

Dr. Karl M. Hellemann, M.Sc., M.D.

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Curriculum Vitae

Personal Data

Name	Karl M. Hellemann
Date of birth	27.10.1950 in Graz
Nationality	Austria
Degrees	M.D.; M.Sc. Expert for Hygiene and Microbiology, sworn to the court
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Professional Qualifications

1970-1976	Medicine – degree M.D. - Karl Franzens University Graz
1973-1976	Psychology – Karl Franzens University Graz
1982-1984	EDV Analytic / Organisation – Technical University Graz
1990-1995	Postgrad. Hospital Management – University of Economics Vienna
1994	Postgraduate Studies in Public Health - Erasmus University, Rotterdam, NL
1997-1999	Molecular-Genetic-Epidemiology – Degree M.Sc. - University of Pavia, IT

Professional Experience

1977-1980	Vocational training for General Practice General Hospitals, Graz and Wagna Neurology Hospital, Graz General Hospital, Stolzalpe
1979	Diploma of the Public Health Exam, Government of Styria
1980-1985	Specialisation in clin. Chem. Analytic and Diagnostic Fed. Institute for Control of Infectious Diseases (15.11.1985)
1985-1989	Specialisation in Hygiene and Microbiology Fed. Institute for Control of Infectious Diseases (05.02.1989)
2002	Ärztlicher Leiter der HYGIENICUM GmbH (GBA Group De)

Postgraduate Supplementary Qualifications & Diplomas

1981-1982	Cardiology / Haematology, University of Innsbruck
1983	Virology, University of Munich, WHO/Ref.-Lab., DE
1984	Mycology, University of Fribourg, FR
1985	Microbiology, Institute Pasteur Paris, FR
1989	Diploma of Occupational Medicine, Academy of Occupational Medicine
1991	Diploma of Environmental Medicine, Austria Medical Association, VIE

Professional Experiences – Consultancies

Beside multiple lecturer and consultancy activities in different countries (e.g. USA, Brazil, Ghana, Vietnam, Ukrain, Thailand, ZA a.o.), the following examples are highlighted:

since 1980	Group Office Family Medicine
1980-1985	Analytic concept for a medical database system in Graz
1987-1988	Consultant in management, strategy, -concept, -organisation & -controlling for a private hospital company (St. Leonhard Sanatoriums GmbH), Graz
1988-1997	Chief Executive Officer of St. Leonhard Sanatoriums GmbH
1990-1997	Head of the Hygiene Department in the Federal Governmental Food Control
1991-2001	Member of Austrian Codex Commission and government consulting expert committees
1992-1995	Follow-up study in cooperation with the government of Styria – Dept. of Environmental Control
since 1994	Consultant for the Academy of General Practitioners in Austria on bio-monitoring
since 1995	Member of the Aqua Expert Team
since 1996	Expert for Hygiene and Microbiology, sworn to the court
since 1997	Member of the ARGE Medicine Sociology / Social Epidemiology Karl Franzens University Graz
1997-1999	Medical CEO of the International Medical Training & Education Center, Red Cross, VIE
1997-2000	Member of the Environmental Protection Steering Committee of the ICA (USA)
since 1998	Member of the expert commission for the Ministry of Environment, Youth and Family
since 1999	Member of the permanent scientific board of the Ministry of Economy and Ministry of Environment for industrial, mining and environmental disaster
2001	Strategic Consultancy – Human Cell Proliferation QM regulation of pharmaceutical production
2003	Stem Cell Production Line – member of the planning team
2004-2009	Pharmaceutical Plant: Hygiene & QM of a tissue engineering production line and blood banking
2004	Medical social study: Living conditions and health in Cuba
2005	Evaluation of the Medical Services WHO /TUFH Program Sri Lanka
2008	Member of ÖPZ (Austrian Board of Cell Therapy – Österreichische Plattform für Zelltherapie)
2009-2010	Founding Member of the ÖRRG (Austrian Clean Room Society)

Projects applied Research Programs

1981	Research & Development program on in vitro test system for cephalosporines
since 1981	Research work in clinical, applied and environmental microbiology
1982-1987	Research & Development programs on different HACCP concepts (test methods, production technologies for the pharmaceutical and food production industry)
1987-1988	International project: Biological denitrification of drinking water (Lamayer International)
1989-1990	Head of a microbiological drug research project (CL-Pharm, Nykomed)
1991-1993	Development of microbiological technologies for Gen.-probes (Amoco Boston)
1992-1993	Diff. Gov. Project: Infection disease and water supply in Burgenland & Styria
1993	Research project: Focus Campylobacter – Egg production and infected livestock
1994-1996	Research program: ARGE Occupational medicine
since 1996	Int. Research Project: Bioavailability and toxicology of metals in water
1996-1997	Project: Microbiological waste treatment, compost systems
1997-1999	Project: Microbiological waste treatment, biogas systems
1997-2000	Project: Occupational medicine, rehabilitation & reintegration to work after heart attacks Microbiological influence on cooling fluids used in the metal processing industry
1998-1999	Development of teaching and training concepts for industry staff: subjects Hygiene, Microbiology and Antibiotics
1998	Waste treatment and Environment Pollution – a training project for Hoval Brazil
1999	Project industrial Microbiology: Investigation of shock cooling liquids and biofilms
1999	Project Ukraine: Consultancy Reorganisation and Strategic Conception for the Univ. Clinics Odessa (Medical Economy)
1999-2000	Project SEA: Evaluation of medical services in Vietnam
2000	Project: Concept of a multilingual information system for experts in food control & food testing
04. - 12.2001	Project: Development of a QM Concept for liquids used in heat shock treatment technologies
06.2001-02.2003	Project: Development of new concepts for heat shock treatment
2001	Project: Teaching & Training Concept for Food Processing / Delivering ZA Durban / Mozambique
2001	Project: Drinking Water District Ohuket Regional Health Office; Sonkhla University Haday
2001-2004	Development – Implementing a MB-production monitoring in pharmaceutical cell production umbilical and bone marrow stem cells
2002-2003	Project: Testprotocol Fungi and Destruction of Antiques Heritage Protection Collaboration with the Universities Roma / Ravenna / Bologna
2003-2004	Project: Viral Detection in Surface Water – Control Parameter of Importance for Public Health Purposes Development of a PCR-based Detection Routine Method

