



LABORATORY OF CLINICAL MICROBIOLOGY,
VIROLOGY AND BIOEMERGENCIES

Laboratory Biosafety Training Course

12-16 March, 2018, Milan (Italy)





LABORATORY OF CLINICAL MICROBIOLOGY,
VIROLOGY AND BIOEMERGENCIES

Who we are

CLIMVIB is a center of excellence in biomedical research with laboratories equipped with advanced technology platforms. The Laboratory can count on BSL3 and BSL4 facilities and it is a national reference structure for emergencies in case of pandemics and bioterrorism.

Today the laboratory, thanks to the work of its team of 10 Doctors, 14 Technicians and 6 Researchers, has become a platform to discuss about new tools, new trends and new implementation opportunities on biosafety and biosecurity. The Institution continues to strive for improvements in harmonization and raising levels of biosafety and biosecurity standards and it is committed to producing accurate analysis and strategic programs on the subject. The institute's commitment to research can be appreciated by the scientific value and number of publications.

Contact Us

Luigi Sacco University Hospital is located in the northwest area of Milan, just six miles from the city center. The hospital is located near the motorway exits of A4 (Turin - Venice) and A8 (Milan - Lakes) near Certosa.

Via GB Grassi 74
20157, Milan, ITALY

Phone: +39 0250319831/19871

Email: info@climvib.eu

Web: www.climvib.eu



LABORATORY OF CLINICAL MICROBIOLOGY,
VIROLOGY AND BIOEMERGENCIES

Scientific Director

Prof. Maria Rita Gismondo

Head of Clinical Microbiology, Virology and Bioemergencies
L. Sacco University Hospital

Scientific Secretariat

Giovanna Fotia

Mirko Palestrino

Alessandro Mancon

Davide Mileto

Cristina Pagani

Alessandro Palazzin

Francesca Romeri

Organizing Secretariat

Aros Viaggi S.r.l.

Via Sem Benelli, 11 - 20151 MILANO - IT
Tel. +39 02 3340 4550 - Fax +39 02 3349 4539

E-mail: giovanni@arosviaggi.com

Mirko Palestrino

Jole Sangermano



LABORATORY OF CLINICAL MICROBIOLOGY,
VIROLOGY AND BIOEMERGENCIES

Monday 12th March

Morning

- 09:00-09:30 Registration and welcome session
Maria Rita Gismondo - Head of Clinical Microbiology, Virology and Bioemergencies, L. Sacco University Hospital
- 09:30-11:00 Laboratory Biosafety
Martien Broekhuijsen - Independent Consultant: CBRN Subject Matter Expert and Biosafety Professional
- 11:00-11:15 *Break*
- 11:15-12:30 Laboratory Biosecurity and Dual Use of Biological Materials
Gijsbert van Willigen - Senior advisor CBRN Safety & Security, Leiden University Medical Center
- 12:30-13:30 *Lunch*

Afternoon

- 13:30-14:30 Challenges for Biosafety and Biosecurity in the Changing Field of Biotechnology
Gijsbert van Willigen - Senior advisor CBRN Safety & Security, Leiden University Medical Center
- 14:30-15:30 Laboratory Biorisk Management (1)
Martien Broekhuijsen - Independent Consultant: CBRN Subject Matter Expert and Biosafety Professional
- 15:30-15:45 *Break*
- 15:45-17:00 Laboratory Biorisk Management (2)
Martien Broekhuijsen - Independent Consultant: CBRN Subject Matter Expert and Biosafety Professional



LABORATORY OF CLINICAL MICROBIOLOGY,
VIROLOGY AND BIOEMERGENCIES

Tuesday 13th March

Morning

- 9:00-10:00 Primary Barriers: Personal Protective Equipment and Laboratory Equipment
Martien Broekhuijsen - Independent Consultant: CBRN Subject Matter Expert and Biosafety Professional
- 10:00-11:00 Secondary Barriers: Facility design and construction
Gijsbert van Willigen - Senior advisor CBRN Safety & Security, Leiden University Medical Center
- 11:00-11:15 *Break*
- 11:15-12:30 Exhibition
- 12:30-13:30 *Lunch*

