

Tuesday MARCH 19

10h – 12h00

Inaugural keynotes

14h – 15h30: Medical Countermeasures C (Frédéric Dorandeu & Greg Dal Bo) Auditorium Cassin

Oral presentations

MCMC-1. **Keynote:** New therapeutic strategies to improve neuroprotection after nerve agent exposure. Grégory Dalbo

MCMC-2. Improved Nerve Agent Treatment System Early Development Pipeline (INATS EDP): Utilizing in silico, in vitro, ex vivo, and in vivo assays in human-relevant systems to evaluate proposed reactivator drug candidates as OPNA countermeasures. C. Linn Cadieux

MCMC-3. Using precision-cut lung slices to evaluate cellular responses and treatment strategies after nerve agent exposure. Elisabeth Wigenstam

MCMC-4. An in vivo preclinical screening platform to repurpose drugs as medical countermeasures for reversing opioid-induced respiratory depression. Nellie Byun

MCMC-5. Breathomic Analysis of Chlorine-Exposed Mice Unveils Potential Biomarkers. Lina Mören

Flash presentations

MCMC-6. Use of microRNA as new therapeutic approach to treat Sulfur Mustard-induced ocular injuries. Fanny Caffin

MCMC-7. Brain [18F] FDG PET imaging predicts the long-term behavioral impact of sublethal exposure to organophosphates: a longitudinal study in mice exposed to NIMP, a sarin surrogate. Amélie Soyer

MCMC-8. Development of therapeutic and diagnostic strategies targeting the neurovascular unit following exposure to organophosphorus nerve agents. Mélanie Lagadec

MCMC-9. SkinKast: A Multi-Modal Dermal Disclosure Spray for the Rapid Detection of Chemical Warfare Agents on Intact Skin. Nicholas Pappas

Posters

Capitalizing on human BChE-ligand complex structures for the design of BChE-specific reactivator against nerve agent intoxication. Xavier Brazzolotto

Development of murine models exposed to a sub-lethal dose of soman: behavioral, electrophysiological and enzymatic early characterization. Rosalie Bel

Neuroprotective effects of a new countermeasure including two oximes against VX-challenge in mice. Alexandre Champault

Development of a new therapeutic protocol to prevent cerebral sequelae induced by

organophosphate nerve agents: a blood-brain barrier controlled-opening to improve oxime crossing. Lucie Lepinard

Characterization of microbiota and endocrine alterations induced by exposure to a sub-lethal dose of an organophosphorus neurotoxic agent. Assia Belkebir

Systematic evaluation of decontamination processes of the highly toxic nerve agent VX. Amelie Schwab

Development of a cellular model of organophosphate neurotoxic poisoning using cardiomyocytes derived from induced pluripotent stem cells. Nicolas Doisne

Identification of mechanisms involved in the respiratory depression induced by VX poisoning in mice. Marilène Trancart

Development of a swine model of combined hemorrhage and nerve agent exposure. Nina Jaffré

How does sublethal VX exposure affect respiratory physiology in mice? Anne-Sophie Hanak

Design, synthesis, and in vitro assessment of uncharged reactivators for human acetylcholinesterase and butyrylcholinesterase inhibited by nerve agents. José Dias

Developing an Assay to Further Elucidate the Interactions of Chemical Warfare Agents and Reactivators with Acetylcholinesterase. Cynthia Van Acker

Development of a Multi Agent Screening Assay for Novel Reactivators of Organophosphorus-Inhibited Human Acetylcholinesterase. Vanessa Dunn

Improving telemetric device implantation to study EEG modifications induced by exposure to a sub-lethal dose of an organophosphorus neurotoxic agent at long term. Julie Knoertzer

Screening for fentanyl metabolites in urine: evaluation of the "One Step Fentanyl test strip" rapid tests. Carine Hejl

Encapsulation of charged oxime reactivators leads to their enhanced bioavailability in CNS. Kamil Musilek

Can A-232 et A-234 nerve agents undergo aging upon inhibition of human butyrylcholinesterase? A proteomic LC-HRMS (MS) study. Fabrice Modeste

Comparison of neurotoxic organophosphorous compounds through in vitro determination of the biochemical half maximal inhibitory concentration. Manon Verger

