IMI 10th Anniversary Scientific Symposium

Agenda
Day 1
22.10.18

22.10.2018 • Crowne Plaza Le Palace •
Rue Gineste 3 • 1210 Brussels • Belgium

08:30 – 09:00 Registration & welcome coffee

09:00 – 10:00 Opening session

Pierre Meulien, Executive Director, IMI
Jean-Christophe Tellier, Chief Executive Officer and Chairman of the Executive Committee, UCB
Jonathan Knowles, Professor, Founding Chairman of IMI Board

10:00 – 11:00 Stratification towards personalised medicines

10:00 – 10:15 Setting the scene
- Pierre Meulien, Executive Director, IMI

10:15 – 11:00 Presentation of key achievements from IMI projects
- “Using Multi-Scale Genetic, Neuroimaging and Clinical Data for Predicting Alzheimer’s Disease and Reconstruction of Relevant Mechanisms”
  AETIONOMY - Fröhlich Holger, UCB
- “Quantitative PET Imaging - From Research to Clinical Use”
  AMYPAD - Heeman Fiona, VU University medical centre
- “Discovery of biomarkers for glycaemic deterioration before and after the onset of type 2 diabetes: A showcase from the epidemiological studies within the IMI DIRECT Consortium”
  DIRECT - Koivula Robert, University of Oxford

11:00 – 11:30 Coffee break

11:30 – 12:15 Presentation of key achievements from IMI projects
- “Predicting Cognitive Decline through Structural MRI biomarkers: Results from the EMIF-AD Biomarker Discovery Study”
  EPAD - Ingala Silvia, VU Medical Center
- “The EU-AIMS Longitudinal European Autism Project: Examples of novel approaches to biomarker discovery”
  EU-AIMS - Stefan Holiga, F. Hoffmann-La Roche & Loth Eva, King’s College London
- “Biomarker methods to enable stratification of patient populations in clinical trials for neuropathic pain”
  EUROPAIN - Vollert Jan, Imperial College London
“Molecular dissection of colorectal cancer in pre-clinical models identifies biomarkers predicting sensitivity to EGFR inhibitors”
Onco Track - Schütte Moritz, Alacris Theranostics GmbH

“Longitudinal Stratification of Gene Expression Reveals Three SLE Groups of Disease Activity Progression”
PRECISESADS - Toro Daniel, GENYO

12:15 – 13:30 Lunch

13:30 – 14:00 Presentation of key achievements from IMI projects
- “Federating clinical data for biomedical research in type 2 diabetes”
  RHAPSODY - Sparsø Thomas, Novo Nordisk
- “Building handprints of complex diseases – severe asthma as a proof of concept”
  U-BIOPRED and eTRIKS - De Meulder Bertrand, European Institute for Systems Biology and Medicine

14:00 – 14:30 Panel discussion:
- Pamela Tenaerts, Executive Director, Clinical Trial Transformation Initiative
- Raj Long, Deputy Director - Integrated Development, Global Health, Bill & Melinda Gates Foundation
- Martin Hofmann-Apitius, Head of the Department of Bioinformatics, Fraunhofer SCAI
- Maria Beatriz Da Silva Lima, Professor of Pharmacology and Pharmacotoxicology, Lisbon University

14:30 – 15:00 Coffee break

15:00 – 17:15 Patient centric approaches in drug development

15:00 – 15:15 Setting the scene
- Virginie Hivert, Therapeutic Development Director, EURORDIS

15:15 – 16:45 Presentation of key achievements from IMI projects
- “Patient involvement in the IMI-APPROACH project: invaluable insights and key ingredients”
  APPROACH - Hussaarts Leonie, Lygature & Jane Taylor
- “Patient education is a prerequisite for meaningful patient engagement in the life cycle of medicines”
  EUPATI - Bereczky Tamás, Eupati
- “Driving the use of Real World Evidence in healthcare decision making”
  GETREAL - Makady Amr, Zorginstituut Nederland
- “When to consider patient preference information along the medical product lifecycle? An overview of decision points and situations”
  PREFER - Chiara Whichello and Eline van Overbeeke, KU Leuven
- “From development to labelling claim”
  PRO-active - Demeyer Heleen, Uz Gasthuisberg
- “Baseline characteristics of participants of the SPRINTT randomised clinical trial”
  SPRINTT - Riccardo Calvani, Università Cattolica del Sacro Cuore

