

Personal Data

Surname: Picco

Name: Anna Maria

Date of birth: May 19th 1953

Organization and Position: Università degli Studi di Pavia – Dipartimento di Scienze della Terra e degli Ambienti (DSTA). Associate Professor

Education and training

1994 – to now: Associate professor at the University of Pavia in Plant Pathology (SSD AGR/12)

1980 – 1994: Researcher position at the Institute of Botany (Pavia University);

1979 – 1994: appointed Lecturer of Plant Pathology, University of Pavia;

1978 – 1980: Research fellowship from the Consiglio Nazionale delle Ricerche, University of Pavia;

1979 – Specialization in Microbiology, University of Pavia;

1976 – Degree in Biological Sciences, cum laude, University of Pavia;

Professional experiences

Teaching:

PLANT PATHOLOGY AND POST-HARVEST DISEASES (6 CFU) - M.Sc. in Advanced Biotechnology

PLANT PATHOLOGY (6 CFU) - M.Sc. in Experimental and Applied Biology

PLANT PATHOLOGY (6 CFU) - BSc in Natural Sciences

ENVIRONMENTAL MYCOLOGY (3 CFU) - M.Sc. in Experimental and Applied Biology

Research fields:

Her research activity is carried out within many topics of Mycology (plant pathology, fungal ecology, fungal taxonomy, applied mycology and aeromycology) focusing on the interactions of fungi with the environment and with the organisms they share it with.

Concerning Plant Pathology, research is carried out both in crops (rice, wheat, barley), forest and spontaneous plants, to ascertain the presence of new or endemic fungi and new pathologies in Italy. Moreover, the isolated fungi represent the basis for further studies in Applied mycology, such as enzymes research, biotransformation and biodegradation.

Aeromycological studies have been performed in outdoor and indoor environments, monitoring airborne fungal spores in the atmosphere of towns, urban and rural areas including air mycoflora over crop fields, quantification and biodiversity of moulds in indoor environments, experimental aspects of aeromycology, and health hazards, both to plants, in order to predict the development of diseases, and human beings.

Anna Maria Picco has 40 years of research experience in fungal ecology, applied mycology, aeromycology and plant pathology.

Anna Maria Picco has 35 years of research experience in plant pathology, fungal ecology, applied mycology and aerobiology (aeromycology).

From 2003 to 2015 she was the Coordinator of the Ph.D. Program in Experimental Ecology and Geobotany (Pavia University).

Since 2015 she is member of the Academic board of the PhD Program in Earth and Environmental Sciences.

From January to December 2016 she was the Coordinator of the PhD Program in Earth and Environmental Sciences.

She has published 170 papers; among these 42 are peer reviewed.

She is currently a member of the Editorial Board of “ *Micologia italiana*” (Italian Journal of Mycology)

Scientific Publications and Congress or other Oral Communications

Scientific production according to Google Scholar Metrics: 113 papers (46 indexed in Scopus), total citations: 929 (from 2013: 572); h-index: 18 (from 2013: 14); i10-index: 28 (from 2013: 19).

ORCID: orcid.org/0000-0001-9276-1832

- PANELLI S., Capelli E., Comandatore F., Landinez-Torres A., Granata M. U., Tosi S., Picco A. M. (2017). A metagenomic-based, cross-seasonal picture of fungal consortia associated to Italian soils subjected to different agricultural managements. *FUNGAL ECOLOGY*, vol. 30, p. 1-9, ISSN: 1754-5048, doi: 10.1016/j.funeco.2017.07.005
- GARZOLI L., GNAVI G., TAMMA F., TOSI S., VARESE G. C., PICCO A. M. (2015). Sink or swim: Updated knowledge on marine fungi associated with wood substrates in the Mediterranean Sea and hints about their potential to remediate hydrocarbons. *PROGRESS IN OCEANOGRAPHY*, vol. 137, p. 140-148, ISSN: 0079-6611, doi:<http://dx.doi.org/10.1016/j.pocean.2015.05.028>
- POLIZZI V., ADAMS A., MALYSHEVA S.V., DE SAEGER S., VAN PETEGHEM C., MORETTI A., PICCO A.M., DE KIMPE N. (2012). Identification of volatile markers for indoor fungal growth and chemotaxonomic classification of *Aspergillus* species. *FUNGAL BIOLOGY*. 116 (9): 941–953. <http://dx.doi.org/10.1016/j.funbio.2012.06.001>
- LONGONI P., RODOLFI M., PANTALEONI L., DORIA E., LORENZO C., PICCO A.M., CELLA R. (2012). Functional analysis of the degradation of cellulosic substrates by a *Chaetomium globosum* endophytic isolate. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*, 78 (10): 3693–3705 - DOI: 10.1128/AEM.00124-12

- FAIVRE-RAMPANT O., BRUSCHI G., ABBRUSCATO P., CAVIGIOLO S., PICCO A. M., BORGO L., LUPOTTO E., PIFFANELLI P. (2010). Assessment of genetic diversity in Italian rice germplasm related to agronomic traits and blast resistance (*Magnaporthe oryzae*). *MOLECULAR BREEDING*, 27 (2): 233-246, DOI: 10.1007/s11032-010-9426-0

Grants

- Project CNR-IPRA (1982) – responsible for RU
- Project "Ricerca sul trasferimento di caratteri di resistenza a stress biotici e abiotici alle varietà di riso o ad eventuali ibridi F1 coltivabili in Italia" (1999) - responsible for RU
- "Miglioramento genetico biodiversità del riso coltivato in Italia" finanziato dalla Fondazione Branca-Bussolera (2001) - responsible for RU
- Lombardy Region project "Biomonitoraggio con licheni e microfunghi corticicoli e lichenicoli nell'ottica di una valutazione di impatto e di rischio ambientale delle pratiche agricole in Oltrepo pavese: approccio preliminare", finalizzato alla ricerca di nuovi bio-markers come i microfunghi corticicoli e lichenicoli – principal investigator
- Project LIFE "TRELAGHI" (LIFE 02/ENV/IT/000079) - responsible for RU
- Project LIFEENV "Free PCB" (LIFE 03/ENV/IT/000321) - responsible for RU
- Project CARIPLO "RICEIMMUNITY" (2005)- responsible for RU
- Project ECO.BRICK, FINLOMBARDA (2010) - responsible for RU
- Project PRIN 2008 (Studio delle comunità fungine in contesti di vegetazione artico-alpina dell'Italia centro-settentrionale minacciati dai cambiamenti climatici - 2008AR8MX9_002) - responsible for RU
- Project RISINNOVA, AGER Project (2011) - responsible for RU
- Project POLORISO, MIPAAF (2012) - responsible for RU
- Project "AGROMATRICI BIOATTIVE" (2012), MIUR-Regione Lombardia- responsible for RU