

Tuesday, May 3rd

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| 10:00 | Ouverture des enregistrements / Opening of registrations |
| 11:15 – 12:30 | Visite inaugurale de la conférence / VIP inauguration |
| 12:30 – 13:30 | Lunch |
| 13:30 – 13:40 | Accueil des participants par le comité d'organisation / Welcome of the attendees by the organizing committee |
| 13:40 – 14:00 | Discours d'ouverture par M. le préfet N. De Maistre (SGDSN/PSE) / Opening speech by Mr Prefect N. De Maistre (SGDSN/PSE) |
| 14:00 – 14:20 | Sécurisation des JO 2024. Présentation des challenges sécuritaires / Olympic games 2024 securing. Presentation of security challenges (S. Pereira-Rodrigues, Délégation interministérielle aux jeux olympiques) |
| 14:20 – 14:40 | Besoins technologiques dans le domaine de la sécurité nationale NRBC-E/ Technological needs for national CBRNE security (L. Lachenaud, Secrétariat général de la défense et de la sécurité nationale) |
| 14:40 – 15:20 | La défense NRBC des Armées / CBRN Defense of the Armies |
| 14:40 – 15:00 | Quelles capacités pour quelles missions ? / CBRN Defense of the Armed Forces : what capabilities for what missions ? (Colonel Olivier LION, Etat-Major des Armées, chef du bureau NRBC) |
| 15:00 – 15:20 | La réponse au besoin opérationnel : de la recherche à la mise en service / The answer to the operational need : from research to commissioning (Guillaume Hersen, DGA) |
| 15:20 – 15:40 | Coffee break |
| 15:40 – 16:10 | The impact of Evolving Science and Technology on the Chemical Weapons Convention (Peter Hotchkiss OPCW) |
| 16:10 – 16:40 | Les maladies infectieuses : l'importance du mot d'ordre épistémique « un monde, une santé ». / Infectious diseases : the importance of One Health world (Pascal Boireau, ANSES) |
| 16:40 – 17:10 | Managing behavioural and psychological responses to CBRN incidents: lessons from the COVID-19 response" (Richard Amlot ,UK Health Security Agency) |
| 17:30 – 18:45 | Visite du village de l'innovation / innovation village visit |
| 19:00 – 20:30 | Cocktail musical de bienvenue / Welcome musical cocktail |

Wednesday, May 4th

9:00 MEDICAL COUNTERMEASURES – C (Chair: Frédéric Dorandeu & Florian Nachon)

- [MCM-C1 Keynote](#) **Timo Wille:** Medical Chemical Defence: diagnostic and therapeutic strategies for nerve agent exposure
- [MCM-C 2](#) **Zrinka Kovarik:** Assessment of pralidoxime analogues as efficient reactivators of butyrylcholinesterase inhibited by organophosphates
- [MCM-C 3](#) **Pierre Yves Renard:** A new class of bi and trifunctional sugar oximes as antidotes against organophosphorus poisoning
- [MCM-C 4](#) **Kamil Musilek:** Halogen substituents enhance oxime nucleophilicity for reactivation of cholinesterases inhibited by nerve agents
- [MCM-C 5](#) **Kentrop Jiska:** Development of a guinea pig model for opioid-induced respiratory depression.

[Flash presentations](#)

- [MCM-C 6](#) **Milica Denic:** Development of a novel recombinant system for the in-situ expression of the nerve agent bioscavenger Butyrylcholinesterase.
- [MCM-C 7](#) **Quentin Gerard:** Imagery evaluation of cerebrovascular inflammation and functional consequences induced by sublethal doses of sarin surrogate: non-invasive imaging methods to predict long-term deficits.
- [MCM-C 8](#) **Alex Cornelissen:** AI-driven detection and diagnosis of acute chemical intoxication
- [MCM-C 9](#) **Rudolf Andry's:** Immobilized human cholinesterases as a powerful biocatalyst, bioscavenger and tool for inhibition mechanism study
- [MCM-C 10](#) **Moradi Faraidoun:** The long-term impact of sulfur mustard exposure on quality of life and mental health in Kurdish survivors in Sweden

10:30 *Coffee break*

11:00 MEDICAL COUNTERMEASURES – B (Chair: Marie Mura & Emmanuelle Billon-Denis)

