

CURRICULUM VITAE

COCUZZA CLEMENTINA ELVEZIA ANNA

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Place and date of birth: Catania, 26th September 1963

Nationality: Italian

Married with 4 children

EDUCATION:

1968-1975 Istituto Sacro Cuore, Catania.
1976-1980 Rye St. Antony School, Oxford, England.
1981-1987 The London Hospital Medical College, London, England.

ACADEMIC TITLES:

1984 *Bachelor of Science* (BSc.), "Intercalated BSc" awarded during attendance The London Hospital Medical School, University of London.
1987 *Bachelor of Medicine and Surgery* (MBBS), The London Hospital Medical School, University of London. (Granted equivalence to the Italian Degree in Medicine and Surgery DR N° 123907 of 26th July 1988).
1992 *Master of Science* (MSc) in Clinical Microbiology, University of London.
1993 *Dottorato di Ricerca* (PhD) in Clinical Microbiology, University of Milano.

PRESENT WORKING POSITION:

From 2001 Associate Professor of Microbiology and Clinical Microbiology

Scientific Sector Code: MED/07

Department of Medicine and Surgery,

School of Medicine and Surgery,

University of Milano-Bicocca

MAIN ACTIVITIES AND RESPONSIBILITIES:

From 1999 – Head of the Laboratory of Clinical Microbiology and Virology of the University of Milano-Bicocca.

From 2006 – Director of the Health Service Laboratory (SMeL): "Laboratory of Clinical Microbiology and Virology" of the University of Milano-Bicocca (authorization Regione Lombardia n. VIII/003460; 7th November 2006).

Institutional Activities:

- Academic Coordinator for the IV Semester of the Degree Course in Medicine and Surgery.
- Member of the Committee "Tecnica di Programmazione" for the School of Medicine and Surgery.

Other Activities:

- Member of UNICHIM (Italian National Body for Standardization) Working Group: "Rapid Methods in Microbiology".
- Member of UNICHIM (Italian National Body for Standardization) Working Group: "Quality in the Microbiology Laboratories".
- Member of the Working Group "ESCMID Study Group for Staphylococci and Staphylococcal Diseases - ESGS" of the European Society of Clinical Microbiology and Infectious Diseases.

Membership to Scientific Societies:

- Member of the European Society of Clinical Microbiology and Infectious Diseases (ESCMID).
- Member of the American Society of Microbiology (ASM)
- Member of the European Research Organization on Genital Infections and Neoplasia (EUROGIN)
- Member of the International Papilloma Virus Society (IPVS)

Previous Institutional Activities:

- Coordinator of Students' International Mobility for the School of Medicine and Surgery, from 2001 to 2016
- Member of the Committee "Patents and Spin off" of the University of Milano-Bicocca, from 2006 to 2013

PRESENT TEACHING ACTIVITIES:

- Head Lecturer for the Course of "Microbiology" for the Degree in Medicine and Surgery;
- Head Lecturer for the Course of "Microbial Biotechnologies" for the Degree in Medical Biotechnologies;
- Lecturer for the following post-graduate Clinical Specialization Schools: Clinical Biochemistry, Anatomic Pathology, Obstetrics and Gynaecology, Orthopaedics, Respiratory Medicine, Public Health and Hygiene, Occupational Medicine and Nephrology;
- Lecturer for the PhD Programme in Neurosciences of the University of Milano-Bicocca;
- Lecturer for the PhD Programme in Biomedical Sciences of the University of Sassari;
- Responsible of Residential Courses in Laboratory Microbiology for Medical and Biotechnology students;
- Responsible for the Internship in Clinical Microbiology for the Degree in Medicine and Surgery;
- Responsible for the Internship in Clinical Microbiology Diagnostics for the Degree in Medical Biotechnologies;
- Guidance for the final degree thesis in Clinical Microbiology to students attending all Degree Courses of the School of Medicine and Surgery of the University of Milano-Bicocca.

PRESENT RESEARCH ACTIVITIES:

- **Studies on the natural history of infections caused by oncogenic Human Papilloma Virus, development of new diagnostic clinical biomarkers as well as on the evaluation of cellular-mediated and humoral immune responses as indicators of progression and/or regression of cervical dysplasia.** Research activities carried out in collaboration with the Clinical Unit of Gynaecology, University of Milano-Bicocca; the Obstetric and Gynaecology Clinic of San Gerardo Hospital Monza; Prof. Piana, Department of Biomedical Sciences of the University of Sassari and Dr. Simon Beddows, Virus Reference Laboratory, Public Health England (PHE), Colindale, London.
- **Development and evaluation of the antibacterial activity of new molecules.** Research activities carried out in collaboration with Prof. Giuseppe Musumarra of the University of Catania, Prof. D. Giacomini of the University of Bologna and Prof. Andrea Pace of the University of Palermo.
- **Epidemiological studies on infections associated with antibiotic-resistant human pathogens and molecular characterization of the associated mechanism of resistance.** Research activities carried out in collaboration with Prof. Piana, Department of Biomedical Sciences, University of Sassari, Prof. C.