Preliminary results to the determination of dermal toxicological reference values for a neurotoxic organophosphorous agent. Jennifer Millerioux

Predicting the severity of eye damage induced in rabbits after sulfur mustard vapor exposure. Fanny Gros-Désormeaux

Design and development of formulations by nanoencapsulation of antidotes, against intoxications by chemical warfare agents. Léa Thiberville

Unveiling the True Reactivation Potential of Oximes: A Comparative Study Using Immobilized and Free Human Cholinesterases. Rudolf Andrys

An integrated strategy for identification of sulfur mustard modification sites on human serum albumin, screening biomarkers and quantitative detection for exposure retrospection. Bo Chen

Validation of a SFC-MS/MS method for the quantification of VX in plasma and application to a toxicokinetics model. Nicolas Taudon

New 3-hydroxy-2-pyridinaldoxime reactivators of hAChE inhibited with organophosphorus nerve agents. Camille Voros

In vitro and in vivo data on agent A-234. Kamil Kuca

Tuesday MARCH 19

16h15 – 17h45: Detection C (Fabiana Arduini & Jean-Maxime Roux) Auditorium Cassin

Oral presentations

DETC-1. Gas Ion Distillation and Sequential Ion Processing Technologies for Identification and Visualization of chemicals in Airborne Vapours (GIDPROvis). Hanna Hakulinen

DETC-2. Advances on toxic chemical detection on surfaces with a multi-aperture Fourier-Transform hyperspectral Raman imager. Jean-Charles Baritoux

DETC-3. Fluorimetric detection of Sarin (GB) and some simulants in the gas phase using supported organic probes. Valentin Bureau

DETC-4. Detection of Chemical Warfare Agents using High Kinetic Energy Ion Mobility Spectrometry (HiKE-IMS). Max Mörtel

DETC-5. Multi-sensors array and Classification techniques for the development of SMART box chemical detection. Pasquale Gaudio

Flash presentations

DETC-6. Standoff Detection of Spontaneous Raman Scattering from Chlorine Gas in the Deep Ultraviolet. Frank Duschek

DETC-7. Development of integrated automation technology for sample preparation and analysis for on-site verification of chemical warfare agent simulant - Jin-Woo Jeon

DETC-8. Development of an analytical method by Liquid Chromatography-High Resolution Mass Spectrometry for the analysis of saxitoxin and related Paralytic Shellfish Poisoning Toxins. Salomé Chaumier

DETC-9. The Aero - A new capability to rapidly detect aerosolized threats in the field. Matthew Aernecke

Posters

Research progress on Unmanned Aerial Vehicles for chemical warfare agents simulant and toxic gas detection. Liu Yang

Development of an original micro-machined fluidic circuit board for a compact CWA detection system based on MEMS components. Florence Ricoul

Development of an inhalation tower test method for rodent exposure to aerosols. Léo Macé

Microfluidic biosensor for the continuous enzymatic detection of organophosphorus compounds. Julie Lachaux

Gas sensing with a novel micro-thermal conductivity detector. Alexandre Teulle

Extraction and derivatization of arsenic trichloride and arsenous acid in water and soil samples for gas chromatography coupled with mass spectrometry analysis. Mariana Mikic

Development and validation of a method for sampling and analysing lewisite 1 vapours by thermal desorption- gas-chromatography - mass spectrometry (TD-GC-MS). Yannick Juillet

Test and evaluation standards for field chemical detection and identification equipment at DGA CBRN Defense. Noel Berenger

3D-printed carbon black/thermoplastic polyurethane electrochemical biosensor as a low-cost and portable tool for nerve agents detection in drinking water. Ludovica Gullo

Using GC-FID for vapour pressure determination of low volatile compounds. Linda Öberg
Machine Learning Techniques to Improve Chemical Identification in mixtures by FTIR and RAMAN Analysis. Vesna Simic

Remote terahertz system for detection of concealed illicit objects. Hasnaa El Ouazzani

Towards a laser-IMS tool for the real-time detection of adsorbed compounds. Marie Geleoc

Enhancing Environmental Monitoring: affordable Gas Sensor Array and Machine Learning for comprehensive chemical dispersion detection and classification. Luca Martellucci

Investigating the Effectiveness of Deconvolutional Neural Networks (DCNN) in Reconstructing Chemical Dispersion Maps from Sensor Networks: Initial Exploratory Research. Alessandro Puleio