16:45 – 17:15  Panel discussion:
- Virginie Hivert, Therapeutic Development Director, EURORDIS
- Mary Baker, President, European Brain Council
- Fernand Sauer, Member, Académie National de Pharmacie
- Olivier Arnaud, Senior Director, European Research JDRF

17:15 – 19:15  Poster session

18:00 – 22:00  Networking cocktail
Agenda
Day 2
23.10.18
23.10.2018
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08:30 – 09:00 Registration & welcome coffee

09:00 – 09:15 Introduction
Pierre Meulien, Executive Director, IMI

09:15 – 11:15 Enablers for discovery and development of new drugs

09:15 – 09:30 Setting the scene
- Jan Egebjerg, Senior Director, Neurodegeneration Discovery Biology, Janssen

09:30 – 11:15 Presentation of key achievements from IMI projects
- “An iPSC technology development collaboration – a critical component to enable ADAPTED”
  ADAPTED - Peter Reinhardt, AbbVie & Benjamin Schmid, Bioneer
- “Exploring the potential of lipidoid-polymer hybrid nanoparticles to deliver oligonucleotides to intracellular pharmacological targets”
  COMPACT - Thanki Kaushik, University of Copenhagen
- “Supporting stem cell research with modern data management technologies”
  EBISC - Seltmann Stefanie, Charité Berlin
- “EMIF Catalogue – the bridge between data custodians and biomedical researchers”
  EMIF - Trifan Alina, University of Aveiro
- “HARMONY Platform: using Big Data to fight blood cancers”
  HARMONY - Abáigar-Alvarado Maria, Institute of Biomedical Research of Salamanca
- “Supersaturation as driving force for intestinal absorption resulting in an increased oral bioavailability: case example with posaconazole”
  ORBITO - Bart Hens, KU Leuven
- “Remote Assessment of Disease and Relapse in Major Depressive Disorder (RADAR-MDD): Study protocol”
  RADAR-CNS - Matcham Faith, King’s College London

11:15 – 11:45 Coffee break
11:45 – 12:15  Panel discussion:
- Jan Egebjerg, Senior Director, Neurodegeneration Discovery Biology, Janssen
- Stefan Jaroch, Head External Innovation Technologies, R&D Pharmaceuticals, Bayer AG
- Magali Haas, CEO & President, Cohen Veterans Bioscience
- Heiko Zimmermann, Head of Institute, Fraunhofer-Institut für Biomedizinische Technik IBMT
- Hans-Georg Eichler, Senior medical officer, European Medicines Agency

12:15 – 13:30  Lunch

13:30 – 15:30  Collaborating to fight infections

13:30 – 13:45  Setting the scene
- Rino Rappuoli, Chief Scientist & Head of External Research and Development, GlaxoSmithKline

13:45 – 15:00  Presentation of key achievements from IMI projects
- “EURECA - Substudy of infections due to carbapenem-resistant Enterobacteriacea (CRE) along Europe. Inside COMBACTE network; global information for a global problem”
  COMBACTE-CARE - Paniagua Maria, Hospital Universitario Virgen Macarena
- “A new European network for influenza vaccine effectiveness studies”
  DRIVE - Turunen Topi, FISABIO
- “Field validation of novel diagnostic tools for Ebola virus detection in Sierra Leone”
  EbolaMoDRAD - Colavita Francesca, INMI
- “Modelling the humoral immune response to Ebola vaccine”
  EBOVAC1 - Balelli Irene, Inserm
- “Highly potent heavy chain only antibodies protect against MERS-CoV infection”
  ZAPI - Okba Nisreen, Erasmus Medical Center

15:00 – 15:30  Panel discussion:
- Rino Rappuoli, Chief Scientist & Head of External Research and Development, GlaxoSmithKline
- Raj Long, Deputy Director - Integrated Development, Global Health, Bill & Melinda Gates Foundation
- Seamus O’Brien, R&D Director, Global Antibiotic Research and Development Partnership (GARDP)
- Isabelle Bekeredjian-Ding, Head of the Department of Microbiology, Paul-Ehrlich-Institut
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New targets, tools and pathways