Colombo of the Centre for Cystic Fibrosis, Fondazione IRCCS Cà Granda University of Milano and Dr. L. Cariani of the Central Microbiology Laboratory, Fondazione IRCCS Ca' Granda, Ospedale Maggiore Policlinico Milan.

- **Development and Validation of methods for the concentration, molecular detection and characterization of microorganisms present in biological, environmental and food samples.** Research activities carried out in collaboration with Dr. Pastoni of UNICHIM, Prof. Pontello of the University of Milano and Coordinator of ENTER-NET Lombardia ("Enteric Pathogen Network" in collaboration with the "Istituto Superiore di Sanità" and the European Center for Disease Prevention and Control).
- **Qualitative and quantitative analysis of 'resistoma' for the detection of antibiotic resistance genes present in drinking water.** Research activities carried out in collaboration with Prof. Casiraghi of the Department of Biotechnologies and Biosciences of the University of Milano-Bicocca, the "Parco Tecnologico Padano" (PTP) and the Institute of Biomedical Technologies of CNR.

PARTICIPATION TO FINANCED RESEARCH PROJECTS:

- **PRIN 2002**
Principal Investigator of the Research Unit of the University of Milano-Bicocca for the project entitled: **"In vitro antibacterial activity of glicosil-beta lactams"** – Project National Coordinator: Prof. Cainelli of the University of Bologna and in collaboration with Prof. Musumarra of the University of Catania.
- **PRIN 2004**
Principal Investigator of the Research Unit of the University of Milano-Bicocca for the project entitled: **"In vitro antibacterial activity of glicosil-beta lactams"** – Project National Coordinator: Prof. Cainelli of the University of Bologna and in collaboration with Prof. Musumarra of the University of Catania.
- **Grant: Fondazione Cariplo 2006.0740/10.6492: Bando Ricerca Medica di Base.**
Principal investigator of the research project entitled: **"Novel biomarkers for the prevention of cervical carcinoma"**
- **Research project financed by the national Ministry of Education FIRB - "Futuro in Ricerca 2009"**
Member of the University of Milano-Bicocca's Research Group for the project entitled: **"Heterocyclic systems in the molecular design of potential antibacterial compounds"**. National Project Coordinator: Prof. A. Pace of the University of Palermo; Principal Investigator of the Research Unit of the University of Milano-Bicocca: Dr. R. Musumeci.
- **Grant: Fondazione per la Ricerca sulla Fibrosi Cistica (FFC#11/2011)**
Principal Investigator and National Coordinator of the research project entitled: **"Design, synthesis, in vitro biological evaluation and anti-biofilm activity of new beta-lactam and linezolid-like compounds as potential antibacterial"** in collaboration with Prof. D. Giacomini of the University of Bologna, Prof. C. Colombo of the Regional Centre of Cystic Fibrosis, Fondazione IRCCS Cà Granda University of Milano and Dr. L. Cariani of the Central Microbiology Laboratory, Fondazione IRCCS Ca' Granda, Ospedale Maggiore Policlinico Milan.
- **Applied Research Project 2011 (ID. 73-ARA)** - co-financed by the Lombardy Region, the University of Milano-Bicocca and Life Technologies.
Principal Investigator of the research project: **"Development and validation of methods for concentrating and molecular detection of enteric viruses by Real-Time PCR starting from biological environmental and food samples"**.

- **Grant Fondazione per la Ricerca sulla Fibrosi Cistica (FFC#9/2013)**
Principal Investigator and National Coordinator of the research project entitled “Drug development of new beta-lactam and linezolid-like compounds active against *Staphylococcus aureus* isolated from cystic fibrosis patients: *in vitro* and *in vivo* biological evaluation” in collaboration with Prof. D. Giacomini of the University of Bologna, Prof. C. Colombo of the Regional Centre of Cystic Fibrosis, Fondazione IRCCS Cà Granda University of Milano and Dr. L. Cariani of the Central Microbiology Laboratory, Fondazione IRCCS Ca’ Granda, Ospedale Maggiore Policlinico Milano.
- **Grant Fondazione Cariplo 2015-NAZ-0067/b**
Member of the University of Milano-Bicocca’s Research Group, coordinated by Prof. M. Casiraghi, for the project entitled: “Xenogenetics of drinking water: Microbiome and Resistome analyses for the improvement of water safety assessment tools (XenoMicroResist)” and Principal Investigator of WorkPackage 3: “Quantitative and qualitative analysis of resistome - Dynamics of antibiotic resistance genes” in collaboration with the “Parco Tecnologico Padano” (PTP) and the Institute of Biomedical Technologies of CNR.

