# BEST SCIENCE FOR THE MOST NEGLECTED: WHERE DO WE STAND 10 YEARS ON?

## CONFERENCE PROGRAMME

### Opening Session

**Moderator**  
Dr Pierre-Etienne Bost,  
Chair of DNDi Scientific Advisory Committee, formerly  
Institut Pasteur, France

**Opening Addresses**  
Prof. Christian Bréchot,  
President, Institut Pasteur, France

Prof. Marcel Tanner,  
Director, Swiss Tropical and Public Health Institute (Swiss TPH),  
Chair of DNDi Board of Directors, Switzerland

Dr Claire Rieux,  
Vice President, Médecins Sans Frontières, France

Dr Rhona MacDonald,  
Senior Editor, PLOS Medicine, UK

**Keynote Address**  
Prof. Michel Kazatchkine,  
UN Secretary General Special Envoy on HIV/AIDS in Eastern Europe and Central Asia & Senior Fellow, Global Health Program, the Graduate Institute of International and Development Studies, Geneva, Switzerland

### 10 Years of Portfolio Building for Neglected Diseases: A PDP Experience

**Chair**  
Dr Tim Wells,  
Chief Scientific Officer, Medicines for Malaria Venture (MMV), Switzerland

**Overview**  
Dr Yves Champey,  
Consultant, and former Chair of DNDi Board of Directors, France

**Perspectives**  
Prof. Simon Croft,  
Dean, Faculty of Infectious and Tropical Diseases, London School of Tropical Medicine and Hygiene, formerly Director of Research and Development, DNDi, UK

Dr Shing Chang,  
Consultant, and former Director of Research and Development, DNDi, USA

Dr Graeme Bilbe,  
Director of Research and Development, DNDi, Switzerland

### Break

10:45 - 11:15  
Break
BEST SCIENCE FOR THE MOST NEGLECTED: WHERE DO WE STAND 10 YEARS ON?

CONERENCE PROGRAMME

Main Progress and Key Challenges in Drug Discovery for Infectious Diseases in the Past Decade

Chair
Prof. Alan Fairlamb,
Professor of Biochemistry and Wellcome Principal Research Fellow, College of Life Sciences, University of Dundee, UK

Keynote
Prof. Dyann Wirth,
Richard Pearson Strong Professor of Infectious Diseases, Harvard School of Public Health, USA

Panel Discussion
Dr. James McKerrow,
Director, Center for Discovery and Innovation in Parasitic Diseases, University of California, San Francisco USA

Prof. Philippe Sansonetti,
Director, Molecular Microbial Pathogenesis, Institut Pasteur, France

Dr Gerald Spaeth,
Head of Laboratory, Molecular Parasitology and Signaling Unit, Institut Pasteur, France

Dr Nick Cammack,
Senior Vice President and Head of the Tres Cantos Medicines Development Campus at GSK, Spain

Q & A session with the audience
12:45-14:00 Lunch Break

Breakthroughs and Challenges in Clinical Development

Chair
Prof. Nick White,
Professor of Tropical Medicine, Mahidol University, Thailand

Keynote
Dr. Elias Zerhouni,
President, Global R&D, Sanofi, France

Panel Discussion
Dr Lance Gordon,
Director for Neglected Infectious Diseases in the Global Health Program, Bill & Melinda Gates Foundation, USA

Prof. Ogobora Doumbo,
Director, Malaria Research and Training Centre, University of Bamako, Mali

Dr Leonard Sacks,
Associate Director for Clinical Methodology, CDER, Food and Drug Administration (FDA), USA

Dr Jaideep A. Gogtay,
Chief Medical Director, Cipla Ltd, India

Q & A with the audience
15:30-16:00 Break
# The Future of Research on Neglected Diseases

**Chair**

Ms Ellen ’t Hoen,  
Consultant, medicines law and policy, The Netherlands

**Keynote**

Dr Philippe Douste-Blazy,  
Chair of the Executive Board, UNITAID, France

**Panel Discussion**

Dr Charles Clift,  
Senior Consulting Fellow, Centre on Global Health Security,  
Chatham House, UK

Dr Line Matthiessen,  
Head of Infectious Diseases and Public Health Unit, DG Research and Innovation, European Commission, Belgium

Dr Christophe Paquet,  
DTO/SAN Santé et protection sociale, Agence Française du Développement (AFD), France

Dr Joanne Liu,  
International President, Médecins Sans Frontières, Switzerland

Dr Bernard Pécoul,  
Executive Director, DNDi, Switzerland

**Q & A with the audience**

## Closing Session

**Award Ceremony**

**Project of the Year**

**Partnership of the Year**

**Closing Remarks**

Prof. Marcel Tanner,  
Director, Swiss Tropical and Public Health Institute (Swiss TPH),  
Chair DNDi Board of Directors

Representative of the French Government

18:00 **Cocktail**
BEST SCIENCE FOR THE MOST NEGLECTED: WHERE DO WE STAND 10 YEARS ON?

SPEAKERS & CHAIRS

Opening Session

Pierre-Etienne Bost
Chair, DNDi’s Scientific Advisory Committee – France

Dr Pierre-Etienne Bost has held several top R&D management positions in a major global pharmaceutical company (now Sanofi) as well as other management functions in the health and food industry. His experience in medicinal chemistry, drug discovery and development is associated with a track record of: building successful global R&D organizations in the pharmaceutical industry; contributing to the discovery of breakthrough products in various therapeutic areas; moving compounds into clinical evaluation and to the market.