Tuesday MARCH 19

16h15 – 17h45: Epidemiology & public health (Alexandra Mailles & Emmanuelle Billon-Denis) Londres room

Oral presentations

EPI-1. **Keynote** The lessons from the 2022 Mpox epidemic: a subdued replica of the smallpox Sword of Damocles. Jean-Nicolas Tournier

EPI-2. Bioinformatics for pathogen detection and identification: exploratory study of a *B. pseudomallei* clinical case. Ombeline Lamer

EPI-3. Synthetic cannabinoid receptor agonists used in the composition of "La Chimique" consumed in Mayotte: current overview and one-year assessment with the analytical results of the CHASSE-MAREE protocol. Jean-Michel Gaulier

EPI-4. CBRN laboratory analysis – What is the technician exposure risk? Henry Keijzer

Flash presentations

EPI-5. Cutaneous anthrax, but not Bacillus anthracis. Gorgé Olivier

EPI-6. Methods and tools for biological risk assessment of naval vessels. Clara Inghels

Wednesday MARCH 20

9h00 – 10h30: Protection (François Boussu & Gilles Richner) Auditorium Cassin

Oral presentations

P1. **Keynote:** from the laboratory to the field. Gilles Richner

P2. Facile synthesis of Zr-MOF/polyester composites for the degradation of nerve agents. Pauline Hardy

P4. Development of a real-time aerosolized fluorescein sensor. Jacob Fry

P5. Real-time evaluation of whole-body protective ensembles against chemicals. Hazem Matar

Flash presentations

P6. Use of a Novel Animated Mannequin Test System to Assess the Protective Effect of Firefighter Undergarments against Smoke Particles. Devanya Mahalinga

P7. Dual-Functional MOFs: Efficient Adsorption and Degradation of Nerve Agents and Pesticides for Protective Applications. Laura Rozing

P8. Transcriptional landscape of green nanocoating with antimicrobial actions. Rossella Brandi

P9. Organic vapor residual removal capacity of activated carbon respirator filters firstly exposed to an inorganic gas and vice-versa. Benoit Augustyns

P10. Saturation detection of filter cartridge. Rodrigue Rousier

Posters

Organic vapor residual removal capacity of activated carbon respirator filters firstly exposed to an inorganic gas and vice-versa. Leticia Fernandez Velasco

Assessing CWA performances of CBRN protective ensembles and equipments at DGA CBRN Defence. Anthony Caniglia

Development of a new-CWA vapor quantitative test bench for CBRN equipment swatches. Valérie

Moisant

Hyaluronic Acid Nanoparticle Effects in Radiobiology. Zuzana ěinkorová

Wednesday MARCH 20

9h00 – 10h30: Education and training, Human factor (Olga Vybornova & Laura Petersen)
Londres room

Oral presentations

THF-1. **Keynote:** A critical evaluation of the risk indicators of criminal conduct involving CBRN and explosive materials. Behavioural and observational analysis in crime detection and investigation. Marian Kolencik

THF-2. Improving railway security through awareness and training on CBRN threats: IMPRESS EU co-funded project. Laura Petersen

THF-3. Project PROACTIVE: Exploitable results for CBRNE practitioners. Grigore Havarneanu

THF-4. Interest of using Standardized Operating Procedures to train biological incident first responders. Mounir Hagui

THF-5. Maritime nuclear emergency management tabletop exercises and collaboration complexity in the Arctic. Natalia Andreassen

Flash presentations

THF-6. Collaborative CBRNe event analysis to speed up situation understanding, enhance countermeasures and lower uncertainties. Thibault Derode

THF-7. DEFERM - Parallel qPCR-detection, no-touch disinfection and transborder cooperation. Katrin Wieden

Wednesday MARCH 20

11h15 – 12h45: Decontamination (Rob Chilcott & Tom Hofmann) Auditorium Cassin

Oral presentations

DEC-1. Keynote: The body janitors – history and future developments in decontamination research. Rob Chilcott

DEC-2. Scientific study of the decontamination of porous and absorbent materials using laboratory experiments and modelling surface decon. Julien R Landel

DEC-3. Assessment of different Zirconium Hydroxide based Products for the Decontamination of Skin against Chemical Warfare Agent Simulants. Andreia Pinhal

