Medical Countermeasures

MCM-28 *Laurent BELLANGER* - On-field validation of the rapid diagnostic test Ebola eZYSCREEN®

MCM-29 *Alexandra BOURGOIS* - Biological effects of alumina nanoparticles / hydrochloric acid mixtures mimicking combustion aerosols from solid composite propellants on human pulmonary A549 alveolar epithelial cells

MCM-30 *Xavier BRAZZOLOTTO* - Procaryotic expression of human butyrylcholinesterase: a new tool for the development of affordable nerve agents bioscavengers

MCM-31 *André-Guilhem CALAS* - In vivo efficacy assessment of novel uncharged reactivators of NOP-inhibited acetylcholinesterase in Mouse compared to pralidoxime

MCM-32 *Belinda DESRUES* - Effect of anthrax edema toxin on the immune system: analysis at the cellular level

MCM-33 *José DIAS* - Design, synthesis and in vitro evaluation of a promising new class of bifunctional uncharged hybrid reactivators for nerve agent-inhibited human acetylcholinesterase

MCM-34 *Frédéric DUCANCEL* - 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

MCM-35 *Audrey FERRIER-REMBERT* - Modified Vaccinia Lister (MVL), a safe and easy to produce vector for human or veterinary vaccines

MCM-36 *Fabrice GALLAIS* - Development of monoclonal antibodies against Sudan Ebolavirus for detection, diagnostic and therapy

MCM-37 *Aarti GAUTAM* - Systems Biology networks/pathways: comparison at 72 h and 75 days post exposure to Soman in rats

MCM-38 *Sébastien GRAZIANI* - A novel CWA vapor inhalation exposure system for nose-only delivery with rodents

MCM-39 *Cécile HERBRETEAU* - Specific polyclonal F(ab')$_2$ immunoglobulin fragments; in vitro characterization and in vivo effectiveness in post-exposure treatment against Zaire Ebola virus in mice

MCM-40 *Frédéric ISENI* - Structure-based drug design of new compounds targeting the protein-protein interfaces of the vaccinia virus DNA polymerase holoenzyme

MCM-41 *Nina JAFFRE* - Efficiency of multiple administrations of an HI-6 dimethanesulfonate, atropine sulfate and avizafone chlorhydrate combined treatment in Russian VX-intoxicated cynomolgus monkeys

MCM-42 *Ludovic JEAN* - Development of new reactivators of OP-inhibited cholinesterases

MCM-43 *Mark Lawrence JOHNSON* - Risk-Informed Demand for CBRN Medical Countermeasures

MCM-44 *Petr JOST* - Response of Human Lung Cells Exposed to Sulfur Mustard: a Multiparametric Analysis

MCM-45 *Sabrina KALI* - Innovative antiviral strategies targeting different steps of RABV infection

MCM-46 *Laurane LEOST* - Synthesis of Functionalized Chitosan Nanoparticles for Plutonium Pulmonary Decorporation

MCM-47 *Guillaume L'HOSTIS* - Efficiency of phage therapy in an acute murine model of pulmonary infection

MCM-48 *Oksana LOCKRIDGE* - Immunopurification of proteins modified on tyrosine by chlorpyrifos oxon

MCM-49 *Nassim MAHTAL* - High-Throughput Screening of Rac1 modulators as regulators of innate and acquired immunity

MCM-50 *Katharina MARQUART* - Assessment of new medical countermeasures against nerve agent poisoning using an isolated organ approach

MCM-51 *Patrick A. MARTIGNE* - New galenic forms of NR risk antidotes

MCM-52 *Oren MILSTEIN* - Bone Marrow Selective Shielding as an Approach to Protect First Responders from Deterministic and Stochastic Radiation Effects

MCM-53 *Lubica MUCKOVA* - Influence of structure of acetylcholinesterase reactivators on their cytotoxicity

MCM-54 *Aurélie NERVO* - Acetylcholinesterase and respiration: where this essential enzyme is required?