Dr Bost has actively participated in the pre-clinical and clinical development, registration and launch of several major drugs in oncology (TAXOTERE™), infectious (SYNERCID™), cardiovascular (CLEXAN™) and degenerative diseases (RILUZOL™). Former member of the board of Aventis-Pasteur, Dr Bost was, until 2006, the Head of a research unit at Institut Pasteur, France, and since 2009, he is Vice-President of GENETHON. European expert, founding member of the French Academy of technologies, where he is acting as General Delegate, author of various patents and publications, he is also member of the French Council for Science and Technology.

Christian Bréchot
President, Institut Pasteur – France

Dr Christian Bréchot studied molecular biology, virology, and cellular biology at the laboratory of Pierre Tiollais at the Institut Pasteur, and at the Necker Faculty of Medicine. He earned his PhD in biochemistry from the University of Paris VII in 1985. In 1989, he became full professor of Cell Biology and Hepatology and, in 1997, he was appointed head of the clinical department of liver diseases at the Necker-Enfants Malades Hospital. He was in charge of a research unit at the Necker Faculty of Medicine, jointly supported by Inserm (the French national biomedical research agency), Paris Descartes University, and the Institut Pasteur. Dr Bréchot was also head of the National Reference Centre on viral hepatitis from 1998 to 2001.

From 2001 to 2007, Christian Bréchot acted as General Director of Inserm. From 2008, he was appointed as Vice-president in charge of Medical and Scientific affairs of the Institut-Mérieux company. Institut-Mérieux is a holding company which merges the efforts of four companies involved in in vitro diagnostics, preventive and therapeutic vaccines, as well as food safety (bio-Mérieux, Transgene, Merieux Nutrisciences, Advanced Bioscience Laboratory). He is now also involved in the Scientific Direction of the Technological Research Institute BIOASTER on infectious diseases and microbiology, a joint action between Lyon and Paris Institut Pasteur. Dr Bréchot took on the position of President of Institut Pasteur on 1 October 2013.
Marcel Tanner
Director, Swiss Tropical and Public Health Institute, and Chair of DNDi Board of Directors – Switzerland

Professor Marcel Tanner obtained a PhD in medical biology from the University of Basel and a MPH from the University of London. He is Director of the Swiss Tropical and Public Health Institute (formerly the Swiss Tropical Institute) and Professor of Epidemiology and Medical Parasitology at the University of Basel and at the Federal Institute of Technology. Since 1977, his research has ranged from basic research on the cell biology and immunology of malaria, schistosomiasis, trypanosomiasis, and filariasis to epidemiological and public health research on risk assessment, vulnerability, health impact and district health planning. His research, teaching, and health planning expertise are based on long-term experience working in rural and urban areas in Africa (mainly Tanzania, Chad, Burkina Faso and Côte d’Ivoire) and Asia (China, Thailand, Laos). He was co-investigator and coordinator of the first African malaria vaccine trial in 1992 and participated since then in several major intervention trials on malaria (iron supplementation, intermittent preventive treatment) and schistosomiasis. He has published over 400 original research papers as well as numerous book chapters and reviews. Professor Tanner also acts as advisor on communicable diseases research and control, health systems strengthening and capacity building in various national and international agencies/bodies and in boards/committees such as e.g. WHO/STAC-TDR, DNDi, CHNRI, INCLEN-Trust.

Claire Rieux
Vice President, Médecins Sans Frontières – France

Dr Claire Rieux specializes in clinical hematology and is currently the head of the Hémovigilance Unit in a university hospital belonging to the Assistance Publique Hôpitaux de Paris. She holds a Master’s Degree in public health. Dr Rieux conducted several epidemiological studies and participated in clinical trials both in hematology and in infectious diseases. Since the early 2000s, she has carried out field missions with Médecins Sans Frontières (MSF) as a physician and in coordination positions in several countries of Africa and in Indonesia. She worked on a field research project on malnutrition and infections in Niger with Epicentre, an MSF-affiliated NGO specialized in epidemiology and clinical research. From 2008 onwards, she has been elected to the MSF France Board of Directors. She has served as Secretary General, and now as Vice President. Dr Rieux has been involved in the MSF international movement as a member of the International General Assembly and joined the board of MSF Australia in 2012.
Best science for the most neglected: Where do we stand 10 years on?

Speakers & Chairs

Rhona MacDonald
Senior Editor, PLOS Medicine – UK

From her home-base in Scotland, Dr Rhona MacDonald (MB ChB, MRCGP, MPH, DCH, DRCOG) joined PLOS Medicine as part-time senior editor in 2013 after working for PLOS Medicine as a freelance editor for three years. She has previously worked as a senior editor at the BMJ and The Lancet, and continues to work as a freelance consultant with the World Health Organization. Dr MacDonald graduated in Medicine from Aberdeen University in 1992 and has worked in the NHS as a specialist in family practice and public health with a special interest in obstetrics and paediatrics. She has also worked in several low- and middle-income countries and has worked for the humanitarian organization Médecins Sans Frontières, particularly with the Access to Essential Medicines Campaign, and also with Oxfam. Dr MacDonald is also currently the volunteer Executive Director of the international medical charity Maternal & Child Health Advocacy International (MCAI), which works to strengthen emergency healthcare systems for babies, children, and pregnant women in low-income countries, and is also a non-executive director of NHS Highland.

