UNIVERSITÀ DEGLI STUDI DI MILANO
FACOLTÀ DI SCIENZE AGRARIE E ALIMENTARI

Paolo Cortesi curriculum vitae

Picture

Degree

- Laurea degree in Agricultural Sciences (1986)
- PhD (1991)

Curriculum vitae

1992: CNR fellow at Department of Plant Pathology, Cornell University, Geneva,NY, USA.
1993-1994: CNR fellow at Università degli Studi di Milano and visiting Scientist at Department of Plant Pathology and Department of Horticultural Sciences, Cornell University, Geneva, NY, USA.
1994-1996: PostDoc at Istituto di Patologia vegetale, Università degli Studi di Milano and visiting Scientist, Department of Plant Pathology, Cornell University, Ithaca, NY, USA.
1998-2002: Researcher (AGR/12) Istituto di Patologia Vegetale at Università degli Studi di Milano.
2002-2004: Associate professor of Plant Pathology (AGR/12) at Istituto di Patologia Vegetale, Università degli Studi di Milano.
2005-now: Full professor of Plant Pathology (AGR/12), Università degli Studi di Milano at Istituto di Patologia Vegetale (till 2008), at Dipartimento di Protezione dei Sistemi Agroalimentare e Urbano e Valorizzazione delle Biodiversità (DiPSA) (till 2012) and at Department of Food, Nutrition and Environmental Sciences (DeFENS) (till now).
2007-2013 member of the PhD board of the PhD school “Chemistry, Biochemistry and Ecology of Pesticides” at Università degli Studi di Milano.
2013-now member of the PhD board of the PhD school “Food Systems” at Università degli Studi di Milano.

Altre attività:
2003-2005: Member elected of the Board of Trustee of the Università degli Studi di Milano.
2005-2008: President of the Faculty Board of the course of Plant Protection.
2006-2012: Member of the Patent Board of the Università degli Studi di Milano.
2009-2011: Department Vice-Head.
2011-2012: Department Head.
2011-now: Member of the editorial board of The Scientific World Journal.
2013-now: Coordinator elected of the DeFENS Department section.
2013-now: Member elected of the DeFENS Department Steering Board.
2014-now: Member of the Technical and Scientific Committee of ERSAF – Regione Lombardia.

Research Interests

Whitin Plant Pathology he studies:
- Biology and epidemiology of grape powdery mildew, and population genetic structure of E. necator.
- Population genetic structure of C. parasitica, vegetative incompatibility, and orizontal virus transmission.
- Biological control of chestnut blight.
- Efficacy, mode and mechanism of action of new fungicides.
- Grape and rice diseases management.
- Etiology of new disease of arable crops, fruit trees and ornamentals.
- Search for new organisms to use for biological control of fungal disaeses.