MCM-55 *Laure PLENER* - Quorum quenching lactonase: towards innovative medical countermeasures against bacterial infections

MCM-56 *Benoît ROUBINET* - Hupresin, a new affinity resin to purify butyrylcholinesterase

MCM-57 *Clémence ROUGEAUX* - Early detection of active edema and lethal factors during cutaneous and pulmonary anthrax

MCM-58 *Jozef SABOL* - Quantification of radiological threat and exposure: how much is too much?

MCM-59 *Marine SCHNETTERLE* - Using phenothiazines to inhibit efflux pumps: impact on B. pseudomallei clinical isolats

MCM-60 *Emilie TESSIER* - Integrin CD11c as an emerging biomarker for Anthrax Edema Toxin infection

Protection/Decontamination

PRODEC-01 *Nevine AMER* - Development of an in vitro combined human hair and pig skin model for evaluation of emergency decontamination strategies

PRODEC-02 *Nevine AMER* - In vitro hair and skin decontamination studies evaluating the ladder pipe decontamination system (LPS), dry decontamination and combined dry and LPS decontamination strategies

PRODEC-03 *Richard AMLÔT* - Volunteer trials of a novel improvised dry decontamination protocol for mass casualty incidents as part of the UK's Initial Operational Response

PRODEC-04 *Richard AMLÔT* - Mass casualty decontamination in chemical incidents: outcomes from a series of human volunteer trials

PRODEC-05 *Pascal CHANTON* - Laboratoire CEVIDRA obtains market access for Calixarene cleansing formulation for the treatment of skin contamination by Uranium, Plutonium and Americium

PRODEC-06 *Robert P. CHILCOTT* - Laboratory-based studies of absorbent materials for mass casualty decontamination as part of the UK's Initial Operational Response

PRODEC-07 *David DAUDE* - Formulating enzymes towards broad spectrum decontamination of chemical warfare agents (H, G and V)

PRODEC-08 *Carole DOUGNAC* - Experimental characterization of DEC'POL® decontamination properties (New emergency decontamination mitt) on threats agents simulants

PRODEC-09 *Adam DURRANT* - Optimisation of non-ambulant (clinical) decontamination processes

PRODEC-10 *Eva GRINENVAL* - Can sol-gel materials replace activated carbon?

PRODEC-11 *Miryana HEMADI* - An environmentally friendly approach to extracting specifically uranium from contaminated soils and water

PRODEC-12 *Aurélie JACQUART* - Adaptation of civilian system "Field and Laboratory Emission Cell FLEC®"; for the measurement of CWA vapors released by solid materials after a decontamination process

PRODEC-13 *Jaromy JESSOP* - Emerging Concepts in Decontamination

PRODEC-14 *Joanne LARNER* - Field trial of a putatively optimised process for ladder pipe decontamination of mass casualties

PRODEC-15 *Célia LEPEYTRE* - BioChemGEL-Sys® B&C decontamination of Infrastructures

PRODEC-16 *Devanya MAHALINGAM* - A combined skin and hair model for assessing decontamination systems using human volunteers

PRODEC-17 *Hazem MATAR* - Evaluation of the ladder pipe system for mass casualty decontamination studies: in vitro studies with the chemical warfare agents Sulphur Mustard and VX

PRODEC-18 *Michel PHILIPS* - Design issues and user feedback for Hospital CBRN decontamination unit

PRODEC-19 *Andreia PINHAL* - In vitro skin decontamination effectiveness as a function of contaminant geometry

PRODEC-20 *Andreia PINHAL* - In vitro skin decontamination effectiveness as a function of contamination density

PRODEC-21 *Anne PIRAM* - Assessment of hair contamination by chemical warfare agents and evaluation of common decontamination procedures towards hair

PRODEC-22 *Laetitia POIRIER* - Development of a new animal model for evaluating toxicity and growth disruption: the case of organophosphorus compounds

PRODEC-23 *Benjamin REMY* - Harnessing a versatile lactonase from Sulfolobus solfataricus for health, protection and biodecontamination

PRODEC-24 *Annick ROUL* - Fuller's earth physical chemistry: mechanisms of action

PRODEC-25 *Alicia SALERNO* - Using ceria for skin decontamination of the organophosphorus pesticide Paraoxon: impact of physico-chemical properties of CeO_2 and galenic form on its degradation activity