Michel Kazatchkine
UN Secretary General Special Envoy on HIV/AIDS in Eastern Europe and Central Asia & Senior Fellow, Global Health Program, the Graduate Institute of International and Development Studies – Switzerland

Professor Kazatchkine attended medical school at Necker-Enfants-Malades in Paris, studied immunology at the Institut Pasteur and completed postdoctoral fellowships at St Mary’s Hospital in London and Harvard Medical School. Since 1984, he has been Professor of Medicine at the Université René Descartes in Paris. From 1990 to 2005, he was Head of the Department of Clinical Immunology at the Hôpital Européen Georges Pompidou and from 1995 to 2005 was a Director of Research at the Institut National de la Santé et de la Recherche Médicale (INSERM). During his academic carrier, Dr Kazatchkine has produced more than 500 research papers and has served on numerous editorial boards. From 1998 to 2005, he was director of the French National Research Agency (ANRS), the world’s second largest AIDS research programme. From 2005 to 2007, Professor Kazatchkine was France’s global ambassador for HIV/AIDS and transmissible diseases. As Ambassador, he championed France’s contributions to achieving the Millennium Development Goals and the establishment of UNITAID. In 2007, he was appointed as the Executive Director of the Global Fund and served in this position until March 2012. In July 2012, he was appointed as the UN Secretary General’s Special Envoy on HIV/AIDS in Eastern Europe and Central Asia. Professor Kazatchkine is also a Senior Fellow with the Global Health Program of the Graduate Institute for International and Development Studies in Geneva, a member of the Global Commission on Drug Policy and serves as Chair of the Board of the Robert Carr Civil Society Networks Fund.
10 Years of Portfolio Building for Neglected Diseases: A PDP Experience

Timothy Wells
Chief Scientific Officer, Medicines for Malaria Venture (MMV) – Switzerland

Dr Timothy Wells has been the Chief Scientific Officer of Medicines for Malaria Venture (MMV) based in Geneva since 2007. Under his leadership the MMV team has transformed the pipeline of malaria medicines: including registration of four new medicines, using translational medicine to accelerate clinical development, and driving open source models of drug discovery. Before joining MMV, he had over 20 years experience in drug discovery and development. From 1998 to 2007 he worked for the Swiss biotechnology company Serono, and was worldwide Head of Research. Prior to that he worked for Glaxo’s Institute for Molecular Biology in Geneva, where worked mainly on cytokine biology. He has 200 publications across a wide variety of fields. His PhD is in Chemistry from the University of London, and he has an ScD degree in Biology from Cambridge, UK. He is a fellow of the Royal Society of Chemistry and the Academy of Medical Sciences.

Medicines for Malaria Venture is a Geneva based Product Development Partnership, with the objective to Discover Develop and Deliver the next generation of drugs to not only treat Malaria, but to support the eventual eradication of the disease.

Yves Champey
Consultant, and former Chair of DNDi Board of Directors – France

Former chair of DNDi Board of Directors (2003-2007), Dr Yves Champey is a physician with over 40 years experience in the pharmaceutical industry. He served as Medical and Scientific Director, and then as Senior Vice President, International Drug Development, at Rhône-Poulenc (1995-1997).

Dr Champey is founder of ITEEC and a consultant on drug R&D for the pharmaceutical and health biotechnology industries. He is Advisor to the Director General of Evry Genopole, a French national project for the development of biotechnology activities, and CEO of Genopole 1er Jour, a private seed fund established by Genopole d’Évry.

He is a former member of Rhône-Poulenc Pharma R&D’s Board of Directors; he was General Secretary, and later President, of the French Association of Pharmaceutical Physicians, and Founder and President of the Rhône-Poulenc Rorer Foundation. Dr Champey was also a member of the Inter-Ministerial Mission on Public Research and Drug Innovation Research.
**BEST SCIENCE FOR THE MOST NEGLECTED: WHERE DO WE STAND 10 YEARS ON?**

**SPEAKERS & CHAIRS**

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**Simon Croft**  
*Dean, Faculty of Infectious and Tropical Diseases, London School of Tropical Medicine and Hygiene, formerly Director of Research and Development, DNDi – UK*

Simon Croft is Professor of Parasitology and Head of the Faculty of Infectious and Tropical Diseases at the London School of Hygiene & Tropical Medicine. He trained at the Liverpool School of Tropical Medicine and undertook post-doctoral fellowships on drug mechanisms and the transmission of trypanosomiasis. His expertise and knowledge on antimicrobial chemotherapy was developed while working for five years at the Wellcome Research Laboratories, Beckenham, UK in the 1980s.

Following his return to academia, he focused his research on the identification and evaluation of novel drugs and formulations for the treatment of leishmaniasis, malaria, human African trypanosomiasis and Chagas disease. This research included projects on miltefosine, AmBisome, and topical paromomycin, all of which reached clinical trials for the treatment of leishmaniasis. Current research interests include drug-immune response interactions and PK/PD relationships. From 2004 to 2007 Professor Croft was the first R&D Director of the Drugs for Neglected Diseases initiative (DNDi).

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**Shing Chang**  
*Consultant, and former Director of Research and Development, DNDi – USA*

Dr Shing Chang, before his term as R&D Director of DNDi from 2007 to 2012, served as Senior Vice President of Drug Discovery and Chief Scientific Officer at ICOS Corporation and held various management positions at Abbott Laboratories in diagnostics and pharmaceutical research, including seven years as Divisional Vice President, Infectious Disease Research, in the global pharmaceutical research and development division. He was Vice President, Preclinical and Development at Cetus Corporation after joining initially as one of its first molecular biologists.