- [MCM-B 1 Keynote](#) **Jean-Nicolas Tournier:** Lessons learned from COVID-19 pandemic: a fresh look at medical counter measures for biological agents
- [MCM-B 2](#) **John Barr:** Comprehensive characterization of anthrax toxins during the course of inhalation infection in non-human primate models
- [MCM-B 3](#) **Hélène Letscher:** Development of a non-human primate model of ricin intoxication by intratracheal instillation.
- [MCM-B 4](#) **Houda Boukhebza:** A new medical countermeasure to fight ricin intoxication: highly neutralizing specific polyclonal F(ab')₂ strongly control lethal intoxication in mice and non-human primates

[Flash presentations](#)

- [MCM-B 5](#) **Hervé Nozac'h:** Molecular engineering as a new source of optimized antibodies for detection, diagnosis and therapy of CBRN threats
- [MCM-B 6](#) **Arnaud Avril:** Identification of a neutralizing antibody targeting both vaccinia and variola virus.
- [MCM-B 7](#) **Levent Kenar:** A Newly Developed Amperometric Immunosensor for the Detection of Bacillus anthracis Spores
- [MCM-B 8](#) **Chun-Qiang Liu:** Evaluation of the human dose of inhalational levofloxacin for treating Bacillus anthracis in the dynamic hollow fibre infection model
- [MCM-B 9](#) **Maria Lucia Orsini Delgado:** Protective activity of anti-ricin monoclonal antibodies in a mouse model of intranasal intoxication

12:30 *Lunch*

14:00 DETECTION – NRCE (Chair: Klaus Mayer & Lionel Hairault)

[DET-NRCE 1 Keynote](#)
[DET-NRCE 2](#)

Oscar Van der Jagt: Explosives detection: it's all connected

Marie Géleoc: Towards a Laser-IMS tool for the real-time detection of adsorbed compounds

[DET-NRCE 3](#)

Maria Allers: High Kinetic Energy Ion Mobility Spectrometry (HiKE-IMS) for Selective On-Site Detection of Toxic Industrial Chemicals (TICs)

[DET-NRCE 4](#)

Khunnaphat Lertborworn: An Electroanalysis of Elements in Gunpowder in Explosive Ordnance Disposal Field

[DET-NRCE 5](#)

Clotilde de Sainte Foy: Optimization of the ENTRANCE Rapidly Relocatable Tagged Neutron Inspection System

[DET-NRCE 6](#)

Nicolas Martin-Burtart: Automatic measurement processing for airborne and airborne gamma spectrometry

[Flash presentations](#)

[DET-NRCE 7](#)
[DET-NRCE 8](#)

Alain Bry: SYMOPREP®: a new tool for efficient particles sampling.

Matteo Guidotti: Cyclic triimidazole: an appealing and versatile luminescent scaffold for explosive detection

[DET-NRCE 9](#)

Valérie Lourenço: Custom radioactive standards to assess detector performance

[DET-NRCE 10](#)

Camille Frangville: GN TRACKER: Handheld Neutron/Gamma Probe for Homeland Security Surveillance

15:30

Coffee break

16:00 RISK AND CRISIS MANAGEMENT (Chair: Samantha Lim-Thiebot & Jean-Ulrich Mullot)

[RCM-1 Keynote](#)

Gemma Bowsher: Building Resilient Health Systems Intelligence: Adapting Indicators of Compromise for the Cyber-Bionexus

[RCM – 2](#)

Henry Keijzer: Pitfalls in field identification - a case report

[RCM – 3](#)

Todd Myers: A Laboratory Model for Advancing Food Chemical Defense

[RCM – 4](#)

Laura Petersen: Including vulnerable people in CBRN field exercises - an ethical approach

[Flash presentations](#)

[RCM – 5](#)

Patrick Armand: 3D modelling and simulation of atmospheric dispersion applied to CBRN-E threat assessment

[RCM - 6](#)

Jeroen A Van der Meer: Large scale outdoor facility for the evaluation of DIM and ColPro systems

[RCM – 7](#)

Jozef Sabol: Radiological terrorism: Risk assessment and communication

[RCM - 8](#)

Gabriel Hugoniot & David Stühler: National Configurations of Biosecurity in France and Germany

17:30 POSTER SESSION: Posters sessions are scheduled immediately after the conferences of each topic, and at 17:30 the same day

[C Medical Countermeasures Posters](#)

[MCM-C P1](#)

Anne Bossée: Comparison of two derivatising agents for the GC-MS/MS identification of a biomarker related to sulfur mustard exposure (released thiodiglycol) in plasma samples

[MCM-C P2](#)

Jihene Bouheli: Investigation of tears and plasma metabolomes following sulfur mustard exposure for identifying prognostic biomarkers of ocular damage

[MCM-C P3](#)

