Curriculum Vitae Dr. Caterina Signoretto

Born in Villimpenta (Mantua- Italy), 22/01/1966

Address: Department of Diagnostics and Public Health, Section of Microbiology
University of Verona - Strada Le Grazie, 8 37134 Verona Tel+39 045.8027195
e-mail: caterina.signoretto@univr.it

Academic studies:

- 1991: Degree in Biology (University of Parma).
- 1992: Ability to the profession of Biologist.
- 1996: Specialist in Microbiology and Virology (University of Verona).
- 2001: PhD in Microbiology (University of Padua)

Working experiences

- 1992/93: annual contract of research from C.I.F.A. (Italian Consortium Anti-infectious Drugs).
- 1994: annual research contract from USSL 25 of Verona for the validation of new diagnostic methods.
- 1995 annual research contract from the Consiglio Nazionale delle Ricerche (CNR)
- 1996-2000: Scholarships for PhD, from the Institute of Microbiology of the University of Verona..
- 2001/2003: Two-year research contract from the University of Verona (Institute of Microbiology) for the study of new parameters and new technologies for the evaluation the microbiological pollution of fresh waters.
- 2003-2005: Employed as Technician with a permanent position at the Pathology Department, Section of Microbiology, University of Verona.
- 2006-Today: University Researcher (MED/07), at the Department of Diagnostics and Public Health, Section of Microbiology, University of Verona

Lecturing

- She has gives courses of Microbiology in various 1st, 2nd and 3rd level courses of the Medical school

Research Activity

- Biochemistry and physiology of the peptidoglycan of rods gram-negative bacterial
- Molecular mechanisms of the resistance to β-lactam antibiotics in *E. faecalis*
- Physiological and molecular studies of viable but non-cultivable bacterial forms (VBNC)
- Study of oral microbiology, in particular the capability of substances, especially polyphenols, present in several foods like coffee, tea, barley coffee, wine, to interfere with the adhesion of bacteria responsible for dental caries and periodontal disease to several mouth surfaces.
- More recently she is undertaking applied research to diagnostics, in particular she is studying the genetic variations related to drug resistance of HIV1 viruses and the application of new therapeutic protocols in the antiretroviral therapy.
- Currently, she are carrying out, a project funded by the Cystic Foundation for the study of human and environmental reservoirs of Pseudomonas aeruginosa.