DEC-4. Efficacy of Ca-DTPA products for the decontamination of actinide-exposed injured skin or deep wounds in rats. Van der Meeren Anne

DEC-5. Efficacy of RSDL® (Reactive Skin Decontamination Lotion Kit) against Novichok Nerve Agents. Laura Cochrane

Flash presentations

DEC-6. Analysis of VX, cVX and rVX and its degradation products in conjunction with plasma decontamination. Matthias Berger

DEC-7. Development of experimental models for skin and wound decontamination studies. Karine Devilliers

DEC-8. Effective decontamination of ricin by chemical inactivation ricin. Daniel Stern

DEC-9. PERMONK Project: Study of the stability of Monkeypox Virus in various environmental conditions. Dana Coïc

DEC-10: Marine BOIRE Test method for painting systems resistant to chemical agents: NORMDEF0003-2, Essai A.6, Phase 2. Marine Boire

Posters

Wound Decontamination Evaluation Pipeline (WDEP): Decontamination of wounds contaminated with chemical warfare agents. Robert diTargiani

Sporosan®- a novel extremely fast, effective mild and eco-friendly disinfectant. Kathrin Kluge

Development of experimental models for skin and wound decontamination studies. Karine Devilliers

Evaluation of Foam Autonomous Sprayer (PUMA), a ready to use backpack, for the implementation of CBRNE decontamination foams. Fabien Frances

CONFOAM®: Gelified foam to treat both chemical and biological contaminated solid surfaces. Célia Lepeytre

Design and investigation of hybrid sorbents based on the principles of green chemistry for the development of new preventive internal and external decontamination agents of cesium radionuclides. Ingars Reinholds

Ion-exchange resins as versatile tools for the oxidative degradation of chemical and biological hazardous agents. Matteo Guidot

Universal Decontamination Mitt for Immediate Decontamination. Joseph Rossin

Kinetic study by NMR during degradation process of a newly CWC scheduled carbamate . Corentin Jacquemoz

Development of a regenerative process for air treatment using a new rotating cold plasma. Sebastien Donet

Prediction of Reactive Species Generation by Plasma Discharge for Decontamination of Chemical Warfare Agents. Namjun Kim

Preliminary study of chemical warfare agent decontamination by sonication. Pauline E. Galy

Essential Oils as Potential Antimicrobial Agents for Biological Threats: Focus on Thymol-Based Green Disinfectant. Andrea Ciammaruconi

Skin decontamination: an innovative phyllosilicate film-forming formulation against chemical warfare agents. Magaly Misbach

Wednesday MARCH 20

11h15 – 12h45: **Detection E (Didier Poullain & Chrystel Ambard) Londres room**

Oral presentations

DET-EX 1. **Keynote:** NATO DEXTER Programme: the trials in Roma. Valeria Spizzichino, Massimiliano Guarneri, Remi Braque

DET-EX 2. Detection of explosives on shoes using laser spectroscopy in security applications. Köhntopp Anja

DET-EX 3. Understanding the volatility of energetic materials and the odd way to determine them. Andreas Neuer

DET-EX 4. Integrating Cyber Threat Intelligence in Explosive Detection: Case Studies and Prospects. Genny Dimitrakopoulou

Flash presentations

DET-EX 5. STYX - Stand-Off Detection of Hybrid Threats Containing Explosives. Frank Schnürer

DET-EX 6. Remote Detection of explosive traces on car body paints by mid-infrared spectroscopy: Optical modelling. Frederic Sabary

Posters

TInvestigation and characterisation of photonicly initiated TATP and HMTD - Investigation of the critical performance limits in the initiation of graphite-coated TATP and HMTD, accompanied by sensory monitoring using a microphone. Ünal Emre

Device development for rapid identification of energetic materials. Matthias Muhr

Towards an innovative methodology of observation and shock wave tracking in harsh environment. Sophie Trelat

Innovative CBRNE Detection Technologies: Pioneering Approaches by the German Aerospace Center. Kostyantyn Konstantynovski

Remote Detection of explosive traces on car body paints by mid-infrared spectroscopy:
Optical
modelling. Frederic Sabary

Wednesday MARCH 20

14h – 15h30: Medical countermeasures NR (Marco Valente & Patrick Ostheim) Auditorium Cassin

