

CRISTINA BOMBIERI

CURRICULUM VITAE

CURRENT POSITION

Associate Professor of Applied Biology, Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona.

Coordinator of the Cystic Fibrosis and Respiratory Diseases research team.

PREVIOUS POSITIONS

2005-2015: Assistant Professor at the University of Verona, Dpt. of Life and Reproduction Sciences; Verona (previously: Dpt. of Mother and Child and of Biology and Genetics; today: Dpt of Neurosciences, Biomedicine and Movement Sciences), Italy.

1998-2004: Fellowship Owner at the University of Verona, Dpt. of Mother and Child and of Biology and Genetics, Verona, Italy.

EDUCATIONAL BACKGROUND

- Degree on Biological Sciences, summa cum laude, University of Padova, Italy, 1992.

- PhD on Molecular and Cellular Biology and Pathology, University of Verona, Italy, 1998.

STAGE IN FOREIGN INSTITUTES

- Stage in the Lab. of Molecular and Epidemiology Genetics, INSERM U613, University of Brest, France, directed by prof. Claude Ferec (9-19 march 2004): Analysis of large CFTR gene rearrangements by Quantitative Multiplex PCR of Short fluorescent Fragments

- Visiting Researcher in the Lab. of Molecular Genetics, INSERM U827, Institute of LClinical Research, Univ. Montpellier, France (october 2007 - september 2008), directed by prof. Mireille Claustres (Dr. M-C Romey's research group) to study CFTR gene expression regulation and functional characterization of promoter mutations.

RESEARCH ACTIVITY

Human Molecular Genetic researches, involving also national and international collaborations with relevant European and American Research Groups: Study of the genetic causes of Cystic Fibrosis and CFTR-Related Diseases, of modifier genes of cystic fibrosis clinical expression, and of genetic components that predispose to the development of some complex diseases (bronchiectasis, COPD, asthma, sarcoidosis), by mutation analysis, genotype-phenotype correlations, linkage and association analysis. Functional characterization of promoter mutations that alters CFTR gene expression. Study of CFTR gene variability in the European population.

Actual work: Molecular-genetic study to determine the involvement of ENAC subunit genes in CF development.

Study of genetic factors involved in occupational asthma development in bakers by candidate gene association analysis.

Case-control association study for the identification of susceptibility genes in asthma, rhinitis and COPD, also considering exposure to the major environmental pollutants (GEIRD - gene environment interaction in respiratory diseases – project).

Person in charge for the preparation of the GEIRD biobank of phenotypically well-characterized subjects for the study of the role of genes and environment on respiratory diseases.

Laboratory jointly responsible for the preparation of a DNA-biobank including a population representative of Italian Veneto Region enrolled for the INCIPE study concerning chronic kidney disease.

INVITED PRESENTATIONS

- CFTR related diseases. 4th International Symposium for Cystic Fibrosis. Budapest, Hungary, 2-3 December, 2000.
- Genetic Tests in Cystic Fibrosis. Medical Genetics Specialization School, University Magna Graecia, Catanzaro, Italy. 24 February 2009.
- Recommendations for the classification of the diseases as CFTR-related disorders. European Cystic Fibrosis Society - Cystic Fibrosis Diagnostic Network Working Group Meeting. Verona, Italy, 10-12 February 2012
- Geni, malattie respiratorie e cardiovascolari. Meeting on COPD and cardiovascular system "Broncopneumopatia cronica ostruttiva: la complessa interazione con l'apparato cardiovascolare". Verona, Italy, 13 December 2012
- Diagnosis of CF and related disorders in the older child and adult. Symposium 21 - Genetics and Diagnosis, 36th European Cystic Fibrosis Conference, Lisbon, Portugal, 12-15 June 2013.
- CFTR related diseases. CF course for early career medical and paramedical health care workers involved in CF care and/or CF research, 38th European Cystic Fibrosis Conference, Brussels, Belgium, 10-13 June 2015.
- Geni Modificatori in CF. Meeting of Italian CF Society. Bari, Italy, 11-14 June 2015.

OTHER SCIENTIFIC ACTIVITIES

- Member of the Italian Society of Human Genetics (SIGU)
- From 2007 to 2008, member of the international study team on CFTR-related disease for the "FP6-funded EurocareCF project. CFTR Related Diseases Subgroup in Workpackage 3 - Coordination of Clinical Research" and organisator of the First International Workshop (Garda Lake, Verona, Italy, 22-23 Mars 2007).
- From 2002 to 2010 member of the Steering Committee at the Italian National Institute of Health for the Italian External Quality Control Program for Cystic Fibrosis Genetic Testing.

PEER-REVIEWER

From 2001, Peer-reviewer for several scientific journals (American Journal of Respiratory Critical Care Medicine, Human Genetics, European Journal of Human Genetics, Journal of Cystic Fibrosis, Acta Paediatrica, Gene, Annals of human biology, Biotechniques, Genetic Testing and Molecular Biomarkers, Molecular Genetics and Metabolism, Journal of molecular diagnostics, etc).

DIDACTICS AND TUTORIAL

- From 2016: Teacher of Medical Genetics, Master's Degree in Medical Bioinformatics; University of Verona.
- From 2016: Teacher of Applied Biology, Bachelor's Degree in Nursing, University of Verona
- From 2015: Teacher of Applied Biology, Bachelor's Degree in Obstetrics, University of Verona.
- From 2011: Teacher of Applied Biology, Bachelor's degree in Physiotherapy (Verona and Vicenza locations), University of Verona.
- From 2005: Teacher of Human Molecular Genetics, Combined Bachelor's + Master's degree in Medicine and Surgery, University of Verona
- From 2005: Member of the Teaching Staff of the PhD on Translational Biomedicine, in the PhD School on Translational Biomedicine, University of Verona
- From 2014: Member of the Teaching Staff of the PhD on Applied Life and Health Sciences, in the PhD School on Life and Health Sciences, University of Verona
- From 2009 to 2011: Teacher of General Biology, Bachelor's Degree in Bioinformatics, University of Verona
- From 2010 to 2015: Teacher of Molecular Diagnosis of Genetic Diseases, Master's Degree in Bioinformatics and Medical Biotechnologies, University of Verona
- From 2016 to 2018: Teacher of "Biology" in the Postgraduate Specialisation in Gynaecology and Obstetrics, University of Verona
- From 2009 to 2011: Teacher of "Population Genetics" in the Postgraduate Specialisation in Medical Genetics, University of Verona.
- From 2006 to 2011: Teacher of "Molecular Diagnosis of Genetic Diseases" in the Postgraduate Specialisation in Medical Genetics, University of Verona.
- Tutorial activity for Biological Sciences, Medicine and Surgery, and Biomedical Laboratory Assistant degrees.