Most Relevant Papers

1. **Cortesi P**., Gadoury D.M., Seem R.C., Pearson R.C., 1995. Distribution and retention of cleistothecia of *Uncinula necator* on the bark of grapevines. Plant Disease, **79** (1): 15-19.
2. **Cortesi P**., Milgroom M.G., Bisiach M., 1996. Distribution and diversity of vegetative compatibility types in subpopulations of *Cryphonectria parasitica* in Italy. Mycological Research, **100** (9): 1087-1093.
3. **Cortesi P**., Milgroom M.G., 1998. Genetics of vegetative incompatibility in *Cryphonectria parasitica*. Appl. Environ. Microbiol., **64**: 2988-2994.
4. Milgroom M.G., **Cortesi P**., 1999. Analysis of population structure of the chestnut blight fungus based on vegetative incompatibility genotypes. Proc. Natl. Acad. Sci. USA., Vol. **96** (8): 10518-10523.
5. Robin C., Anziani C., **Cortesi P**., 2000. Relationship between biological control, incidence of hypovirulence, and diversity of vegetative compatibility types of *Cryphonectria parasitica* in France. Phytopathology, **90** (7): 730-737.
6. **Cortesi P**., Fischer M., Milgroom M.G., 2000. Identification and spread of *Fomitiporia punctata* associated with wood decay of grapevine showing symptoms of Esca disease. Phytopathology, **90** (9): 967-972.
7. **Cortesi P**., McCulloch C.E., Song H., Lin H., Milgroom M.G., 2001. Genetic control of horizontal virus transmission in the chestnut blight fungus, *Cryphonectria parasitica*. Genetics, **159**: 107-118.
8. Biella S., Smith M.L., Aist J.R., **Cortesi P**., Milgroom M.G., 2002. Programmed cell death correlates with virus transmission in a filamentous fungus. Proceedings of the Royal Society of London, Biological Sciences (Proc. R. Soc. Lond. B), **269** (1506): 2269-2276
9. Milgroom M.G., **Cortesi P**. 2004. Biological control of chestnut blight with hypovirulence: a critical analysis. Annual Review of Phytopathology, **42**: 311-338; (on-line 9 April 2004, DOI 10.1146/annurev.phyto.42.040803.140325).
10. **Cortesi P.**, Bartoli F., Pizzatti C., Song W.Y., Schaad N.W., 2005. First report of *Acidovorax avenae* ssp. *avenae* on rice in Italy. Journal of Plant Pathology **87** (1): 76.
11. Milgroom M.G., Sotirovski K., Spica D., Davis J.E., Brewer M.T., Milev M., **Cortesi P**., 2008. Clonal population structure of the chestnut blight fungus in expanding ranges in southeastern Europe. Molecular Ecology, **17**: 4446-4458 (doi: 10.1111/j.1365-294X.2008.03927.x)
12. Saracchi M., Rocchi F., Pizzatti C., **Cortesi P**., 2008. Box blight, a new disease of *buxus* in Italy caused by *Cylindrocladium buxicola.* Journal of Plant Pathology, **90**: 565-568.
13. Brewer T.M., Cadle-Davidson L., **Cortesi P**., Spanu P., Milgroom M.G., 2011. Identification and structure of the mating-type locus and development of PCR-based markers for mating type in powdery mildew fungi. Fungal Genetics and Biology, **48**: 704–713 (doi:10.1016/j.fgb.2011.04.004).
14. Kunova A., Pizzatti C., **Cortesi P**., 2013. Impact of tricyclazole and azoxystrobin on growth, sporulation and secondary infection of the rice blast fungus, *Magnaporthe oryzae*. Pest Management Science, **69**: 278-284 (**doi: 10.1002/ps.3386).**
15. Rossaro B**., Cortesi P.,** 2013**.** The effects of tricyclazole treatment on aquatic macroinvertebrates in the field and in laboratory. Journal of Entomological and Acarological Research, 45: 128-36.
16. Rossaro B., Marziali L., **Cortesi P**., 2014. The effects of tricyclazole treatment on aquatic invertebrates in a rice paddy field. Clean - Soil, Air, Water, 42: 29-35. (doi:10.1002/clen.201200215).
17. Kunova A., Pizzatti C., Bonaldi M., **Cortesi P**., 2014. Sensitivity of non-exposed and exposed populations of *Magnaporthe oryzae* from rice to tricyclazole and azoxystrobin. Plant Diseases, 98:512-518.
18. Bonaldi M., Chen X., Kunova A., Pizzatti C., Saracchi M., **Cortesi P**., 2015. Colonization of lettuce rhizosphere and roots by tagged Streptomyces. Front. Microbiol. 6:25. (doi: 10.3389/fmicb.2015.00025).
19. Saracchi M., Sardi P., Kunova A., **Cortesi P**., 2015. Potential host range of Anthostoma decipiens and Endothiella sp., agents of hornbeam blight. Journal of Plant Pathology, 97: 93-97.
20. Kunova A., Pizzatti C., Bonaldi M., **Cortesi P**., 2015. Metrafenone resistance in a population of *Erysiphe necator* in northern Italy. Pest Management Science, **71**: (doi: 10.1002/ps.4060).

21. Chen X., Pizzatti C., Bonaldi M., Saracchi M., Erlacher A., Kunova A., Berg G., **Cortesi P**., 2016. Biological control of lettuce drop and host plant colonization by rhizospheric and endophytic streptomycetes. Front. Microbiol. 7: 714. (doi: 10.3389/fmicb.2016.00714).
22. Kamel M., **Cortesi P**., Saracchi M., 2016. Etiological agents of crown rot of organic bananas in Dominican Republic. Postharvest Biology and Technology **120**: 112–120.
23. Kunova A., Saracchi M., Bonaldi M., Pizzatti C., Chen X., **Cortesi P**., 2016. Selection of Streptomyces against soil borne fungal pathogens by a standardized dual culture assay and evaluation of their effects on seed germination and plant growth. BMC Microbiology, 16: 1-11.
24. Kunova A., Pizzatti C., Cerea M., Cazzaniga A., **Cortesi P**., 2017. New formulation and delivery method of Cryphonectria parasitica for biological control of chestnut blight. Journal of Applied Microbiology, 122: 180-187.
25. Villa F., Cappitelli F., **Cortesi P**., Kunova A., 2017. Fungal biofilms: targets for the development of novel strategies in plant disease management. Front. Microbiol. 8: 654. (doi.org/10.3389/fmicb.2017.00654).