Thierry Douki: Glutathione conjugates as biomarkers of the systemic diffusion of vesicating agents

[MCM-C P4](#)

Sandrine Livet: Quantification of plasmatic acetylcholine by UHPLC-MS/MS

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| <u>MCM-C P5</u> | Mariana Mikic: Strategy of treatment and analysis for the identification of exposure to blister agents in urine samples |
| <u>MCM-C P6</u> | Franck Razafindrainibe: Design, synthesis and biological evaluation of bifunctional fluoropyridinaldoxime and fluoropyridinamidoxime reactivators for nerve agent-inhibited human acetylcholinesterase. |
| <u>MCM-C P7</u> | Xavier Brazzotto: Self-reactivation of swine butyrylcholinesterase upon V-type nerve agent inhibition, a molecular dynamics study |
| <u>MCM-C P8</u> | Janek Bzdrenga: Evaluation of recombinant human paraoxonase-1 for hydrolyzing capabilities of G-series nerve agents, an in vitro study |
| <u>MCM-C P9</u> | Fanny Caffin: Sulfur Mustard induced ocular injuries: Pathophysiology study in rabbit model |
| <u>MCM-C P10</u> | Léna Cattai: Hemorrhagic shock and nerve agent intoxication, a swine model of combined injury: focus on blood cholinesterases and coagulation follow-up |
| <u>MCM-C P11</u> | Laura Cochrane: Pharmacokinetics and Efficacy of Atropine Sulfate/Obidoxime Chloride Co-formulation against VX in Guinea Pigs |
| <u>MCM-C P12</u> | Grégory Dal Bo: Neurologic effects of VX sub-lethal doses exposure in mice: neuroinflammation, behavior and histopathology characterization |
| <u>MCM-C P13</u> | Grégory Dal Bo: Electrophysiological and behavioral modifications induced by acute sarin sub-lethal doses exposure and evaluation of emergency treatment efficacy. |
| <u>MCM-C P14</u> | Fanny Gros-Désormeaux: Is CEES a good analog of Sulfur Mustard? Comparison of SM and CEES-induced skin lesions regarding macroscopic aspects, histology and molecular biology |
| <u>MCM-C P15</u> | Anne-Sophie Hanak: Characterization and comparison of breathing alteration induced by two organophosphorus compounds at sublethal dose poisoning: a pesticide and a sarin surrogate in mice |
| <u>MCM-C P16</u> | Petr Jost: Long-term effects of sulfur mustard retreatment on HaCaT keratinocytes |
| <u>MCM-C P17</u> | Jiri Kassa: Influence of experimental end point on the therapeutic efficacy of the essential and additional antidotes in nerve agent poisoned mice |
| <u>MCM-C P18</u> | Nicolas Lamassiaude: Functional characterization of original multi-targets antidotes against neurotoxic organophosphorus compounds on neuronal and muscular nicotinic receptors |
| <u>MCM-C P19</u> | David Malinak: the bodipy labeled bisquaternary ammonium salts used as reactivators of acetylcholinesterase |
| <u>MCM-C P20</u> | Fabrice Modeste: Proteomic study of the carbamylation of native recombinant human butyrylcholinesterase by high-resolution mass spectrometry and spectra deconvolution |
| <u>MCM-C P21</u> | Karine Thibault: Neuroprotective increase of a combined treatment of two oximes against VX-exposure in mice |
| <u>MCM-C P22</u> | Lina Thors: Supplemental treatment to atropine improves the efficacy to reverse nerve agent induced bronchoconstriction |
| <u>MCM-C P23</u> | Mariène Trancart Noael: dose interest assessment as an optimized dose of oxime in the treatment of organophosphorus compounds exposure |
| <u>MCM-C P24</u> | Camille Voros: Innovative hybrid reactivators of hAChE inhibited with neurotoxic organophosphorus compounds |

B Medical Countermeasures Posters

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| <u>MCM-B P1</u> | Santiago Barona: Botulism Antitoxin Heptavalent (A, B, C, D, E, F, G)- (Equine) (BAT®) Use in Clinical Study Subjects and Patients: A 15-Year Systematic Safety Review |
| <u>MCM-B P2</u> | Lucie Caramelle: Retro-2.1 derivatives as broad-spectrum inhibitors of biothreat agents with improved activities and bioavailability |
| <u>MCM-B P3</u> | Lucie Caramelle: Pharmacokinetics, toxicology and biodistribution of the broad-spectrum inhibitor of toxins and viruses, C910 |
| <u>MCM-B P4</u> | Benjamin Chalopin: Deciphering antibody/antigen interactions by high-throughput mutational studies, application to SARS-CoV-2 antibodies |
| <u>MCM-B P5</u> | Justina Creppy: Development of an alternative predictive in vitro macaque model to study the deposition of aerosolized agents of the threat |