1. “Support Translation Research with High Quality Data and Interactive Visual-analytics”
   eTRIKS - Rege Kavita, University of Luxembourg

2. “Developing a robust evidence base on RSV disease and economic burden using a multi-disciplinary approach”
   RESCEU - Reeves Rachel, the University of Edinburgh

3. “AMYPAD Diagnostic and Patient Management Study (AMYPAD-DPMS): rationale and study design”
   AMYPAD - Altomare Daniele, IRCCS Fatebenefratelli

4. “Network-based modeling of APAP-induced hepatotoxicity using interactomics and transcriptomics data”
   TransQST - Guney Emre, GRIB - IMIM / UPF

5. “Stroke Risk, Bleeding Risk and Anticoagulation in Hospital EHRs”
   Big data @ heart - Bean Daniel, King’s College London & HDR UK

6. “DPP6 as a new biomarker suitable for human islet in vivo imaging”
   INNODIA - Demine Stéphane, ULB Center for Diabetes Research

7. “Identification of Stratified Social-Behavioural Markers in Neuropsychiatric Disorders by using smartphone technology”
   PRISM - Jongs Niels, Rijksuniversiteit Groningen

8. “Drug Evaluation in Guinea Pig Model”
   PreDiCT TB - Lanni Faye, Public Health England

   APPROACH - Van Helvoort Eefje, University Medical Centre Utrecht

10. “In vivo models of Drug-induced interstitial lung disease; tools to study and improve drug safety”
    TRISTAN - Mahmutovic Persson Irma, Lund University

11. “RNA-sequencing of medulloblastoma patient-derived orthotopic xenograft models enables identification of both tumor and microenvironment specific biomarkers”
    ITCC-P4 - Jäger Natalie, DKFZ and KITZ, Heidelberg

12. “Molecular characterization of patient-derived orthotopic xenograft models of paediatric brain tumours”
    ITCC-P4 - Brabetz Sebastian, Hopp Children’s Cancer Center at the NCT Heidelberg (KITZ)
13- “Candidate genes and pathways from ADAPTED Stage I integrative analysis”
ADAPTED - Madrid Márquez Laura, CAEBi Bioinformatica

14- “Increased understanding of AD pathophysiology through novel cerebrospinal fluid markers: results from the EMIF-AD Multimodal Biomarker Discovery study”
EMIF-AD - Bos Isabelle, Maastricht University

15- “Data analytics and bioinformatics to successfully define asthma subphenotypes”
U-BIOPRED - Pavlidis Stelios, Data Science Institute, Imperial College London

16- “Collaborative capacity building: Creating new knowledge, new tools, new collaborative ties and educating young scientist”
K4DD - Sliedrecht Tale, Lygature

17- “Developing a mechanism-based taxonomy of Alzheimer’s and Parkinson’s disease”
AETIONOMY - Golriz Khatami Sepehr, Fraunhofer SCAI

18- “Proteome analyses in colorectal carcinoma reveals major protein alterations upon cancer development and metastasis”
OncoTrack - AzimiAllireza, Uppsala University

19- “Human iPSC-derived cells: a powerful tool for neuropathic pain disease modelling”
NGN-PET - Rutigliano Lucia, Axxam

20- “A new way to monitor Multiple Sclerosis”
RADAR-CNS - Martinis Matteo, San Raffaele Hospital

21- “Discovery of the role of the ELOVL2/docosahexaenoic acid axis in the regulation of insulin secretion and survival of rodent and human pancreatic beta cells”
IMIDIA - Bellini Lara, Université Paris Diderot

22- “Glucagon and gastrointestinal hormones changes after Roux-en-Y gastric bypass: an IMI DIRECT study”
DIRECT - Frau Francesca, Sanofi

23- “Application and optimization of Monocyte Activation Test for testing Tick Borne Encephalitis virus vaccine pyrogenicity”
VAC2VAC - Etna Marilena Paola, istituto Superiore di Sanità

24- “Development of Rift Valley fever virus neutralizing antibodies using bacterial superglues”
ZAPI - Wichgers Schreur Paul, Wageningen Bioveterinary Research

25- “Interim Pharmacokinetic Analysis from the EVADE Phase 2 Clinical Trial of MEDI3902, a Bispecific Monoclonal Antibody Against PcrV and Psl of Pseudomonas aeruginosa”
COMBACTE-MAGNET - Hernandez Ana Catalina, Centre Hospitalier Universitaire de Limoges