Oral presentations

MCM-NR 1. Keynote Use of different irradiation biomarkers in the context of an NR incident: from diagnostic to prognostic. Marco Valente

MCM-NR 2. Investigation on differentially expressed genes as candidate biomarkers for rapid Triage in radiological/nuclear emergencies. Elisa Regabulto

MCM-NR 3. Gene Expression Measurements in human whole Saliva for Radiation Biodosimetry and Prediction of radiation-induced Health Effects. Patrick Ostheim

MCM-NR 4. Evolution of a muscle injury associated with acute whole-body irradiation in rats. Chloé Cervera

MCM-NR 5. The stromal vascular fraction for the treatment of the radiation induced gastrointestinal syndrome. Christine Linard

Flash presentations

MCM-NR 6. In vitro model contribution to nuclear medical countermeasures improvement: Study of plutonium colloid bioavailability to DTPA. Alexandra Bourgois

MCM-NR 7. Liposomal formulations of bisphosphonate molecules for the treatment of internal strontium/cobalt contamination. Géraldine Landon

MCM-NR 8. microRNA blood signature associated with localized radiation injury severity. Stéphane Flamant

MCM-NR 9. Advances in Cell Therapy: A Paradigm Shift in the Treatment of Radiation-induced hematopoietic Syndrome. Alain Chapel

MCM-NR 10. Gamma-H2AX as the indicator in biodosimetry. Andrejsová Lenka

Posters

Biological dosimetry and the RENE network in case of a radiological or nuclear incident. Martin Bucher

microRNA blood signature associated with localized radiation injury severity. Stéphane Flamant

Plasma miRNA signature for the prognosis of localized radiation injury. Stéphane Flamant

Artificial intelligence for automated chromosomal aberration detection in cytogenetic imaging. Mohamed Amine Benadjaoud

Irradiation biomarkers in a rodent model of total body irradiation. Nicolas Morin

Investigation on differentially expressed genes as candidate biomarkers for rapid Triage in radiological/nuclear emergencies. Elisa Regalbuto

Development of radiation medical countermeasure based on hydroxyethylpiperazine. Ales Tichy

Wednesday MARCH 20

16h15 – 17h45: Risks and crises management (Samantha Lim & Per-Erik Johansen)

Auditorium Cassin

Oral presentations

RCM-1. **Keynote:** Improved response to biothreats posed by PLANT toxins – Progress in management, detection, forensics and therapeutics in a French-German research project. Brigitte Dorner

RCM-2. Experimental setup for validation of scaled-down chemical plume mitigation measure - Yifei Ma

RCM-3. Cyber Threat Intelligence for CBRNe Resilience: How to Protect Public Spaces from Hybrid Threats. Genny Dimitrakopoulou

RCM-4. UAVs in support to response in radiological emergencies: the INCLUDING project experimentation. Massimiliano Guarneri

RCM-5. Lessons learned on risk management after a major accident: the inspection activities. Romualdo Marrazzo

Flash presentations

RCM-6. Advanced Parallel Lagrangian Dispersion Modeling for Urban Dispersion of Hazardous Effluents: A Novel Approach for Rapid and Accurate CBRNE Impact Assessment. Armand Albergel

RCM-7. Innovations & Data Governance to counter hybrid threats against Critical Entities Digital evidence. Souzanna Sofou

RCM-8. Drones and Bio-Chemical Threats: from Problems to Solutions. Benjamin Queyriaux

RCM-9._DIREKTION - Disaster Resilience Knowledge Network promoting innovation, technology uptake and multi-stakeholder cooperation. Olivier Salvi

Posters

Rescue procedures in Toxic Containment Laboratories. Gwladys Meesemaecker

Rescue procedures in Biosafety Levels 3 (BSL-3) and 4 (BSL-4) laboratories. Fabienne Neulat-Ripoll

CBRN laboratory analysis - What is the technician exposure risk? Henry Keijzer
Is it CBRN? FOI, a part of swedish preparedness against dangerous substances.
Susanne Johansson

Implémentation of the Tunisian Taskforce against Biothreats: A five Principles Approach.
Mounir HAGUI

Wednesday MARCH 20

16h15 – 17h45: Detection NR (Karim Boudergui & Christophe Den Auwer) Londres room