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| <u>MCM-B P6</u> | Douglas Grosenbach: Smallpox Preparedness: Integrating TPOXX® into Response Planning |
| <u>MCM-B P7</u> | Loïs Lequesne: Evaluation of the in vitro neutralizing capacity of anti-ricin antibodies against different ricin isoforms |
| <u>MCM-B P8</u> | Marie Mura: Measles defective interfering genomes: a broad protective shield against respiratory infections? |
| <u>MCM-B P9</u> | Fabienne Neulat-Ripoll: RNAseq analysis on B. pseudomallei clinical isolates and impact of phenothiazines on resistance's mechanisms |
| <u>MCM-B P10</u> | Eléa Paillares: Broad-spectrum bacterial toxin inhibitor targeting the endocytic pathway to attenuate bacterial virulence |
| <u>MCM-B P11</u> | Frédéric Rivière: Toward a better comprehension of the physiopathology of a potential biological weapon through characterization of pulmonary immune mechanisms following infection of murine model with Influenza virus |
| <u>MCM-B P12</u> | Adrien Laroche: Deep Mutational Engineering of broadly-neutralizing nanobodies accommodating SARS-CoV-1 & 2 antigenic drift |

Detection NRCE Posters

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| <u>DET-NRCE P1</u> | Jozef Sabol: Radiation methods for the selective detection and identification of individual CBRNe components |
| <u>DET-NRCE P2</u> | Aly Elayeb: Investigation of triple-discriminating plastic scintillators for the detection of SNM in active measurements by photofission at 7 MeV |
| <u>DET-NRCE P3</u> | Thibaud Le Noble: TECHO: an innovative device for the measurement of beta contamination in high and fluctuating gamma environments |
| <u>DET-NRCE P4</u> | Hubert Schoech: Nuclear forensic on RN materials: CEA participation to the Collaborative Material eXercises (CMX) |
| <u>DET-NRCE P5</u> | Vincent Schoepff: TERRIFFIC: Innovative Radiation Detection Devices for Providing Faster Information to CBRNe First Responders |
| <u>DET-NRCE P6</u> | Julien Spruytte: Rad/Nuc detection architecture for Major Public Events |
| <u>DET-NRCE P7</u> | Lukasz Szklarski: Heterogeneous network of stationary, mobile, and UGV-mounted RN sensors for increased operational safety and reduced false-alarm rate |
| <u>DET-NRCE P8</u> | Axel Tiberinus: Development of advanced Radiation Portal Monitors (RPM) for high-speed RN detection |

Risk and Crisis Management posters

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| <u>RCM P1</u> | Patrick Armand: Dispersion of drops and droplets carrying pathogenic biological agents in a semi-confined space |
| <u>RCM P2</u> | Eric Ezan: The France/Germany PLANT project Priority to threats posed by plant toxins: management, detection, forensics and therapeutics in a bioterrorism incident |
| <u>RCM P3</u> | Michael Huart: MEDILAC or Anti-covid Mediators, reinforcement in the management of the outbreak |
| <u>RCM P4</u> | Natalie Maroun: Risk and its acceptability in the society of fear. What role for communication in the management of risk and ECBRN crises? |
| <u>RCM P5</u> | Raffaella Soave: Lessons from CBRN CoE Project 65: strengthening C&B waste management in Central Asia countries for improved security and safety risk mitigation |
| <u>RCM P6</u> | Mariano Martín Zamorano: Stakeholders' acceptability in CBRNe preparedness and response: assessing differential impact through PROACTIVE project |
| <u>RCM P7</u> | Sarah Le Tohic: Risk mapping associated with organization of a COVID-19 immunization campaign |

20:00 GALA DINNER

Thursday, May 5nd

9:00 PROTECTION DECONTAMINATION (Chair: Robert Chilcott & Gilles Richner)

- [PRO-DEC 1 Keynote](#) **Martijn de Koning:** CBRN applications of Metal Organic Frameworks
[PRO-DEC 2](#) **Andreia Pinhal:** Development and Validation of a Robotic System for the Accurate and Reproducible Dermal Application of Skin Decontamination Candidate Products
[PRO-DEC 3](#) **Diana Sara Pereira Ferreira:** Natural fibers and nanoparticles as building blocks for multifunctional personal protective systems
[PRO-DEC 4](#) **Joana Araujo:** Advanced personal protective systems based on hemp fabrics coated with electrospun chitosan-TiO₂/CeO₂ nanofibers

