<u>Development of Non-Traditional Therapies for Bacterial Infections; Public Workshop—August 21-22, 2018</u>

Speakers and Panelists

Paul Ambrose, Pharm.D.

President Institute for Clinical Pharmacodynamics, Inc. New York, NY

Michael Bevilacqua, MD, PhD

Chief Scientific Officer/Chief Executive Officer Amicrobe, Inc. Carlsbad, CA

Todd Black, PhD

Director of Infectious Diseases-Drug Discovery Merck New York, NY

Helen Boucher, MD

Professor of Medicine, Tufts Medical Center, Tufts University School of Medicine Boston, MA

Edward Burd, PhD

Head of Regulatory Affairs Rebiotix, Inc. Roseville, MN

Cara Cassino, MD

EVP, Research and Development Chief Medical Officer ContraFect Corporation Yonkers, NY

Edward Cox, MD, MPH

Director Office of Antimicrobial Products (OAP) OND, CDER, FDA, Silver Spring, MD

Wayne Dankner, MD

Chief Medical Officer Atox Bio Carrboro, North Carolina

Shampa Das, PhD

Senior Lecturer, Antimicrobial Pharmacodynamics and Therapeutics University of Liverpool Liverpool, UK

Mary Beth Dorr, PhD

Director, Clinical Research, Infectious Diseases Merck Kenilworth, NJ

Filip Dubovsky, MD

Vice President of Clinical Development, Infectious Disease MedImmune Gaithersburg, MD

Ann Eakin, PhD

Senior Scientific Officer, Concept Acceleration Program
Office of Biodefense, Research Resources & Translational Research/DMID/NIAID/NIH
Rockville, MD

Scott Evans, PhD

Professor of Epidemiology and Biostatistics Director of the George Washington Biostatistics Center George Washington University Washington, DC

Mayurika Ghosh, MD

Medical Officer Division of Anti-Infective Products (DAIP), OAP OND, CDER, FDA Silver Spring, MD

Ramya Gopinath, MD

Medical Officer Division of Anti-Infective Products (DAIP), OAP OND, CDER, FDA Silver Spring, MD

William Hope, PhD

Professor of Therapeutics and Infectious Diseases University of Liverpool Liverpool, UK

Dmitri Iarikov, MD

Deputy Director DAIP, OAP OND, CDER, FDA Silver Spring, MD

Michael Kaleko, MD, PhD

Senior Vice President, Research and Development Synthetic Biologics, Inc. Rockville, MD

Wes Kim, PhD

Senior Officer, Innovation; Antibiotic Resistance Project The Pew Charitable Trusts Washington, DC

Joe Larsen, PhD

Senior Vice President for Life Sciences Strategic Marketing Innovations Washington, DC

Elizabeth Leininger, PhD

Vice President of Regulatory Affairs Aridis Pharmaceuticals San Jose, CA

Owen McMaster, PhD

Pharmacologist OND, CDER, FDA Silver Spring, MD

David Melnick, MD

Chief Medical Officer Spero Therapeutics Cambridge, MA

Sumati Nambiar, MD, MPH

Director DAIP, OAP OND, CDER, FDA Silver Spring, MD

Kevin Outterson, JD

Executive Director CARB-X Boston, MA

Toni Perez, MD, PhD

Chief Medical Officer Combioxin Geneva, Switzerland

Peter Potgieter, MD, PhD

VP, Medical Affairs Locus Biosciences, Inc. Research Triangle Park, NC

John Rex, MD

Chief Medical Officer & Director F2G, Ltd Manchester, UK

Dan Rubin, PhD

Statistician

Division of Biometrics IV, Office of Translational Sciences (OTS), CDER, FDA Silver Spring, MD

Mary Shatzoff, MS

Senior Director of Regulatory Affairs Target Health Inc. New York, NY

Kalavati Suvarna, PhD

Microbiologist DAIP, OAP OND, CDER, FDA Silver Spring, MD

Vu Truong, PhD

Chief Executive Officer and Director Aridis Pharmaceuticals San Jose, CA

Brian Tse, PhD

Health Scientist

Division of Chemical, Biological, Radiological, & Nuclear Countermeasures (CBRN) Biomedical Advanced Research & Development Authority (BARDA) Washington, DC

Xiaohui (Tracey) Wei, PhD

Pharmacologist OTS, Office of Clinical Pharmacology, CDER, FDA Silver Spring, MD

Edward Weinstein, MD

Medical Officer DAIP, OAP OND, CDER, FDA Silver Spring, MD

Disclosures

Dr. Paul Ambrose is employed by and have equity in ICPD, a company that provides pharmacometric services to industry.

Dr. Todd Black is a full-time employee of Merck.

Dr. Helen Boucher has the following disclosures:

- Data Monitoring Committee: Shire
- Scientific Advisory Board: Merck
- Editor: ID Clinics of North America; Antimicrobial Agents and Chemotherapy
- Treasurer: Infectious Diseases Society of America
- Member: ID Board and ID Test Writing Committee, American Board of Internal Medicine
- Voting Member: Presidential Advisory Council on Combating Antibiotic Resistant Bacteria (PACCARB)

Dr. Burd is a full-time employee of Rebiotix.

Dr. Cara Cassino is Chief Medical Officer at ContraFect Corp and is a full-time employee of the company.

Dr. Wayne M Dankner is a full-time employee of Atox Bio.

Dr. Shampa Das holds research grants with Spero Therapeutics, Allecra, Antabio, Bugworks, NAEJA-RGM and AMR Centre. Shampa Das is also working or has previously worked as a consultant with Pfizer, TenNor, Macrolide and Italfarmaco. She is also a former employee and holder of Astrazeneca shares.