PREVIOUS WORKING EXPERIENCES:

- 1999-2001** **University Researcher in Microbiology and Clinical Microbiology**, University of Milano-Bicocca
Scientific Sector Code: MED/07
- Research activities**
Research activities during this time were mainly aimed at the studies on the:
- Evaluation of the activity of antibacterial agents;
 - Prevalence of antibiotic-resistance in human respiratory bacterial pathogens;
 - Genotypic characterization of emerging multiple antibiotic-resistant bacterial pathogens.
- Teaching activities**
The main teaching activities during this period were the following:
- Lecturer for courses for the teaching of Microbiology and Clinical Microbiology for Degree Courses in Medicine and Surgery, Dental Medicine and for all Health Professionals Degree Courses of the Faculty of Medicine, University of Milano-Bicocca;
 - Lecturer for postgraduate students attending several Clinical Specialization Schools at the University of Milano-Bicocca;
 - Guidance for the final degree thesis to students attending Degree Courses at the Faculty of Medicine and Surgery, University of Milano-Bicocca;
 - Member of the Examining Board for Exams in Microbiology for students attending Degree Courses at the Faculty of Medicine and Surgery, University of Milano-Bicocca.
- 1992-1999** **University Researcher in Microbiology and Clinical Microbiology**, University of Milano-Bicocca
(Confirmed in the role of University Researcher in 1995)
Scientific Sector Code: MED/07
- Research activities**
Research activities during this time were mainly aimed at the studies on the:
- Evaluation of the “in vitro” and “in vivo” activities and pharmacokinetic characteristics of new antibacterial agents;
 - Studies on the effect of antibiotics and other agents on the immunological function;
 - Epidemiological studies for the monitoring of antibiotic-resistance of respiratory bacterial pathogens;
 - Genotypic characterization of emerging multiple antibiotic-resistant bacterial pathogens.
- Teaching activities**
The main teaching activities during this period were the following:

- Academic Year 1994-95: “Micolgy”, to third year students of the University Diploma for Biomedical Laboratory Technician;
- Academic Year 1996-97: “Microbiology”, to second year medical students, Faculty of Medicine and Surgery, University of Milano (D.R. n. 7086 dated 22.1.1997);
- Academic Year 1997-98: “Medical Micolgy” to medical students, Faculty of Medicine and Surgery, University of Milano (D.R. n. 9066 dated 9.3.1998);
- Academic Year 1998-99: “Medical Microbiology” to medical students, Faculty of Medicine and Surgery, University of Milano (D.R. n. 10480 del 28.9.1999);
- Laboratory Practical Sessions in Microbiology for the Degree Course in Medicine and Surgery and for the Diploma for Biomedical Laboratory Technicians;
- Lectures and Seminars for postgraduate students attending the Specialization Training in Microbiology and Virology at the University of Milano;
- Guidance for the final degree thesis to students attending Degree Courses at the Faculty of Medicine and Surgery, University of Milano;
- Member of the Examining Board for the Course of Microbiology for students attending Degree Courses at the Faculty of Medicine and Surgery, University of Milano.

- 1997** Six months research activities carried out at the “Laboratory of Microbiology and Infectious Diseases”, Rockefeller University under the supervision of Prof. Alexander Tomasz for the molecular characterization of antibiotic-resistant clinical isolates of *Streptococcus pneumoniae* and *Staphylococcus aureus*.
- 1990** Four months research activities carried out at the “Rickettsial Laboratory” of the Center for Disease Control and Prevention (CDC) of Atlanta under the supervision of Dr. R. Regnery for the genotypic characterization of clinical strains of *Rickettsia conorii* isolated in Sicily.
- 1990-1992** Research Fellow
Clinical Research Fellow in Clinical Microbiology under the supervision of Prof. J.D. Williams, Medical Microbiology Department, The Royal London Hospital Medical College, University of London.
- 1988-1989** Senior House Officer
Infectious Diseases Unit, St. Ann’s Hospital, National Health Service, London
- 1987-1988** House Surgeon (6 months)
Orthopaedics/General Surgery
St. Andrews Hospital/Newham General Hospital
- House Physician (6 months)
Infectious Diseases Unit,
Rush Green Hospital, National Health Service, Romford, Essex