Afternoon

- 13:30-14:30 Visit to Corelab
- 14:30-15:30 Good Laboratory Practices
Martien Broekhuijsen - Independent Consultant: CBRN Subject Matter Expert and Biosafety Professional
- 15:30-15:45 *Break*
- 15:45-17:00 Disinfection, Sterilization and Decontamination
Gijsbert van Willigen - Senior advisor CBRN Safety & Security, Leiden University Medical Center



LABORATORY OF CLINICAL MICROBIOLOGY,
VIROLOGY AND BIOEMERGENCIES

Wednesday 14th March

Morning

- 9:00-10:00 Biohazardous Waste Management
Gijsbert van Willigen - Senior advisor CBRN Safety & Security, Leiden University Medical Center
- 10:00-11:00 Practical exercises with fluorescent markers and UV lights
Gijsbert van Willigen - Senior advisor CBRN Safety & Security, Leiden University Medical Center
Martien Broekhuijsen - Independent Consultant: CBRN Subject Matter Expert and Biosafety Professional
- 11:00-11:15 *Break*
- 11:15-11:45 Laboratory Accidents
Davide Mileto – Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital
- 11:45-12:30 Laboratory Acquired infections
Alessandro Mancon - Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital
- 12:30-13:30 *Lunch*

Afternoon

- 13:30-15:00 Exhibition
- 15:00-16:00 Introduction to occupational medicine
Francesca Metruccio, Researcher, International Centre for Pesticides and Health Risks Prevention (ICPS)
- 16:00-17:00 Visit to Infectious Diseases Department - High Biocontainment facilities
Prof. Massimo Galli – Head of Infectious Disease III Division, L. Sacco University Hospital
Davide Mileto - Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital
Alessandro Mancon - Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital



LABORATORY OF CLINICAL MICROBIOLOGY,
VIROLOGY AND BIOEMERGENCIES

Thursday 15th March

Morning

- 9:00-11:00 BSL3 – Agents & Specificities
Alessandro Mancon – Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital
- 11:00-11:15 *Break*
- 11:15-12:30 BSL4 – Agents & Specificities
Davide Mileto – Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital
- 12:30-13:30 *Lunch*

Afternoon

- 13:30-16:00 IFBA EXAMINATION (International Federation of Biosafety Associations)
- 16:00-17:00 Practical Session – BSL2¹
Alessandro Palazzin - Microbiology and Virology Resident, L. Sacco University Hospital
Francesca Romeri - Microbiology and Virology Resident, L. Sacco University Hospital

¹ Practical exercise in BSL-2, 3 and 4 are the core activities of this hands-on Laboratory Biosafety Training course. In practical sessions, indeed, participants will be involved in laboratory practical activities. In particular, as concerns BSL-2 activities will be focusing on laboratories workflow organization and fundamental microbiological techniques.



LABORATORY OF CLINICAL MICROBIOLOGY,
VIROLOGY AND BIOEMERGENCIES

Friday 16th March

Morning

9:00-12:30 Practical Session – BSL3-4²
 Davide Mileto – Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital
 Alessandro Mancon – Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital

12:30-13:30 *Lunch*

Afternoon

13:30-16:30 Practical Session – BSL3-4³
 Davide Mileto – Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital
 Alessandro Mancon – Researcher, Microbiology and Virology Specialist, L. Sacco University Hospital

16:30-17:00 Certificate of Attendance

² Practical exercise in BSL-2, 3 and 4 are the core activities of this hands-on Laboratory Biosafety Training course. In practical sessions, indeed, participants will be involved in laboratory practical activities. In particular, as concerns BSL-3 and BSL-4, our experts will give participants the chance of experiencing PPE donning and doffing procedures, work in the labs while wearing PPE, but they will also show them, and involve them in, the use of class 3 biological safety cabinet. Activities related to the decontamination of instruments, goods and waste are also envisaged.

³ See footnote n°2