26- “Interim Pharmacokinetic Analysis from the SAATELLITE Phase 2 Clinical Trial of MEDI4893, an Extended Half-life Monoclonal Antibody Against Staphylococcus aureus Alpha Toxin”
COMBACTE-NET - Hernandez Ana Catalina, Centre Hospitalier Universitaire de Limoges
27- “Urinary metabolites as potential biomarkers of P. aeruginosa ventilator-associated pneumonia”
RAPP-ID - Jongers Bart, University of Antwerp

28- “Laboratory Analysis workflows within the ASPIRE-ICU study”
COMBACTE-NET and COMBACTE-MAGNET - Timbermont Leen, University of Antwerp

29- “New bio-informatic approach for the analysis of flow cytometry data”
PRECISESADS - Le Lann Lucas, University of Brest

30- “Zebrafish Proteinopathy Models for Target Validation”
IMPrIND - Hubbard Jeffrey, Institut de Recherches Servier

31- “New candidate genes in insulin target tissues: Elov2 as a protective enzyme against glycaemic deterioration?”
RHAPSODY - Lallement Justine, Université Paris Diderot

32- “Integration of models of drug-induced liver injury for risk assessment”
Trans-QST and MIP-DILI - Sison-Young Rowena, University of Liverpool

33- “Isocyanoide Chemistry (IMCR): Promising Technology For Future Drug Discovery And Development”
ELF - Pravin Patil, University Of Groningen

34- “Developing human cellular phenotypic assays for pain”
StemBANCC - Chintawar Satyan, University of Oxford

35- “Non-Canonical Hedgehog Signaling Is a Positive Regulator of the WNT Pathway and Is Required for the Survival of Colon Cancer Stem Cells”
OncoTrack - Regan Joseph, Charité - Universitätsmedizin Berlin

36- “A validated genetics-led system ‘Pi’ enables drug target discovery for immune traits”
ULTRA-DD - Fang Hai, University Of Oxford

37- “Immunobridging approach to assess clinical benefit as the basis for licensure of the monovalent Ebola vaccine”
EBOVAC 1 and 2 - Bockstal Viki, Janssen Vaccines & Prevention

38- “A Bordetella pertussis human challenge model induces immunising colonization in absence of symptoms”
PERISCOPE - Hans de Graaf, University of Southampton

39- “Translational Safety Assessment in Pharma”
eTRANSAFE - Ruud Bueters, Janssen

40- “In vitro antimicrobial activity of tobramycin, colistin, aztreonam and the new antibiotic POL7080 against cystic fibrosis Pseudomonas aeruginosa growing in biofilms”
iABC - Diez-Aguilar Maria, Hospital Universitario Ramón y Cajal-IRyCIS

41- “Comparative assessment of seed extraction methods relevant for the study of Alzheimer disease”
IMPrIND - Delay Charlotte, Janssen Pharmaceuticals
42- “Frequencies of cerebrospinal fluid ATN biomarker profiles and their association with memory function in persons without dementia”
EMIF-AD - Jansen Olin, Maastricht University

From concept to trial

43- “Developing predictive in silico models for liver toxicity endpoints from in vivo histopathology data”
eTOX - Pinto GilKevin, University Pompeu Fabra

44- “Prognostic factors and outcome of multiple myeloma patients enrolled in European clinical trials after a long-term follow-up. A pilot project by multiple myeloma community within HARMONY consortium”
HARMONY - D'Agostino Mattia, University of Turin

45- “Altering disease course before symptom onset: the European Prevention of Alzheimer’s Dementia (EPAD) project (WP4)”
EPAD - Gheorghe Delia, University of Oxford

46- “COMBACTE LAB-Net, a European laboratory network for clinical trials on anti-infectives to combat bacterial resistance”
COMBACTE-NET - Kostyanev Tomislav, University of Antwerp

47- “Tools to collect data on detection and prevalence of carbapenem-resistant Gram-negative bacteria among European laboratories part of the COMBACTE Laboratory network (LAB-Net)”
COMBACTE-CARE and COMBACTE-NET - Kostyanev Tomislav, University of Antwerp