Dr. Mary Beth Dorr is a full-time employee of Merck & Co., Inc, Kenilworth, NJ.

Dr Filip Dubovsky is a full-time employee and shareholder of MedImmune/AstraZeneca.

Dr. Evans reports grants from NIAID/NIH; personal fees from the FDA, NIH, The American Statistical Association, The Society for Clinical Trials, the Clinical Trials Transformation Initiative, the American Society for Microbiology, The Infectious Disease Society for America, ACTTION, PPRECISE, the Huntington's Study Group, the Muscle Study Group, Osaka University, the National Cerebral and Cardiovascular Center of Japan, University of Rhode Island, NJMS / Rutgers, Statistical Communications in Infectious Diseases (Journal), Taylor and Francis, the City of Hope, the Austrian Breast & Colorectal Cancer Study Group (ABCSG)/Breast International Group (BIG) and the Alliance Foundation Trials (AFT), Takeda / Millennium, Pfizer, Roche, Novartis, Achaogen, Auspex, Alcon, Merck, Chelsea, Mannkind, QRx Pharma, Genentech, Affymax, FzioMed, Amgen, GSK, Boehringer-Ingelheim, the Drug Information Association, Cubist, AstraZeneca, Teva, Repros, Zeiss, Dexcom, Claret Medical, Vir, Arrevus, Five Prime, Shire, Alexion, Gilead, Spark, Nuvelution, Syndax, Advantagene, Tracon.

Dr. William Hope holds or has recently held research grants with F2G, AiCuris, Astellas Pharma, Spero Therapeutics, Matinas Biosciences, Antabio, Amplyx, Allecra, Bugworks, NAEJA-RGM, AMR Centre, and Pfizer. He holds awards from the National Institutes of Health, Medical Research Council, National Institute of Health Research, FDA and the European Commission (FP7 and IMI). William Hope has received personal fees in his capacity as a consultant for F2G, Amplyx, Ausperix, Spero Therapeutics and BLC/TAZ. Dr. Hope is an Ordinary Council Member for the British Society of Antimicrobial Chemotherapy.

Dr. Michael Kaleko is a full-time employee of Synthetic Biologics, Inc., a public company pursuing strategies to protect the gut microbiome from antibiotic exposure.

Dr. Joe Larsen is Senior Vice President, Life Sciences at Strategic Marketing Innovations, a government relations firm. Locus Biosciences is a current client.

Dr. Leininger is currently Vice President and Head of Regulatory at Aridis Pharmaceuticals.

Dr. Melnick is a full-time employee of Spero Therapeutics, Cambridge, MA.

Professor Outterson is a professor at Boston University and the Executive Director of CARB-X. He has no financial conflicts of interest with any drug company. His research is funded by the US Government, the Wellcome Trust, the UK Government, and the Bill and Melinda Gates Foundation.

Dr. Perez is the Chief Medical Officer of Combioxin, member of GARDP (REVIVE), ESCMID Study Groups (Critically III Patients and Nosocomial Infections) and adviser of Abionic, Debiopharm, FP7-HEALTH-2010, Horizon 2020, EUREKA and Innovation Fund Denmark projects.

Dr. Potgieter is a full-time employee of Locus Biosciences.

Dr. John H. Rex is Chief Medical Officer & Director, F2G, Ltd.; Non-Executive Director & Consultant, Adenium Biotech ApS; Operating Partner & Consultant, Advent Life Sciences; and Expert-in-Residence, Wellcome Trust; He sits on the scientific advisory boards of Macrolide Pharmaceuticals; Bugworks Research, Inc.; Basilea Pharmaceutica; Forge Therapeutics, Inc.; and Novo Holdings; He is a shareholder in AstraZeneca Pharmaceuticals; F2G, Ltd; Adenium Biotech ApS; Advent Life Sciences; Macrolide Pharmaceuticals; and Bugworks Research, Inc.; He has received consulting fees from Phico Therapeutics; ABAC Therapeutics; Polyphor, Ltd.; Heptares Therapeutics, Ltd.; Gangagen, Ltd.; Meiji Seika Pharma; Basilea Pharmaceutica International Ltd.; Allecra Therapeutics GmbH; Forge Therapeutics, Inc.; SinSa Labs; AtoxBio; Peptilogics; F. Hoffmann-LaRoche, Ltd.; and Novo Holdings.

Mary Shatzoff is a Regulatory Affairs Executive and has been working in the pharmaceutical industry in clinical drug development for the past 20 years. She has been a Director of Regulatory Affairs at Target Health Inc. since 2006. Before she joined Target Health she worked as a Manager of Regulatory Affairs at Sanofi Aventis and a Quality Control Microbiologist at Pfizer. She is an active member of The Regulatory Affairs Professional Society (RAPS) as well as the Drug Information Association (DIA). Two of her articles have been published in Applied Clinical Trials Magazine and RAPS Focus Magazine. She received a Bachelor of Science in Biology from Northeastern University, and a Master of Science in Regulatory Affairs from Long Island University, Arnold & Marie Schwartz College of Pharmacy and Health Sciences. Certificates: Regulatory Affairs Certification (RAC-US), Certified Quality Auditor (CQA).

Dr. Vu Truong is a full-time employee of Aridis Pharmaceuticals, Inc.

Dr. Tse is a full-time employee of ASPR/BARDA. The division in which he works supports the development of new antibiotics by pharmaceutical companies, including non-traditional therapies. The pharmaceutical companies often provide cost-share in these development programs.