Dr Chang completed postdoctoral fellowships at the University of Wisconsin and Stanford University. He received his PhD in Molecular Biology and Biochemistry from the University of California, Santa Barbara, and his BS in Biology from Fu-Jen Catholic University in Taiwan. He had the overall responsibility of building DNDi’s project portfolio and advancing the discovery and development of new treatments for neglected diseases during his tenure at DNDi. Dr Chang currently works as a consultant.
Graeme Bilbe
Director of Research and Development, DNDi – Switzerland

Prior to joining DNDi as Director of Research and Development in June 2012, Dr Bilbe was Global Head of Neuroscience Discovery at Novartis tasked with discovery and early development of novel treatments for brain diseases. He served in several management positions at Novartis including the Novartis Institutes for Biomedical Research Leadership Team, Head of Research for the Neuroscience Franchise, which brought two innovative drugs, Exelon patch for Alzheimer’s disease and Gilenya for multiple sclerosis, to the fruition. He also chaired the Neuroscience Disease Area Decision Board, which built a robust pipeline of projects from early discovery through to proof-of-concept clinical testing and Phase IIb trials. He led the scientists who discovered and developed AFQ056, Mavoglurant, a metabotropic glutamate receptor 5 antagonist, which demonstrated early clinical efficacy in L-DOPA-induced dyskinesias in Parkinson’s disease and also improved symptoms in fragile X mental retardation syndrome patients.

Dr Bilbe completed post-doctoral fellowships at the Zentrum for Molecular Biology in Heidelberg and the Imperial College London. He received his PhD in Biochemistry from the University of London, Imperial College and his BSc in Zoology and Biochemistry from the University of Nottingham.

Main Progress and Key Challenges in Drug Discovery for Infectious Diseases in the Past Decade

Alan Fairlamb
Professor of Biochemistry and Wellcome Principal Research Fellow, College of Life Sciences, University of Dundee – UK

From 1996 Professor Alan Fairlamb has been a Wellcome Principal Research Fellow at Dundee. He obtained degrees in Medicine and a PhD in Biochemistry at the University of Edinburgh (1965-1975). His postdoctoral studies on trypanosomatid and malaria parasites covered a wide range of topics at the University of Amsterdam, the University of Edinburgh, the London School of Hygiene & Tropical Medicine and the Rockefeller University. He has published widely on mode of drug action; mechanisms of drug resistance; chemical and genetic validation of novel drug targets; and drug discovery against parasitic diseases. His major research achievements include the discovery of trypanothione, implicated in the mode of action of several drugs for African trypanosomiasis, Chagas’ disease and leishmaniasis. Recently, his team identified fexinidazole as a potential new treatment for visceral leishmaniasis. Based on these findings, DNDi is now planning a Phase II proof-of-concept clinical trial of fexinidazole against kala-azar in Africa.

Over the past 25 years he has served as a scientific advisor to the World Health Organization, Wellcome Trust, Medical Research Council (UK), Drugs for Neglected Diseases initiative and the Tres Cantos Open Lab Foundation. Together with Professor Mike Ferguson and colleagues at Dundee, he played a pivotal role in establishing the Drug Discovery Unit in Dundee. He has been elected to fellowship of the Linnean Society, the Royal Society of Edinburgh, the Academy of Medical Sciences and the Society of Biology. He was made a CBE in the Queen’s New Year’s Honours 2005, for services to medical science.
Best Science for the Most Neglected: Where Do We Stand 10 Years On?

Speakers & Chairs

Dyann Wirth
Richard Pearson Strong Professor of Infectious Diseases, Harvard School of Public Health – USA

Professor Dyann Wirth has been a major leader in the area of malaria research. Her work has provided completely new insight into how the malaria parasite has evolved, specifically in the areas of population biology, drug resistance, and antigenicity. The Wirth laboratory blends the scientific environments of the Harvard School of Public Health, the Broad Institute, and collaborators from around the globe to create a unique malaria research and training network that brings together scientists with expertise in molecular biology, genetics, genomics, population genetics, chemistry, cell biology, epidemiology, computational biology, biostatistics, and leading clinicians in infectious diseases and pathology. Using this approach, the Wirth group is working to understand the mechanisms of drug resistance in Plasmodium falciparum, the major human malaria parasite.

Leveraging the genomic tools of the human genomic project, the group has applied state of the art technologies and novel approaches to better understand the fundamental biology of the malaria parasite and mechanisms of drug resistance. The group’s current efforts seek to determine both the number and identity of genes expressed by the parasite in response to drug treatment and to evaluate the role of these genes for parasite survival. The long-term goal of this work is to understand basic molecular mechanisms in protozoan parasites with the goal of discovering and applying preventive and therapeutic interventions against infection. Professor Wirth’s research activities are made possible through collaborative research partnerships with investigators, universities, and clinical centers in Africa, Asia, and South America.