2003-2006	H2O2 Sterilisation processes (Development of new application methods and processes on collaboration with Ortner Group Cleanroom Department; aims: cheaper-less energy-less toxicity-high efficiency- sterility available in the field)
2004	Project: Slovenia: Evaluation and restructuring of public food control laboratories
2005	Project: University Blood Banking–Member of the conceptual planning group
2008	Development of Surface Sterilisation – Nano technology and toxicology-cooperation project: Braincon GmbH / Hosan GmbH / Hygienicum GmbH
2008-2010	EUWADEG – European Waste Degradation: multinational research project in genetically preserved degradation capacities of high acidic halogenic industrial hot in process or end process waste
2010-2015	Editorial Board of OSCARs – Science & Food Production Chain; Consumer protection
2011-2013	Hygiene & processes in dental techn. equipment (AGES Pharmed A/EMEA)
2012	Toxicological investigation – sediments in heating processes (Philips AG)
2012-2015	Long term concepts in food production line – techn. processes – toxicology (u.n. Chemgeneering GmbH USA/Switzerland)
2015	Membrane electrolysis and drinking water – basic MB research
2017	VAS Industrial Hygiene–environmental protection project–VAS steel industry
2017-2019	Desaster Management Drinking Water Supply Net – AA University, Carinthia
2019-2020	VAS Industry – Process technology & safety measurements

Key Note Speeches

1987	AGM Congress
1994	Wonca World Assembly – Section Environment
1994	BmfWA – Symposium – Montan-University Leoben Key Note: Microparticle and Breath
1998	South America - Meeting of Communities Opening Lecture: waste – BioRisk estimation in tropical areas
2001	Wonca – World Congress Food transmitted diseases
2004	EU Innovationsforum – Electronic Industry Key Note: Nano meets Medicine – www.sterility.at
2006	Ministry for Economy – Life Sciences Key Note: Particulate Matter a Challenge in Molecular Medicine Speech: Austrian and Slovenian Mining Industry Key Note: COPD – Safety Working Conditions
2007	Int. Congress Wieselburg – Bioenergy and Composting Speech: BIOGAS-Recycling-Economy Bio Indicator - safe running is safe environment
2011	Environment & Health–Water–EU Requirements; WELAAK–LR Stmk./NÖ/ Bgl.
2012	Biohazards – Fertilizer, Herbicides, Groundwater Resource, u.p. LR Stmk.
2012	Biofilm- Med.techn.Services- Hazard Evaluation; u.p. AGES-Pharmed
2012	Communities – Risk Assessment of Water supply systems; u.p. Verband Österreichischer Wasserversorger
2012	Desaster Management & Risk Evaluation Precautionary principles in food preprocessing; u.p. WELAAK

2019 DCX Bio-Decontamination Nano Tech Procedure – BOA Congress Quindao

Teaching

1991-1996 Hygiene and Microbiology at the DKS (College of Qualified Nursing) Graz
1991-2000 Lecturer in Hygiene and Environmental / Social Medicine
Karl Franzens University Graz
since 2008 Lecturer in AGM at the Medical University Graz (MUG)
since 2011 WELAAK (Wechselland Akademie) – In the Field: Hygiene and Toxicology
since 2011 Hygiene and Microbiology at the MUG and DGKS (College of Qualified
Nursing) Graz

Honorary Functions

1989-1994 Expert on environmental medicine for the chamber of MD's Styria
1990-2005 Consultant for the government of Styria
Department ground water protection and drinking water
1991-2001 Member of Austrian Codex Commission and government consulting expert
committees; Groups: Drinking Water, Bottled Water and Mineral Water
1994-1995 Expert on environmental medicine for the chamber of MD's Austria
2003-2004 Università Bologna (Sede Ravenna):
Member of the Scientific Editorial Board: Quaderni di Scienza della
Conservazione
2003-2005 Expert in the ÖNORM – Austrian Standard Institute (ASI) and Organisation –
waste-water and bio-waste treatment – methodology and control
2006-2007 Chamber of MD's Styria – Referent Emergency Medicine
2009-2010 Gründungsmitglied und AG Leitung in der Österr. Reinraumgesellschaft
2011-2015 Senior Expert Member / ASI (Austrian Standard Institute)- BioWaste Hazards