PRODEC-26 *Alicia SALERNO* - Formulation of Pickering emulsion stabilized by CeO_2, application for skin decontamination of the organophosphorus pesticide Paraoxon

PRODEC-27 *Frank SCHNÜRER* - Metal-organic frameworks for C-protective clothing and respiratory cartridges

PRODEC-28 *Jean-Christophe ZINK* - Decontamination of working dog

PRODEC-29 *Jean-Christophe ZINK* - Decontamination of a small group of people

Detection

DET-26 *Johann BEGHAIN* - PathoTRACK: toward a complete analytical chain of NGS data for the detection and identification of pathogenic organisms

DET-27 *Alain BRY* - Particles sampling for explosives detection with the prototype device SYMOPREP

DET-28 *Clémentine CÔTE* - Hair absorption of organophosphorus nerve agent simulants

DET-29 *Stéphane CRUVEILLER* - High-throughput DNA sequencing and bioinformatics for the detection and identification of pathogenic organisms in complex mixtures

DET-30 *Remco den DULK* - Automated analytical system for sensitive detection of bacterial spores

DET-31 *Robert diTARGIANI* - Development of a Field-Forward Kit Designed to Extract Nerve Agent Breakdown Compounds from Urine and Aqueous Environmental Samples

DET-32 *Jonathan DUMAZERT* - Gadosphere: a Gd-based plastic detector for wide spectrum neutron detection

DET-33 *Michal DYMAK* - Flat detector of toxic aerosols

DET-34 *Fabienne GAS* - An innovative microfluidic qPCR platform for high throughput qPCR testing of bioterrorism agents

DET-35 *Fabienne GAS* - Genetic detection of biothreat agents

DET-36 *Eva-Maria HANSBAUER* - Rapid absolute quantification of abrin toxin and its isoforms in complex matrices by immuno-extraction and high resolution targeted mass spectrometry

DET-37 *Virginie JOUFFRET* - Automatized functional annotation of virulence and resistance factors to complement phylopeptidomics results

DET-38 *Charlotte MAPPA* - Identification and discrimination of bacteria by phylopeptidomics: the Bacillus genus example

DET-39 *Mélissa MARCHANDEAU* - Identification of antimicrobial resistance biomarkers in Burkhodleria pseudomallei based on whole-cells MALDI-TOF mass spectrometry: from surrogates to clinical strains

DET-40 *Pierre R. MARCOUX* - Optical elastic scattering for label-free identification of bacterial pathogens

DET-41 *Vincent MOULIN* - Experimental material discrimination in spectral tomography

DET-42 *Caroline PAULUS* - Multi-energy X-ray detectors to improve air-cargo security

DET-43 *Bertrand PEROT* - Detection of Special Nuclear Materials by Neutron Interrogation

DET-44 *Laurent PHAM VAN* - Development of a novel piezoresistive lever sensor for pathogens detection

DET-45 *Olivier PIBLE* - Mix24X, a reference artificial microbiota to evaluate phylopeptidomics and metaproteomics tools

DET-46 *Oliver PRESLY* - Hazardous Material Identification through Opaque Containers using a Handheld Spatially Offset Raman Spectrometer

DET-47 *Frédéric PROGENT* - Development of Micro- Time-Of-Flight mass spectrometer for Chemical Threat in situ detection

DET-48 *Pierre-Yves RENARD* - Selective and sensitive near-infrared fluorescent probe for non phosphonylated acetylcholinesterase imaging

DET-49 *Jean-Maxime ROUX* - A simple sample preparation device, keystone of a biological threat detection chain

DET-50 *Alix SARDET* - The tagged neutron inspection system of the C-BORD project

DET-51 *Sébastien SCHRAMM* - New method development for the fast identification of toxic chemicals by the analysis of their oxidation products

DET-52 *Viviana SCOGNAMIGLIO* - A whole cell optical bioassay for the detection of chemical warfare agent simulants

DET-53 *Julien SPRUYTTE* - SPIR-Explorer: a Versatile RAD/NuC payload for UAV/UAG

Risk Management