James McKerrow
Director, Center for Discovery and Innovation in Parasitic Diseases – University of California, San Francisco – USA

Dr James McKerrow leads a consortium of academic and industry scientists dedicated to the discovery and development of new drugs for neglected tropical diseases (NTDs). This consortium, the Center for Discovery and Innovation in Parasitic Diseases, is focused on drug discovery and development through Phase I clinical trials. The Center pioneered the development of high-throughput screening assays for seven neglected diseases, ranging from single-cell protozoa like Trypanosoma brucei and Trypanosoma cruzi, to complex multicellular helminths (worms) such as Schistosoma and Brugia. Over 30 companies have shared compound libraries with the Center. Many of the core leaders in the Center are former industry scientists with experience in drug development. The Center has close ties to SRI International using NIH contracts for preclinical drug testing, formulation, and manufacture. The Center includes expertise in structure-based drug design, encompassing both computational approaches and structure-guided medicinal chemistry, and maintains animal models of NTDs for proof of concept studies. Among its accomplishments, the Center discovered and developed a drug for Chagas disease through a successful pre-IND meeting with the FDA. The Center has also received Orphan-Drug Designation from the FDA for two drugs targeting NTDs in a ‘repurposing’ screening campaign.

Dr McKerrow is also Founder and CEO of Demeter Pharmaceuticals, a non-profit company focusing on acquisition and screening of the largest marine natural products library in the United States. Dr McKerrow received his BSc in both Chemistry and Biology at Haverford College, followed by a PhD in Biochemistry from the University of California, San Diego. Before embarking on postdoctoral training, he received an MD from the State University of New York, and did postgraduate training in Internal Medicine and Pathology. He is the recipient of numerous awards including the Gregor Mendel Honorary Medal.
Philippe Sansonetti  
Director, Molecular Microbial Pathogenesis, Institut Pasteur, France

Professor Philippe Sansonetti is Distinguished Professor at the Institut Pasteur, where he directs the Molecular Microbial Pathogenesis Unit and INSERM Unit 786. He received his MD degree in 1979 from the University Pierre et Marie Curie-Paris 6 and then conducted postdoctoral research in the Department of Enteric Infections at the Walter Reed Army Institute of Research in the United States. Returning to France, he began work at the Institut Pasteur, becoming Professor in 1994. In 2000, he also became an International Research Scholar of the Howard Hughes Medical Institute and since 2008 holds the Chair of Microbiology and Infectious Diseases at the Collège de France. His research concerns the molecular and genetic bases of bacterial pathogenesis as well as in the molecular mechanisms of gut homeostasis and pathology in the presence of bacteria. With his team he has also developed the first candidate live attenuated vaccine against shigellosis, currently in clinical trials.

Prof. Sansonetti is a member of the French Academy of Sciences and a foreign member of the German Academy of Sciences Leopoldina and of the US National Academy of Sciences. He is a Chevalier de la Légion d’Honneur and a Commandeur de l’Ordre National du Mérite. Among many other awards, he received the Louis-Jeantet prize of Medicine, the Robert Koch Prize in 1997 and the Grand Prix de l’INSERM in 2012.

Gerald Spaeth  
Head of Laboratory and Head of the Molecular Parasitology and Signalling Unit, Institut Pasteur – France

Dr Gerald Spaeth obtained his PhD at University Paris 7 in 1997, carrying out his technical work at the Institut Pasteur in the laboratory of Dr Mary Weiss. He then joined the laboratory of Dr Stephen Beverley at the Washington University Medical School in St Louis, USA, for his postdoctoral research. He obtained his first faculty appointment in 2001 at the New York University Medical School, before returning to the Institut Pasteur in 2005 on the G5 and INSERM Avenir programmes.

Dr Spaeth was Scientific Director of the FP7 LEISHDRUG consortium, and currently coordinates the LeishRIIP network and a national consortium on anti-leishmanial drug development, ANR-TRANSLEISH. The main research projects conducted by the Unit apply genetic and proteomic methods to identify Leishmania-signalling pathways implicated in parasite pathogenicity, and to validate components of these pathways as potential target molecules for the development of novel anti-leishmanial strategies.
Nick Cammack
Senior Vice President and Head of the Tres Cantos Medicines Development Campus at GSK – Spain

Nick Cammack, SDr Nick Cammack is Senior Vice-President and Head, Medicines Development Campus for Diseases of the Developing World at GSK, Tres Cantos, Spain, where he is responsible for the discovery and development of medicines to treat neglected diseases including malaria, tuberculosis, Chagas disease, and leishmaniasis. Dr Cammack has led the establishment and implementation of the Tres Cantos Open Lab Foundation – a not-for-profit foundation that supports academic scientists to visit GSK in Spain to pursue their own drug discovery ideas, taking advantage of the expertise and facilities available there. This is a first for the Pharma industry and is widely viewed as a bold, innovative step in neglected tropical disease drug discovery. Prior to joining GSK, he was Global Head of the Virology Disease Biology Area at Hoffmann La Roche, USA, where he was instrumental in the initiation and implementation of many external partnerships, including the three-way Roche-Pharmasset-InterMune partnership, the first to conduct and demonstrate antiviral activity of an interferon-free combination of two small molecules for the treatment of Hepatitis C. He has also contributed to the discovery and development of three anti-HIV medicines and whilst at Roche in the UK, where he was Head of the HIV Disease Area. There he led the Roche-Trimeris Virology Team, resulting in the successful launch of the novel anti-HIV medicine, Fuzeon. He underwent his academic training at Leeds University and held an MRC PhD Fellowship at the London School of Hygiene and Tropical Medicine.