Flash presentations

- [PRO-DEC 5](#) **Pascal Viel:** Chemically active fibers as sorbant for industrial and weapon gaz capture
[PRO-DEC 6](#) **Laura Cochrane:** Effects of Reactive Skin Decontamination Lotion on Ricin Activity
[PRO-DEC 7](#) **Elodie Jobard:** Kinetic studies of degradation of OrganoPhosphorus New Neurotoxic Agents (OP) during decontamination process
[PRO-DEC 8](#) **Charlotte Falaise:** Hydrogen Peroxide Vapor Decontamination of Hazard Group 3 agents in a Biosafety Level-3 Laboratory
[PRO-DEC 9](#) **Aur lie Nervo:** Efficacy assessment of RSDL® emergency decontamination in an anesthetized swine model of acute percutaneous organophosphorus compounds exposure
[PRO-DEC 10](#) **Lysiane Champion:** Assessment of skin penetration for 3 new organophosphorus chemical warfare agents

10:30 *Coffee break*

11:00 PROTECTION DECONTAMINATION (Chair: Diana Sara Pereira Ferreira & Robert Chilcott)

- [PRO-DEC 11 Keynote](#) **Lina Thors:** Comparison of skin decontamination strategies in the initial operational response following chemical exposures
[PRO-DEC 12](#) **Mahalingam Devanya:** Skin Decontamination Efficacy of Zirconium Hydroxide
[PRO-DEC 13](#) **Mathieu Xemard:** Characterization of Chemical Warfare Agents degradation kinetics: an insight into decontamination mechanisms
[PRO-DEC 14](#) **Katrin Wieden:** What the future of decontamination will look like - Parallel PCR-detection, no-touch disinfection and transborder cooperation

Flash presentations

- [PRO-DEC 15](#) **Nelly Couzon:** Microwave synthesis of porous composites Textile/Metal-Organic Framework (MOF) for the degradation of chemical warfare agents and the capture of radioactive species
[PRO-DEC 16](#) **Beno t Chandesris:** Safe ER: a disruptive non-destructive indicator of the saturation of a gas filter
[PRO-DEC 17](#) **Alban Gossard:** Capture and fixation of CBR aerosol contamination using aqueous and gel spraying technologies

12:30 *Lunch*

14:00 DETECTION – B (Chair: Brigitte Dorner & Laurent Bellanger)

- [DET-B 1 Keynote](#) **Brigitte Dorner:** European programme for the establishment of validated procedures for the detection and identification of biological toxins (EuroBioTox)

- [DET-B 2](#) **Jean-Maxime Roux:** A microfluidic cartridge to sample and analyze airborne virus in high risk areas
- [DET-B 3](#) **Fabiana Arduini:** Smart miniaturized biosensors for chemical and biological warfare agents
- [DET-B 4](#) **Suzanne Kalb:** Mass Spectrometric Detection and Characterization of Botulinum Neurotoxins
- [DET-B 5](#) **Sébastien Graziani:** Preparation and analysis of ricin seeds from different cultivars for toxicological and forensic purposes

Flash presentations

- [DET- B 6](#) **Cécile Feraudet-Tarisse:** Point-of-care dipstick tests for biological warfare agent detection: reality and challenges.
- [DET- B7](#) **Mawethu Bilibana:** Electrochemical DNA aptamer-based biosensor for Microcystin-LR detection, using nanocomposites modified on glassy carbon electrode surface.
- [DET-B 8](#) **Sylvia Worbs:** Differentiation, Quantification and Identification of Abrin and Abrus precatorius Agglutinin
- [DET-B 9](#) **Nathalie Morel:** Duplex lateral flow immunoassay (LFIA) for detection of Yersinia pestis in environmental samples and suspicious substances
- [DET-B 10](#) **Jin Wei Chung:** A Qualitative Study on Sampling Capacity and Effectiveness of Biological Air Samplers in Indoor Environments for Bioaerosol Surveillance
- [DET-B 11](#) **Gauthier Landerer:** Development of qPCR assays targeting biothreat agents

15:30 *Coffee break*

16:00 Medical Countermeasures – NR + Diagnosis (*Chair: Alexandra Mailles & Michael Abend*)

