Posters sessions

Medical Countermeasures

On-field validation of the rapid diagnostic test Ebola eZYSCREEN® - *Laurent BELLANGER*

Biological effects of alumina nanoparticles / hydrochloric acid mixtures mimicking combustion aerosols from solid composite propellants on human pulmonary A549 alveolar epithelial cells – *Alexandra BOURGOIS*

Procaryotic expression of human butyrylcholinesterase: a new tool for the development of affordable nerve agents bioscavengers – *Xavier BRAZZOLOTTO*

In vivo efficacy assessment of novel uncharged reactivators of NOP-inhibited acetylcholinesterase in Mouse compared to pralidoxime – *André-Guilhem CALAS*

Effect of anthrax edema toxin – *Belinda DESRUES*

Design, synthesis and in vitro evaluation of a promising new class of bifunctional uncharged hybrid reactivators for nerve agent-inhibited human acetylcholinesterase – *José DIAS*

A unique preclinical core facility structure to study in non-human primates: intoxications, infections and to test and/or validate vaccines and medical countermeasures efficacy – *Frédéric DUCANCEL*

Modified Vaccinia Lister (MVL), a safe and easy to produce vector for human or veterinary vaccines – *Audrey FERRIER-REMBERT*

Development of monoclonal antibodies against Sudan Ebolavirus for detection, diagnostic and therapy – *Fabrice GALLAIS*

Systems Biology networks/pathways: Comparison at 7Systems Biology networks/pathways: Comparison at 72 h and 75 days post exposure to Soman in rats.2 h and 75 days post exposure to Soman in rats – *Aarti GAUTAM*

Structure-based drug design of new compounds targeting the protein-protein interfaces of the vaccinia virus DNA polymerase holoenzyme – *Frédéric ISENI*

Efficiency of multiple administrations of an HI-6 dimethanesulfonate, atropine sulfate and avizafone chlorhydrate combined treatment in Russian VX-intoxicated cynomolgus monkeys – *Nina JAFFRE*

Development of new reactivators of OP-inhibited cholinesterases – *Ludovic JEAN*

Risk-Informed Demand for CBRN Medical Countermeasures – *Mark Lawrence JOHNSON*

Innovative antiviral strategies targeting different steps of RABV infection – *Sabrina KALI*

Synthesis of Functionalized Chitosan Nanoparticles for Plutonium Pulmonary Decorporation – *Laurane LEOST*

Efficiency of phage therapy in an acute murine model of pulmonary infection – *Guillaume L'HOSTIS*

Immunopurification of proteins modified on tyrosine by chlorpyrifos oxon – *Oksana LOCKRIDGE*

High-Throughput Screening of Rac1 modulators as regulators of innate and acquired immunity – *Nassim MAHTAL*

Assessment of new medical countermeasures against nerve agent poisoning using an isolated organ approach – *Katharina MARQUART*

Bone Marrow Selective Shielding as an Approach to Protect First Responders from Deterministic and Stochastic Radiation Effects – *Oren MILSTEIN*

Acetylcholinesterase and respiration: where this essential enzyme is required? – *Aurélie NERVO*

Quorum quenching lactonase: towards innovative medical countermeasures against bacterial infections – *Laure PLENER*

Quantification of radiological threat and exposure: How much is too much? – *Jozef SABOL*

Using phenothiazines to inhibit efflux pumps: impact on B. pseudomallei clinical isolats – *Marine SCHNETTERLE*

Integrin CD11c as an emerging biomarker for Anthrax Edema Toxin infection – *Emilie TESSIER*

Early detection of active edema and lethal factors during cutaneous and pulmonary anthrax – *Clémence ROUGEAUX*

Protection/Decontamination

In vitro hair and skin decontamination studies evaluating the ladder pipe decontamination system (LPS), dry decontamination and combined dry and LPS decontamination strategies – *Nevine AMER*