Breakthroughs and Challenges in Clinical Development

Nick White
Professor of Tropical Medicine, Mahidol University – Thailand

Professor Nick White was, from 1986 to 2001, Director of the Wellcome Trust-Mahidol University, Oxford Tropical Medicine Research Programme, at Mahidol University in Thailand. In 1991 he set up the Wellcome Trust Clinical Research Unit, in the Hospital for Tropical Diseases, Ho Chi Minh City, Viet Nam and in 1999 the Wellcome Trust-Mahosot-Oxford collaboration in Vientiane, Lao PDR. He is Professor of Tropical Medicine at Mahidol University and Oxford University. Professor White has led research on the pathophysiology and treatment of several tropical diseases including melioidosis, typhoid, dengue, diphtheria, cryptococcal meningitis, penicilliosis, and beri-beri, while his main research interest has been malaria. His work has focused particularly on the clinical pharmacology of antimalarial drugs, the pathophysiology and treatment of severe malaria, malaria in pregnancy, and Plasmodium vivax infections.

His work with The Wellcome Trust led to a revision in the dosage regimens for quinine and chloroquine in severe malaria. Later he led the largest randomized controlled trials conducted in severe malaria which showed marked reductions in mortality with parenteral artesunate. These led to the global recommendation that quinine should be replaced by artesunate. Research conducted by the research collaboration in Thailand led to the introduction and development of artemisinin combination treatment (ACT), and has led to current dose regimens for all the currently recommended ACTs. Professor White has published over 800 scientific papers mainly on malaria, and sits on the international advisory or editorial boards of scientific journals including The Lancet and PLoS Medicine. He has served on many WHO malaria committees and since 2004 he has co-chaired the committee responsible for developing the Malaria Treatment Guidelines.
Elias Zerhouni
President, Global Research & Development, Sanofi – France

Elias Zerhouni, MD, is the President, Global Research & Development, and a member of the Executive Committee for Sanofi. His academic career was spent at the renowned Johns Hopkins University and Hospital, where he was Professor of Radiology and Biomedical engineering and senior adviser for Johns Hopkins Medicine. He served as Chair of the Russell H. Morgan Department of Radiology and Radiological Sciences, Vice Dean for Research and Executive Vice Dean of the School of Medicine from 1996 to 2002, before his appointment as Director of the National Institutes of Health from 2002 to 2008. In that position, he oversaw the NIH’s 27 Institutes and Centers with more than 18,000 employees and a budget of $29.5 billion (2008). In November 2009, President Obama appointed Dr Zerhouni as one of the first presidential US science envoys. Dr Zerhouni has founded or co-founded five start-up companies, authored more than 200 publications and holds eight patents and a number of prominent positions on several Boards, including most recently, the board of the Lasker Foundation and of the Transcelerate BioPharma Inc. He is also a member of the Institute of Medicine of the US National Academy of Sciences, received the prestigious Legion of Honor medal from the French National Order in 2008, and was elected in 2010 as a member of the French Academy of Medicine and appointed as Chair of Innovation at the College de France in 2011.

Lance Gordon
Director for Neglected Infectious Diseases in the Global Health Program, Bill and Melinda Gates Foundation – USA

Dr Lance Gordon, Director for Neglected Infectious Diseases in the Global Health Program of the Bill and Melinda Gates Foundation, leads the effort to reduce the burden of selected infectious diseases on the world’s poorest people through effective control, elimination, or eradication. The neglected infectious disease (NID) strategy encompasses a set of 17 disease initiatives selected based on disease burden and the opportunity to achieve transformational change through partnerships with others. Dr Gordon has over 30 years of experience in the vaccine and pharmaceutical industry, contributing to the development of vaccines and drugs. He was the inventor and developer of the first bacterial conjugate vaccine to receive FDA and European approval. He received his PhD in Biomedical Science, Immunology from the University of Connecticut and completed his postdoctoral fellowship in the Division of Allergy and Immunology, Washington University Medical School, St Louis. Dr Gordon previously served as CEO and a member of the Board of Directors of three publically traded vaccine companies, VaxGen, GraVax, and North American Vaccines.
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SPEAKERS & CHAIRS

Ogobora Doumbo
Director, Malaria Research and Training Centre, University of Bamako – Mali

Professor Ogobara Doumbo is the Director of the Malaria Research and Training Center and Chairman of the Department of Epidemiology of Parasitic Diseases at the University of Bamako, Mali. His interests are in the clinical, epidemiological, and immunological aspects of malaria. Professor Doumbo has played a prominent role in creating and guiding the international Multilateral Initiative on Malaria (MIM), established in 1997 to reinforce collaborative research and training capacity in malaria-endemic countries in Africa.

Leonard Sacks
Associate Director for Clinical Methodology, CDER, Food and Drug Administration (FDA) – USA

Dr Leonard Sacks received his medical education in South Africa. In 1987, he moved to the United States, where he completed fellowships in immunopathology and infectious diseases. After working five years as a clinical attending physician at the Veterans Affairs Hospital in Washington DC and three years as a service chief at Sizwe Hospital (a tropical and infectious disease referral hospital in Johannesburg, South Africa), he joined the Division of Special Pathogens and Transplant Products at the US Food and Drug Administration (FDA) in 1998. As a medical reviewer and subsequent team leader, Dr Sacks was extensively involved in the development and review of new anti-infective drugs. In 2008 he accepted a position in the Office of Critical Path Programs at FDA, where he served as Acting Director. Dr Sacks is currently the Associate Director for Clinical Methodology in the Center for Drug Evaluation and Research’s Office of Medical Policy at FDA. He maintains a special interest in tuberculosis and other tropical diseases and has presented on these topics as well as published a variety of material. In addition, Dr Sacks is board certified in internal medicine and infectious diseases and holds an academic appointment as Associate Clinical Professor of Medicine at George Washington University, USA.
Jaideep A. Gogtay  
Chief Medical Director, Cipla Ltd – India