- [MCM-NRB 1 Keynote](#) **Michael Abend:** Molecular and cytological diagnosis of acute radiation syndrome
- [MCM-NRB 2](#) **Alexandra Bourgois:** Macrophages as targets for new therapeutic approaches to manage plutonium internal contamination
- [MCM-NRB 3](#) **Emmanuelle Rota Graziosi:** Modulation of Hedgehog pathway as a potential therapeutic strategy to promote muscle regeneration after high dose radiation
- [MCM-NRB 4](#) **Christine Linard:** Stromal vascular fraction for the treatment of the radiation-induced gastrointestinal syndrome

Flash presentations

- [MCM-NRB 5](#) **Béatrice le Roy:** UHPLC-MS/MS dosage of ricin and Abrin biomarkers: ricinine and L-abrine
- [MCM-NRB 6](#) **Alicia Nouvel:** Development of a rapid diagnostic test for Monkeypox virus
- [MCM-NRB 7](#) **Mostafa Bentahir:** Nucleic acids isothermal amplification methods for fast and reliable detection of biothreat agents: potential for on-site use in operational conditions
- [MCM-NRB 8](#) **Virginie Nouvel:** Improving sample preparation before qPCR analysis: new approaches in conservation, lysis and extraction
- [MCM-NRB 9](#) **Hervé Boutal:** Development and evaluation of a duplex lateral flow assay for the diagnosis of plague

17:30 POSTER MEETING & POSTER PRIZE!

Protection Decontamination Posters

- [PRO-DEC P1](#) **Carole Dougnac:** How to manage contaminated casualty evacuation
- [PRO-DEC P2](#) **Carole Dougnac:** DECPOL ABS® DRY Decontamination wipe
- [PRO-DEC P3](#) **Nevine Amer:** Skin Decontamination Efficacy of Zirconium Hydroxide Against Simulants for VX, GD and HD; Comparison to Currently Fielded Countermeasures

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| PRO-DEC P4 | Wilson Antunes: REUSE: Bio-decontamination of filtering face piece respirators and masks for reuse project dissemination |
| PRO-DEC P5 | Marion Callau: Siloxane-based slippery omniphobic surfaces: grafting mechanism, surface structure and wetting properties. |
| PRO-DEC P6 | Capucine Chaar: Molecularly imprinted polymers based on cyclodextrin derivatives used as artificial enzymes for the chemical detoxification of organophosphorus nerve agents |
| PRO-DEC P7 | Robert P Chilcott: SARS-CoV-2: An Evaluation of Basic Adaptations to Improve the Performance of Surgical Masks |
| PRO-DEC P8 | Julien Claudot: Assessing CWA performances of CBRN protective ensembles and equipments at DGA CBRN Defence |
| PRO-DEC P9 | David Daudé: Enzymatic decontamination of G-type, V-type and Novichok nerve agents |
| PRO-DEC P10 | Kardelen Durmaz: An innovative phyllosilicate-based hydrogel for skin decontamination against chemical warfare agents |
| PRO-DEC P11 | Stefano Econdi: Degradation of nerve chemical warfare agents simulants over catalytically-active inorganic oxides and clays |
| PRO-DEC P12 | Marine Eschlimann: Inactivation of SARS-CoV-2 by Simulated Sunlight on Contaminated Surfaces |
| PRO-DEC P13 | Leticia Fernandez Velasco: Tailoring of activated carbons for enhanced respiratory protection |
| PRO-DEC P14 | Fabien Frances: Conception, development and evaluation of different systems for the implementation of CBRN decontamination foams |
| PRO-DEC P15 | Alban Gossard: Transfer of contamination without degradation using complex fluids: a first step for decontamination and identification |
| PRO-DEC P16 | Célia Lepeytre: Gelified foam to treat both chemical and biological contaminated solid surfaces |
| PRO-DEC P17 | Matteo Guidotti: Inactivation of SARS-CoV 2 with aqueous hydrogen peroxide and pH modifiers: an easy and cheap approach |
| PRO-DEC P18 | Marek Matula: In vitro evaluation of surfactant decontamination efficiency against nerve agents |
| PRO-DEC P19 | Maël Morguen: Development of self-decontaminating protective clothes based on photocatalytic textiles |
| PRO-DEC P20 | Thomas Pardon: Innovative tool for mass decontamination of victims of CRN risks |
| PRO-DEC P21 | Damien Presle: Covid-19 resilience: evaluation of barrier face coverings at DGA CBRN Defence |
| PRO-DEC P22 | Alessio Varesano: Nano silver antimicrobial spray-coated textiles effective against SARS-CoV-2 |
| PRO-DEC P23 | Noemie Verguet: DECON: the good product for the good bug |