Development of an in vitro combined human hair and pig skin model for evaluation of emergency decontamination strategies – *Nevine AMER*

Mass casualty decontamination in chemical incidents: outcomes from a series of human volunteer trials – *Richard AMLÔT*

Volunteer trials of a novel improvised dry decontamination protocol for mass casualty incidents as part of the UK’s Initial Operational Response – *Richard AMLÔT*

Laboratory-based studies of absorbent materials for mass casualty decontamination as part of the UK’s Initial Operational Response – *Robert CHILCOTT*

Formulating enzymes towards broad spectrum decontamination of chemical warfare agents (H, G and V) – *David DAUDE*

Experimental characterization of DEC’POL® decontamination properties (New emergency decontamination mitt) on threats agents simulants – *Carole DOUGNAC*

Optimisation of non-ambulant (clinical) decontamination processes – *Adam DURRANT*

Can sol-gel materials replace activated carbon? – *Eva GRINENVAL*

An environmentally friendly approach to extracting specifically uranium from contaminated soils and water – *Miryana HEMADI*

Adaptation of civilian system “Field and Laboratory Emission Cell FLEC®” for the measurement of CWA vapors released by solid materials after a decontamination process – *Aurélie JACQUART*

Investigation of microbial-host interactions for development of decontamination and biodefence strategies – *Klara KUBELKOVA*

Field trial of a putatively optimised process for ladder pipe decontamination of mass casualties – *Joanne LARNER*

BioChemGEL-Sys® B&C decontamination of Infrastructures – *Célia LEPEYTRE*

A combined skin and hair model for assessing decontamination systems using human volunteers *Devanya MAHALINGAM*

Evaluation of the ladder pipe system for mass casualty decontamination studies: in vitro studies with the chemical warfare agents sulphur mustard and VX – *Hazem MATAR*

Design issues and user feedback for Hospital CBRN decontamination unit – *Michel PHILIPS*

In vitro skin decontamination effectiveness as a function of contaminant geometry – *Andreia PINHAL*

In vitro skin decontamination effectiveness as a function of contamination density – *Andreia PINHAL*

Assessment of hair contamination by chemical warfare agents and evaluation of common decontamination procedures towards hair – *Anne PIRAM*

Development of a new animal model for evaluating toxicity and growth disruption: the case of organophosphorus compounds – *Laetitia POIRIER*

Harnessing a versatile lactonase from Sulfolobus solfataricus for health, protection and biodecontamination – *Benjamin REMY*

Fuller’s earth physical chemistry: mechanisms of action – *Annick ROUL*

Formulation of Pickering emulsion stabilized by CeO2, application for skin decontamination of the organophosphorus pesticide Paraoxon – *Alicia SALERNO*

Using ceria for skin decontamination of the organophosphorus pesticide Paraoxon: impact of physico-chemical properties of CeO2 and galenic form on its degradation activity – *Alicia SALERNO*

Metal-organic frameworks for C-protective clothing and respiratory cartridges – *Frank SCHNÜRER*

Decontamination of a small group of people – *Jean-Christophe ZINK*

Decontamination of working dog – *Jean-Christophe ZINK*

Detection

PathoTRACK: Toward a complete analytical chain of NGS data for the detection and identification of pathogenic organisms – *Johann BEGHAIN*

Particles sampling for explosives detection with the prototype device SYMOPREP – *Alain BRY*

Hair absorption of organophosphorus nerve agent simulants – *Clémentine COTE*

High-throughput DNA sequencing and bioinformatics for the detection and identification of pathogenic organisms in complex mixtures – *Stéphane CRUVEILLER*

Automated analytical system for sensitive detection of bacterial spores – *Remco den DULK*

Development of a Field-Forward Kit Designed to Extract Nerve Agent Breakdown Compounds from Urine and Aqueous Environmental Samples – *Robert diTARGIANI*

Gadosphere: a Gd-based plastic detector for wide spectrum neutron detection – *Jonathan DUMAZERT*