Dr Jaideep A. Gogtay completed his medical graduation (MBBS) from Grant Medical College and Sir JJ Group of Hospitals in Mumbai, India. He then completed his MD, in Pharmacology from Seth GS Medical College and KEM Hospital. During his post-graduate days, he worked as a lecturer in pharmacology. Since 1994 he has been working with Cipla Ltd and is currently Medical Director. He has closely been involved in the development and introduction of several drugs in various therapeutic fields particularly HIV/AIDS, infectious diseases, and respiratory diseases.

He has worked on several clinical trials in the field of asthma and COPD and infectious diseases, and was involved in setting up the Chest Research Foundation (CRF), which is now an independent research centre dedicated to conducting research in the field of respiratory medicine.

Dr Gogtay has participated and spoken at several national and international forums and has been actively involved in educational activities. He was a member of the Association of Physicians of India guidelines 2005 on ‘Antiretroviral Therapy’.

The Future of Research on Neglected Diseases

Ellen ‘t Hoen  
Consultant, medicines law and policy – The Netherlands

Ellen ‘t Hoen’s area of expertise is access to medicines, innovation, and intellectual property. Her most recent achievement is the establishment, in 2010, of the Medicines Patent Pool (MPP) to accelerate the availability of low-cost HIV treatments in developing countries through patent licensing. She served the MPP as Executive Director 2012, and remains an advisor. She is a member of the World Health Organization’s Expert Advisory Panel on Drug Policies and Management, a member of the advisory board of Universities Allied for Essential Medicines (UAEM), and a member of the editorial board of the Journal for Public Health Policy. From 1999 until 2009, Ms ‘t Hoen was the Director of Policy and Advocacy at Médecins sans Frontières’ (MSF) Campaign for Access to Essential Medicines. In 2008, also she became a visiting research fellow at the University of Amsterdam, where she authored the book The Global Politics of Pharmaceutical Monopoly Power. Drug patents, access, innovation and the application of the WTO Doha Declaration on TRIPS and Public Health.

Earlier in her career, in the early 1980s, she co-founded DES-Action The Netherlands, an advocacy group of women exposed to the drug diethylstilbestrol (DES). She won several awards for her work on the effects of exposure to DES in the 1980s and 1990s, including the Harriet Freezerring award in 1989. In the 1990s, she worked for Health Action International, La revue Prescrire and the International Society of Drug Bulletins. In 2005, 2006, 2010, and 2011 she was listed as one of the 50 most influential people in intellectual property in the world by the journal Managing Intellectual Property.
Best Science for the Most Neglected: Where Do We Stand 10 Years On?

Speakers & Chairs

Philippe Douste-Blazy
Chair of the Executive Board, UNITAID – France

A pioneer in the innovative financing movement, Dr Philippe Douste-Blazy is currently Special Advisor to the Secretary General of the United Nations on Innovative Finance for Development, with the rank of Under Secretary General. Dr Douste-Blazy is widely regarded as one of the world’s foremost experts on innovative financing and one of the leaders of the Financial Transaction Tax (FTT) for development. He founded, at a ministerial level, the Leading Group on Solidarity Levies to Fund Development in February 2006 at the Paris Conference on Innovative Development Financing Mechanisms and has served as Special Advisor to the ‘High Level Taskforce on Innovative International Financing for Health Systems’. He has been instrumental in the adoption of the airline ticket levy by ten countries, including seven in Africa, where funds are collected via a very small levy on airline tickets paid by purchasers. In October 2006, he was elected Chair of the Board of UNITAID, a multi-lateral global health initiative to fight AIDS, tuberculosis and malaria among the world’s most vulnerable populations. UNITAID is based at the World Health Organization Headquarters in Geneva, Switzerland.

Dr Philippe Douste-Blazy has held several ministerial positions in his native France, including Minister of Health (1993-1995), Minister of Culture and Communication (1995-1997), Minister for Solidarity, Health and Family (2004-2005), and Minister of Foreign Affairs (2005-2007). Prior to embracing policy initiatives, Dr Douste-Blazy was a practising cardiologist and Professor of Public Health at Toulouse University in France.

Charles Clift
Senior Consulting Fellow, Centre on Global Health Security, Chatham House – UK

Dr Charles Clift is an economist who spent much of his career at the UK Department for International Development, latterly as a senior adviser on access to medicines. He has specialized in the relationship between intellectual property rights and access to medicines in developing countries. He was previously head of the secretariat for the UK Commission on Intellectual Property Rights [2001-2], WHO’s Commission on Intellectual Property Rights, Innovation and Public Health (2004-6) and was the principal author of the report of WHO’s Consultative Expert Working Group on Research and Development: Financing and Coordination (2011-12).

