic Divergence and Chemotype Diversity in the *Fusarium* Head Blight Pathogen *Fusarium poae*. Toxins, 9, 9, art. nr. 255
- Laraba, I; Botregghda, H; Abdallah, N; Bouaicha, O; Obanor, F; Moretti, A; Geiser, DM; Kim, HS; McCormick, SP; Proctor, RH, Kelly, AC; Ward, TJ; O'Donnell, K. 2017 Population genetic structure and mycotoxin potential of the wheat crown rot and head blight pathogen *Fusarium culmorum* in Algeria. Fungal Genetics and Biology,103: 34-41.

### 2016

- Battilani, P; Toscano, P; Van derFels-Klerx, HJ; **Moretti, A**; Leggieri, MC; Brera, C, Rortais, A, Goumperis, T; Robinson, T. 2016.Aflatoxin B-1 contamination in maize in Europe increases due to climate change. ScientificReports,vol. 6. n° 24328
- Pasquali M; Beyer MK, Logrieco A, Audenaert K, Balmas V., Basler R.; Boutigny AL, Chrpova J,Czembor E, Gagkaeva T,Gonzalez-Jaen M, Hoffmann L, Levic J, Marin P, Miedaner T.; Migheli Q, **Moretti A**, Muller MEH, Munaut F, Parikka P, Pallez-Barthel M, Piec J, Scauflaire J, Scherm B,Stankovic S, Thrane U, Uhlig S, Vanheule A,Yli-Mattila T, Vogelgsang S. 2016. A European Database of *Fusarium* graminearum and *F.culmorum*Trichothecene Genotypes. Frontiers, vol. 7 n° 406
- Susca A, Proctor RH., Morelli M, Haidukowski M, Gallo A, Logrieco AF and **Moretti A.** Variation in fumonisin and ochratoxin production associated with differences in biosynthetic gene content in *Aspergillus niger* and *A. welwitschiae* isolates from multiple crop and geographic origins. 2016. Front. Microbiol. 7: n° 1412 doi: 10.3389/fmicb.2016.01412
- Villani A, **Moretti A**, De Saeger S, Han Z, Di Mavungu JD, Soares CMG, Proctor RH, Venâncio A, Lima N, Stea G, Logrieco AF, Susca A. A polyphasic approach for characterization of a collection of cereal isolates of the *Fusarium incarnatum-equiseti* species complex. 2016, International Journal of Food Microbiology; 234:24-35. doi: 10.1016/j.ijfoodmicro