B Detection Posters

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| DET-B P1 | Jaouad Anter: Biological DIM deployable laboratory |
| DET-B P2 | Rómulo Aráoz: Multitarget detection of neurotoxines from the environment of interest for CBRNE |
| DET-B P3 | Nina Aveilla: Wide identification of staphylococcal enterotoxins using multiplex mass spectrometry and broad-spectrum antibody capture |
| DET-B P4 | François Becher: Protocol acceleration for trace level detection of abrin and ricin toxins by mass spectrometry |
| DET-B P5 | Fabienne Gas: Development of qPCR assays targeting Ricinus communis and Abrus precatorius |
| DET-B P6 | Léna Gonzalez: Acceleration of antigen-antibody recognition by AC electrothermal flow in a microchannel |
| DET-B P7 | Julien Lebreton: Implementation and optimization of an animal replacement method for BoNT detection: Endopeptidase-mass spectrometry assay |

- DET-B P8 **Clément Lozano:** Universal detection of high priority viral agents by mass spectrometry
- DET-B P9 **Anne-Sophie Mierzala:** Evaluation and comparison of different toxin detection methods (ELISA and LC-MS/MS) in matrices based on reagents available in the EuroBioTox repository
- DET-B P10 **János Pálhalmi:** Theoretical limits and perspectives of the digital holographic technology in bio-detection related on-field decision making.
- DET-B P11 **Marion Petitet:** Comparison of four immunoassay formats for ricin detection from the field to the bench.

NR Medical Countermeasures + Diagnosis Posters

- MCM-NRB P1 **Annabelle Garnier:** Development of a research serological test for the serodiagnosis of COVID-19
- MCM-NRB P2 **François-Xavier Boittin:** The immunosuppressant drug cyclosporin A aggravates irradiation effects in endothelial cells
- MCM-NRB P3 **Alain Chapel:** Generation of hematopoietic stem cells from induced human pluripotent stem cells (hiPSCs) in patients with acute irradiation syndrome an innovative therapeutic strategy of hematopoietic syndrome
- MCM-NRB P4 **Carole Helissey:** Extracellular Vesicles / Conditioned Medium derived from mesenchymal stromal cells to mitigate RI tissue damage: study in an in vitro model of cystitis
- MCM-NRB P5 **Cornelius Hermann:** Imaging flow cytometry based γ -H2AX foci assay for ionizing radiation dose estimation
- MCM-NRB P6 **Nicolas Jullien:** Focus on Hedgehog pathway blockade for muscle regeneration after high dose radiation exposure: comparison and therapeutic potential of three antagonists.
- MCM-NRB P7 **Sandrine Livet:** Semi-quantitative ricin analysis in human plasma by UHPLC-MS/MS
- MCM-NRB P8 **Nathalie Morel:** Rapid and sensitive Lethal Factor immunoassays for early diagnosis of anthrax
- MCM-NRB P9 **Vincent Garcia:** Genomic surveillance of SARS-CoV2 virus circulation: Establishment of a local multidisciplinary expert committee
- MCM-NRB P10 **Olivier Gorgé:** Phylogenetic investigation of a CoVID-19 outbreak on the Charles de Gaulle Aircraft Carrier
- MCM-NRB P11 **Olivier Gorgé:** CoVID-19 wastewater monitoring for the French Navy: a promising tool

C Detection Posters

- DET-C P1 **Mélissa Baque:** An integrable device from sample to sequencing
- DET-C P2 **Jean-Charles Baritoux:** Development of a mobile hyperspectral Raman imager for rapid Combat Warfare Agent detection on surfaces
- DET-C P3 **Pierre-Yves Foucher:** Standoff real-time acquisition and passive detection of chemical warfare agents vapors by an innovative and compact LWIR cryogenic multispectral camera: calibration and field trials.
- DET-C P4 **Kévin Jourde:** Mid Infrared Photoacoustic spectroscopy for trace-level field detection of TIC and CWA gas
- DET-C P5 **Anne Koenig:** Study of the interest of hyperspectral imaging for area targeting by a drone
- DET-C P6 **Henri Lancelin:** PBA and FGA threat detection
- DET-C P7 **Jean-Michel Melkonian:** Optical sources for next-generation differential absorption lidars for chemical warfare agent and toxic chemicals detection
- DET-C P8 **Christine Mer:** Multi-sensors SAW platform for detection and identification of toxic gases
- DET-C P9 **Sébastien Penlou:** Chromogenic sensors for CWAs detection applications