Oral presentations

DET-NR1. **Keynote:** Actinide chemistry in radioecological studies, the case of marine environment. Christophe Den Auwer

DET-NR 2. NaTIF Radiation Portal Monitor performances optimization by means of multi-parametric analysis. Victor Buridon

DET-NR 3. Calibration of excess variance in neutron coincidence counting for NDA. Gabriel Chartier

DET-NR 4. ENTRANCE European 3 years project. Guillaume Sannié

DET-NR 5. Codeac Solutions – Colorimetric Detection of Nuclear Threats. Tristan Kennelly

Posters

Comparison of XRS3 and XRS4 portable generators for digital X-ray imaging used with a PIXIUM flat panel detector. Nicolas Dufour

Neutron Interrogation for Special Nuclear Material Detection within the MULTISCAN 3D Project. Eric Garrido

Industrialization of Handheld Neutron/Gamma probe: G/N Tracker. Céline Gesset

Nuclear and radiological compatibility of army painting systems: NORMDEF 0003-2, A.6
Clelia Le Gallic

OMNISCINTI : quintuple scintillator, and organic glass scintillator. Pauline Vergnory

20h00: Gala dinner at l'ancienne douane

Thursday MARCH 21

9h00 – 10h30: Forensics CB (Anne Bossée & Crister Astot) Auditorium Cassin

Oral presentations

FOR-1. **keynote** Molecular forensics in biotreat scenarios – Next level profiling of toxic plant materials containing ricin and abrin- Sylvia Worbs & Lisa Sharrenbroch

FOR-2. High resolution mass spectrometry-based untargeted approach: a cutting-edge analytical technique for the detection and identification of organophosphorous synthesis sources. Carla Orlandi

FOR-3. Chemical impurity profiling enables linkage of starting materials and intermediate synthesis product for a carbamate CWA. Solja Säde

FOR-4. Chemical profiles in concretes after chlorine exposure. Karin Höjer Holmgren

FOR-5. Classification of ricin samples according to purification levels using untargeted 1D1H NMR and supervised multivariate analysis. Gregoire Delaporte

Flash presentations

FOR-6 Towards a molecular forensic approach of Ricinus communis seeds using mass spectrometry-based multi-omics. Kodjo Nouwade

FOR-7 Laboratory processing of forensic evidence contaminated by chemical and biological warfare agents-previero. Alessandro Previero

Posters

Surveillance and Reconnaissance Techniques for Chemical & Biological Threats. Leticia Fernandez Velasco

Chemical attribution of tabun compounds using multiple analytical and chemometric tools. Hongmei Wang

Study and development of organophosphorus nerve agents-albumin adduct dataset. Hongmei Wang

Temporary Working Groups of the Scientific Advisory Board of the OPCW - history, impact and introduction of the next TWG. Peter Hotchkiss

Forensic profiling of chemical dispersion devices. Mirjam de Bruin-Hoegee

Autonomous, Agnostic Metagenomic Sequencing of Wastewater to Detect Pathogens. Stephen Francesconi

elizUniversal forensic fast sampling of air-borne CBRN Agents. José Luis Pérez-Díaz

Thursday MARCH 21

11h15 – 12h45: Detection B (Jean-Maxime Roux & Jean-Ulrich Mullet) Auditorium Cassin

Oral presentations

DETB-1. Towards detection of airborne pathogens within a micro total analysis system- Jean-Maxime Roux

DETB-2. Mass Spectrometric Detection of Novel Botulinum Neurotoxins- Suzanne Kalb

DETB-3. Performance and Operational Study of a Bioaerosol Threat Detector for Automated Environmental Bioaerosol Surveillance- Kenneth Chung

DETB-4. Development and Validation of a Rapid and Sensitive Multiplex Assay for the Detection of Staphylococcal Enterotoxins (SEA-SEI)-Paulin Dettmann

DETB-5. Enhancement of biological threats detection by electrothermal flows in a microsystem. Lena Gonzalez

Flash presentations

DETB-6. Improving sample preparation before qPCR analysis: new approaches in conservation, lysis and extraction. Anastasia Dewolf

DETB-7. Integration of digital holographic microscopy and advanced numerical simulations of microorganisms for bio threats detection- Alessandro Molani