48- “Exploring MMN processing in Autism Spectrum Disorder during the odd-ball task: evidence from the EU-AIMS LEAP cohort”
EU-AIMS - Ahmad Jumana, King’s College London

49- “Novel peptide vaccines against Rift valley fever virus”
ZAPI - Gutjahr Benjamin, Friedrich-Loeffler-Institut FLI

50- “Identifying priority outcomes and understanding meaningful delay in disease progression for Alzheimer’s Disease across the spectrum”
ROADMAP - Ly Amanda, University of Edinburgh

51- “Developmental changes in resting state power spectrum and functional connectivity in autism spectrum disorder”
EU-AIMS - Garces Pilar, Roche

52- “Implementing a Phase II Ebola Vaccine Trial (EBOVAC2) in Burkina Faso”
EBOVAC2 - Houreratou Barry, Centre MURAZ

53- “A systematic review of guidelines for rigour in the design, conduct and analysis of biomedical experiments involving laboratory animals”
EQIPD - Vollert Jan, Imperial College London

54- “A Highly Productive Semi-Automated High Throughput Purification Process”
ELF - Levy Laura Mariana, Taros
   ELF - Hristeva Stanimira, Taros

56- “Determinants of antibody persistence across doses and continents after single-dose rVSV-ZEBOV vaccination: an observational cohort study”
   EBOVAC & EBOPLUS - Santoro Francesco, University of Siena

57- “Transcriptomic analysis of the immune response to the rVSV-ZEBOV Ebola vaccine”
   VSV-EBOVAC - VSV-EBOPLUS - Santoro Francesco, University of Siena

### New clinical and regulatory paradigms

58- “What is responsible antibiotic use? Towards a global definition”
   DRIVE-AB - Monnier Annelie, Radboud University Medical Center & Hasselt University

59- “The added value of quantitative amyloid PET in determining Alzheimer’s Disease (AD) dementia risk: the AMYPAD Prognostic and Natural History Study”
   AMYPAD - Lopes Alves Isadora, VU Medical Center Amsterdam

60- “Towards an adaptive mindset”
   ADAPT SMART - Rohou Solange, Astrazeneca

61- “Regulatory and HTA considerations for disease-modifying drugs in Alzheimer’s disease”
   ROADMAP - O’Rourke Diana, National Institute for Health and Care Excellence (NICE)

62- “Time-to-event case-control designs: An efficacious tool for cohort studies on nosocomial infections when resources are limited”
   COMBACTE - Feifel Jan, Ulm University

63- “European Prevention of Alzheimer’s Dementia (EPAD) Registry for a longitudinal cohort and Alzheimer prevention trials”
   EPAD - Vermunt Lisa, VU University Medical Center

64- “Prioritisation and Intelligent Assessment of the Environmental Risks of Pharmaceuticals”
   iPIE - Wilkinson John, University of York

65- “Alignment of European regulatory and health technology assessments: a review of licensed products for Alzheimer’s Disease”
   ROADMAP - Dekker Marieke, Medicines Evaluation Board (MEB-CBG)

66- “IMI-PROTECT and benefit risk assessment”
   PROTECT - Waddingham Edward, Imperial College London

67- “Managing false-positive Ebola test results in the post-outbreak era: Experiences in the EBOVAC vaccine trial in rural Sierra Leone”
   EBOVAC - Baiden Frank, London School of Hygiene and Tropical Medicine
Patient engagement along the value chain

68- “Characterising and appraising patient preference exploration and elicitation methods”
PREFER - Whichello Chiara, Erasmus University Rotterdam

69- “Prospective data collection on burden of RSV infection in Europe – paving the way for RSV vaccines and therapeutics”
RESCEU - Wildenbeest Joanne G, Wilhelmina Children’s Hospital, University Medical Center Utrecht

70- “Advancing meaningful patient engagement in the life cycle of medicines for better health outcomes”
PARADIGM - Pakarinen Chi, the Synergist

71- “Lessons learned in the recruitment of adolescents and children to the EBOVAC-Salone clinical trial in Sierra Leone”
EBOVAC1 - Shona Lee, EBOVAC Salone, Social Science Team

72- “Bridging the gap between intention and action - Lessons learned from INNODIA’s Patient Advisory Committee”
INNODIA - Soderberg Jeannette, JDRF