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| DET-C P10 | Anne Bossée: Analysis of toxic chemical from sorbent tubes and re-collection by TD-GC/MS-dFPD |
| DET-C P11 | Florence Ricoul: Electrospun fibers for CWAs thermal desorption applications |
| DET-C P12 | Rodrigue Rousier: Soil sampling with Unmanned Aerial Vehicle (UAV) |
| DET-C P13 | Romain Saint-Maxin: Synthesis of pro-fluorescent probes for the detection of organophosphorus nerve agents |
| DET-C P14 | Vesna Simic: Automated identification of illicit substances by chemometrics. Application to FTIR and RAMAN analysis. |
| DET-C P15 | Sonia Sousa Nobre: Luminescence Detection of Chemical Warfare Agents |
| DET-C P16 | Alexandre Teulle: Micro-Thermal Conductivity Detectors for Gas Analysis: a Review |
| DET-C P17 | Jérémy Touzeau: Wipe sampling methods for Chemical Warfare Agents surface contamination monitoring |
| DET-C P18 | Christian Weber: Analysis of Aerosolized and Condensed Phase Opioids in the Field Using Handheld Mass Spectrometry |
| DET-C P19 | Daniele Zappi: An eco-friendly paper-based algal biosensor for chemical warfare agent simulants detection |
| DET-C P20 | Charles Bazin: RSS - A pioneering EU CBRN Reconnaissance and Surveillance System |

Friday, May 6th

9:00 Detection – C *(Chair: Anne Bossée, Daan Noort & Bertrand Bourlon)*

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| DET-C 1 Keynote | Christophe Curty: OPCW Scientific Advisory Board view related to New Schedule 1 Chemicals |
| DET-C 2 | Emmanuel Joubert: Treatment and analytical strategies for the OrganoPhosphorus new neurotoxic agents (OP) in environmental samples |
| DET-C 3 | Robert C di Targiani: Evaluation of dried blood spot sampling for verification of exposure to chemical weapons |
| DET-C 4 | Mirjam de Bruin-Hoegée: Elucidation of chlorinated tyrosine adducts in blood plasma proteins as selective biomarkers of chlorine exposure |

Flash presentations

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| DET-C 5 | Sébastien Schramm: Comparison of Direct Analysis in Real Time Mass Spectrometry (DART-MS), Gas Chromatography (GC-MS) and Flame SpectroPhotometry (FSP) for the detection of DiMethyl Methyl Phosphonate (DMMP) |
| DET-C 6 | Sheldon Ho: Optimising sensor placement strategy using machine learning methods |
| DET-C 7 | Arjan van Wuijckhuijse: CHART: a novel system for detector evaluation against toxic chemical aerosols |
| DET-C 8 | Trey Sieger: New Detection Technology for Novichoks and Synthetic Opioids: Handheld Aerosol, Trace, & Vapor Detection based on High-Pressure Mass Spectrometry |
| DET-C 9 | Célestine Mairaville: Microfluidic biosensor for the enzymatic detection of organophosphorus compounds |
| DET-C 10 | Adnane Abdelghani: Mobile Deployable Chemical Laboratory: Applications of Nanotechnology |
| DET-C 11 | Florent Femy: An easy enzymatic method for the determination of concentrations of organophosphorus nerve agents in blood samples: Application to a VX poisoned swine model and comparison to a mass spectrometry method |

10:30 *Coffee break*

11:00 RISK AND CRISIS MANAGEMENT (*Chair: PER-Erik Johansson & Jean-Ulrich Mulot*)

RCM-10 Keynote

Felicia Pradera: National Health Security Resilience Assessment - A detailed examination of Australia's capability and capacity.

RCM-11

Karim Boudergui: Innovation in RN response: the INCLUDING in field exercises

RCM-12

Ladislava Navratilova: Chemical Emergency Preparedness Project for East Africa

RCM-13

Alaa Ramdani: Multi-stakeholder and multi-scale cooperation to guide action in health crisis situations: the lesson of the COVID-19 pandemic in the Provence Alpes Cote d'Azur region, France

Flash presentations

RCM - 14

Luis Miguel Carvalho: digital Chain of Custody in CBRNE domain: road to standardization

RCM - 15

Olivier Gorgé: UNSGM: a look back after five years of international exercises

RCM - 16

Branko Petrinc: Croatian-Slovenian Cross-border Cooperation in Radiation Protection

RCM - 17

Axel Lambert de Rouvrois : Buying a Billion doses : Reflections on COVAX

12:30

Farewell lunch