Development of zeolite matrix of laser desorption/ionization for CBRNE: direct analysis of drugs and their metabolites in urine – *Tatsuya FUJINO*

Genetic detection of biothreat agents – *Fabienne GAS*

An innovative microfluidic qPCR platform for high throughput qPCR testing of bioterrorism agents – *Fabienne GAS*

Rapid absolute quantification of abrin toxin and its isoforms in complex matrices by immuno-extraction and high resolution targeted mass spectrometry – *Eva-Maria HANSBAUER*

Automatized functional annotation of virulence and resistance factors to complement phylopeptidomics results – *Virginie JOUFFRET*

A downsized time-of-flight mass spectrometer for the detection of CBRNE chemical and biochemical molecules – *Takashi KORENAGA*

Identification and discrimination of bacteria by phylopeptidomics: the Bacillus genus example – *Charlotte MAPPA*

Identification of antimicrobial resistance biomarkers in Burkhodleria pseudomallei based on whole-cells MALDI-TOF mass spectrometry: from surrogates to clinical strains – *Mélissa MARCHANDEAU*

Optical elastic scattering for label-free identification of bacterial pathogens – *Pierre R. MARCOUX*

TOWARDS A REAL TIME MONITORING OF SAXITOSIN IN SEA WATER USING COLORIMETRIC DETECTION ASSAYS – *Laura MICHELI*

Experimental material discrimination in spectral tomography – *Vincent MOULIN*

Multi-energy X-ray detectors to improve air-cargo security – *Caroline PAULUS*

Detection of Special Nuclear Materials by Neutron Interrogation – *Bertrand PEROT*

Development of a novel piezoresistive lever sensor for pathogens detection – *Laurent PHAM VAN*

Mix24X, a reference artificial microbiota to evaluate phylopeptidomics and metaproteomics tools – *Olivier PIBLE*

Development of Micro- Time-Of-Flight mass spectrometer for Chemical Threat in situ detection – *Frédéric PROGENT*

Selective and sensitive near-infrared fluorescent probe for non phosphonylated acetylcholinesterase imaging – *Pierre-Yves RENARD*

A simple sample preparation device, keystone of a biological threat detection chain – *Jean-Maxime ROUX*

The tagged neutron inspection system of the C-BORD project – *Alix SARDET*

New method development for the fast identification of toxic chemicals by the analysis of their oxidation products – *Sébastien SCHRAMM*

A whole cell optical bioassay for the detection of chemical warfare agent simulants – *Viviana SCOGNAMIGLIO*

SPIR-Explorer: a Versatile RAD/NuC payload for UAV/UAG – *Julien SPRUYTTE*

Flat detector of toxic aerosols – *Michal DYMAK*

Risk Management

Psychological well-being of healthcare staff involved in the Ebola Response 2014-2015 – *Richard AMLÔT*

Improvements and innovative developments in CERES®, the CEA decision support system fitted to noxious atmospheric releases – *Patrick ARMAND*

French CBRNE medical SOPs: lessons learnt from EU funded FP7 exercises – *Catherine BERTRAND*

Fitting-out and testing of a FTIR stand-off vehicle – *Salvatore CORRAO*

Nuclear Risk, from Radioisotope (bio)chemistry to Public Perception – *Christophe DEN AUWER*

Lessons learned from chemical demonstrations in the European CBRNe EDEN project – *Céline DUPUIS*

A simple and operative CBRNe taxonomy proposal to facilitate the resilience of Hospital & Skilled Nursing Facility in France in light of the current terrorist threat – *Jan-Cedric HANSEN*

United Nations Secretary General Mechanism – *Lionel KOCH*

French interdepertmental CBRNE training center – *Captain Hugues LAURENT*

Inserm Jean Mérieux BSL4 Laboratory : an overview – *Delphine PANNETIER*

Guidance for the security of hazardous materials (CBRNE) in health care facilities – Pepijn VAN DEN BROEK