He is currently a Senior Consulting Fellow in the Centre on Global Health Security at Chatham House. At Chatham House he is responsible for supporting the Centre’s Working Groups on Governance and Financing which aim to identify sustainable methods for improving global health security and access to health care and to influence international and national policymakers, in particular in relation to the post-2015 sustainable development goals. He also leads on the Centre’s programme on antimicrobial resistance. Recent publications include The Role of the World Health Organization in the International System and Is Universal Health Coverage Good for Health? Universal Health Coverage and the Post-2015 Development Agenda. He is also chair of the Medicines Patent Pool (MPP) Foundation.
Line Matthiessen  
**Head of Infectious Diseases and Public Health Unit, DG Research and Innovation, European Commission – Belgium**

Dr Line Matthiessen leads the Unit responsible for Infectious Diseases and Public Health in the Directorate-General for Research and Innovation. The Unit promotes and supports EU research and innovation activities in the area of global health issues with emphasis on HIV/AIDS, malaria and tuberculosis, emerging epidemics, neglected infectious diseases, and antimicrobial drug resistance, as well as activities in public health and health systems research. The Unit also supports the implementation of the European and Developing Countries Clinical Trials Partnership (EDCTP). She was Head of Unit for horizontal aspects and coordination in the Directorate for Biotechnologies, Agriculture and Food Research from 2007 to 2010.

Dr Matthiessen joined the European Commission in 1992. She has been responsible for strategic and policy issues in biotechnology. She held the position as principal scientific officer responsible for research in Neurosciences for several years. She has also been scientific officer in the area of Somatic gene therapy, Animal cell technology and *in vitro* testing as alternatives to animal experiments. Dr Line Matthiessen was trained as an MD at the University of Odense, Denmark, and received her PhD in Neurosciences from the University of Paris VI, France in 1993.

Christophe Paquet  
**DTO/SAN Santé et protection sociale, Agence Française du Développement (AFD) – France**

Dr Christophe Paquet carried out several humanitarian missions in Central America, Thailand, and Sudan with Médecins sans Frontières (MSF), following his medical degree in France and his public health studies in the USA. Specializing in the epidemiology of infectious and tropical diseases, Dr Paquet took part in the creation of Epicentre, an MSF research group in epidemiology which is a Collaborating Centre of WHO.

Dr Paquet served as General Director of Epicentre until 1999. He then joined the French Institute for Public Health Surveillance, where he led the International and Tropical Department, all the while participating in WHO international missions during epidemics such as that of the SARS in 2003. In 2007, he joined the Agence française de développement (AFD), where he held, for six years, the function of Head of Projects within the Division of Health and Social Protection, before taking on the position of Head of Division in 2013.
BEST SCIENCE FOR THE MOST NEGLECTED: WHERE DO WE STAND 10 YEARS ON?

SPEAKERS & CHAIRS

**Joanne Liu**  
International President, Médecins Sans Frontières – Switzerland

Dr Joanne Liu is International President of MSF since 1 October 2013. Her time with MSF started in 1996, when she worked with Malian refugees in Mauritania. Since then, she has provided support after the tsunami in Indonesia, assisted people affected by the earthquake and cholera epidemic in Haiti, and worked with Somali refugees in Kenya. She also helped develop one of the first programmes offering comprehensive medical care for survivors of sexual violence in the Republic of Congo. She has worked in many conflict zones, including in Palestine, Central African Republic, and Sudan’s Darfur region.

Dr Liu trained at McGill University School of Medicine, specializing in pediatrics at Montreal’s Sainte-Justine Hospital. She has a fellowship in pediatric emergency medicine from New York University School of Medicine, and an International Master’s in Health Leadership from McGill University. She is an associate professor at the Université de Montréal and has also taught at Fudan University in Shanghai. Dr Liu helped create the telmedicine project, which connects MSF physicians in 150 remote sites with a pool of more than 300 medical specialists across the globe. In 2013, she received the Royal College of Physicians and Surgeons of Canada’s Teasdale-Corti Humanitarian Award.

**Bernard Pécoul**  
Executive Director, DNDi – Switzerland

Dr Bernard Pécoul has led DNDi (Drugs for Neglected Diseases initiative) since its foundation in 2003. Under his guidance, DNDi – a not-for-profit research and development organization – and its partners have built the largest-ever R&D portfolio for kinetoplastid diseases (leishmaniasis, sleeping sickness, and Chagas disease) as well as developing treatments for malaria. In 2011, DNDi extended the scope of its portfolio to include specific helminth infections and pediatric HIV. Since its inception, DNDi has delivered six new treatments through partnerships with public and private organizations worldwide, and aims to deliver a total of 11 to 13 new field-adapted treatments for neglected diseases by 2018. Prior to DNDi, Dr Pécoul was Director of the Médecins Sans Frontières (MSF) Campaign for Access to Essential Medicines from 1998 to 2003, a position he took on after that of Executive Director of MSF-France. While working with MSF, Dr Pécoul carried out field missions in Africa, Latin America, and Asia. In 1988, he co-founded Epicentre, an MSF-affiliated NGO specialized in epidemiology. After obtaining his medical degree at the University of Clermont-Ferrand, France, Dr Pécoul earned a master’s degree in public health at Tulane University, USA. In 2012, he was awarded an honorary Doctor of Laws Degree by the University of Dundee, UK. Bernard Pécoul is member of the Joint Coordination Board of the Special Programme for Tropical Disease Research (WHO/TDR) and a board member of UNITAID’s Medicines Patent Pool (MPP) Initiative.
BEST SCIENCE FOR THE MOST NEGLECTED:
WHERE DO WE STAND 10 YEARS ON?

NOTES
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DNDi
Drugs for Neglected Diseases initiative

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