DETB-8. AI-supported platform to detect and cross-validate airborne biothreat. János Pálhalmi

Posters

Universal detection of high-priority viral agents by mass spectrometry. Clément Lozano

Use of modern predictive genetic tools to generate investigative leads. Maria Wróbel

Optimization of reverse-transcription loop-mediated isothermal amplification for in situ detection of SARS-CoV-2 in a micro-air-filtration device format. Jacob Fry

Development of qPCR assays targeting biothreat agents. Fabienne Gas

LAB-AROUND-FIBER FOR DETECTING BIOLOGICAL THREATS. Marine Poret

Development of qPCR assays targeting Ricinus communis and Abrus precatorius. Fabienne Gas

Protocol optimization for sequencing degraded bacterial samples: comparison of different library preparation kits. Auriane Cozic

Detection of Ricin and Abrin with Monoclonal Antibodies via Immunofluorescence Microscopy and Flow Cytometry. Amina El Houari

Development of a platform from sample to sequencing. Mélissa Baque

A changing world: New approaches for the development of detection methods for safety and security-relevant bacterial pathogens. Konrad Kosciow

Toward a better management of plant toxins intoxication by improving the performances of environmental detection and in vitro diagnostic immunotests. Camille Kropp

Paper-based device for monitoring eco-friendly antimicrobial coating effectiveness. Luca Fiore

Multiplex detection of bio-threat agents using microfluidic paper-based analytical devices (μ PADs). Monica Araya-Farias

Preliminary results of a study concerning sampling biological agents. Sylvia Schirmer

Thursday MARCH 21

14h0 – 15h30: Medical Countermeasures B (Brigitte Dorner & Laurent Bellanger)

Auditorium Cassin

Oral presentations

MCM-B-1. **Keynote:** Balancing Progress and Peril: Exploring the Frontier of Synthetic Biology and Bioweapon Risks. Jean-Luc Gala

MCM-B-2. Anthrax toxin levels are indicators of disease progression and antimicrobial and antitoxin treatment efficacy in non-human primate and New Zealand white rabbit models. John Barr

MCM-B-3. Targeted selection of therapeutic antibody-candidates against ricin intoxication. Daniel Stern

MCM-B-4. Development and in-depth characterization of monoclonal anti-ricin antibodies for the treatment of lethal ricin intoxication. Lois Lequesne

MCM-B-5. Toward New Antibacterial Compounds to Fight against Anti-Microbial Resistance. Jérôme Wagner

Flash presentations

MCM-B-6. Development of an antibody that neutralize several species of orthopoxvirus. Arnaud Avril

MCM-B-7. Characterization of novel anti-LF and anti-PA antibodies and Evaluation of their ability to neutralize anthrax lethal toxin in vitro. Elsa Fissier

MCM-B-8. Antibody generation and development of a rapid test for the diagnosis of infection caused by the Monkeypox virus. Arnaud.Chalin

MCM-B-9. Development and evaluation of immunoassays for the diagnosis of plague. Julien Gumila

MCM-B-10. Harnessing Diversity: Fabentech's F(ab')₂ Platform offers a Multifaceted Shield Against Emerging Threats Véronique Juillard

Posters

Evaluation of *Galleria mellonella* larvae as a tool for studying biological weapons: the example of ricin. Clémence Rougeaux

Burkholderia pseudomallei: effect of phenothiazines on the resistance mechanisms. Fabienne Neulat-Ripoll

Study on Virtual Screening Method for Affibody of Staphylococcal Enterotoxin B. Junjie Ding

Advancements in Combating Tularemia: Novel Therapeutic Strategies Targeting *Francisella tularensis*. Sophie Guillier

Long-term mucosal SARS-CoV-2 IgA response and its association with persistent smell and taste disorders. Aurélie Trignol

Detection of staphylococcal enterotoxin K, an emerging and incapacitating toxin, with an optimized ELISA method. Nina Aveilla

Bacillus anthracis close neighbors in the spotlight: avoid misidentification and detect toxigenic isolates. Charlotte Falaise

Development and in-depth characterization of monoclonal anti-ricin antibodies for the treatment of lethal ricin intoxication. Lois Lequesne

Autophagic degradation is involved in cell protection against ricin toxin. Gillet Daniel