



AGENDA

Public Workshop

Current State and Further Development of Animal Models of Serious Infections Caused by Acinetobacter baumannii and Pseudomonas aeruginosa

March 1, 2017

DoubleTree by Hilton Hotel Washington DC-Silver Spring, 8727 Colesville Rd., Silver Spring, MD 20910 (Pinnacle Grand Ballroom–2nd floor)

ABSTRACT: There are investigational therapies for bacterial diseases that are active against only a single species of bacteria and the target species is an infrequent cause of human disease. Given the narrow spectrum of activity of these therapies and the use of pre-study and concomitant therapy likely to be utilized when studying such a narrow spectrum drug, performing clinical trials of such drugs will likely be particularly challenging. These challenges were discussed at the July 18-19, 2016 FDA Public Workshop "Facilitating Antibacterial Drug Development for Patients with Unmet Need and Developing Antibacterial Drugs that Target a Single Species"¹. While every effort should be made to perform such trials, animal models of serious bacterial infection may be useful to explore the activity of a candidate antibacterial drug targeting a single species and may help to predict whether the drug will be efficacious in humans.

This workshop will include an overview of the challenges with development of a new antibacterial drug targeting a single species, lessons learned from past and current animal models of infection development efforts, and discussion of next steps and research priorities.

Time	Торіс	Speaker(s) and Affiliation
7:30-8:30 AM	Registration	
Clinical and Scie	ntific Challenges	
8:30-8:50 AM	Introductory Remarks and Panel Introduction	Sumathi Nambiar, MD, MPH, FDA
8:50-9:05 AM	A Clinician's Perspective	Helen Boucher, MD, Tufts Medical Center

¹ Meeting materials including recordings and presentations available at: <u>http://www.fda.gov/Drugs/NewsEvents/ucm497650.htm</u>





11:40-11:55 AM 11:55-12:25 PM 12:25-1:25 PM	Public PresentationsModerated PanelDiscussion (with AudienceQ&A)LUNCH		
	Moderated Panel Discussion (with Audience		
11:40-11:55 AM	Public Presentations		
		Public Presentations	
11:25-11:40 AM	Pathogenesis of Acinetobacter	Robert Bonomo, MD, Case Western Reserve University	
11:10-11:25 AM	Pathogenesis of Pseudomonas	Joanna Goldberg, PhD, Emory University	
Pathogenesis Session Co-Chairs	: Samuel Miller, MD and Robert Bonom	no, MD	
10:50-11:10 AM	BREAK		
	Development for Bacterial Infections	Ed Cox, MD, MPH, FDA	
	Approaches and Important Considerations in Animal Model	Julie Hutt, DVM, PhD, Lovelace Respiratory Research Institute	
	Inhalational Anthrax, Pneumonic Plague, and Tularemia	Gabriel Meister, PhD, Battelle Biomedical Research Center	
9:45-10:50 AM	Lessons Learned from the Development of Animal Models of	Judith Hewitt, PhD, NIAID	
Lessons Learned a	and Considerations for Animal Model D	Development	
		Robin Isaacs, MD, Entasis Therapeutics	
	for a Drug Targeting a Single Species of Bacteria	Andreas Wallnofer, PhD, Polyphor	
		John Rex, MD, CARB-X, F2G Ltd.	





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1:25-1:45 PM	PK/PD Considerations for Animal		David Andes, MD, University of	
	Model Development		Wisconsin	
1:45-2:05 PM	Mouse Model of Pseudomonas		Matthew Lawrenz, PhD, University of	
	Infection		Louisville	
2.05 2.25 DM			Deniel Zureweli. DhD. Welter Deed	
2:05-2:25 PM	Mouse and Pig Models of		Daniel Zurawski, PhD, Walter Reed	
	Acinetobacter Infection		Army Institute of Research	
2:25-2:45 PM	Rabbit Model of Pseudomonas		Binh Diep, PhD, University of California	
	Pneumonia		San Francisco	
2:45-3:05 PM	Ventilated Pig Models of		Gianluigi Li Bassi, MD, PhD	
	Pseudomonas Pneumonia		University of Barcelona	
3:05-3:25 PM	BREAK			
3:25-3:45 PM	Research Support and Resources		David Boucher, PhD	
			BARDA	
			Tina Guina, PhD, NIH/NIAID	
			Thushi Amini, PhD, FDA	
3:45-4:45 PM	Moderated Panel	Panel M	embers:	
	Discussion (with Audience Q&A) David Andes (University of Wisconsin), Robert Bonomo (Case Western University), David Boucher (BARDA), Helen Boucher (Tufts Medical Center), Ed Cox (FDA), Binh Diep (University of California San Francisco), John Farley (FDA), Joanna Goldberg (Emory University), Tina Guina (NIH/NIAID), Judith Hewitt (NIH/NIAID), Julie Hutt (Lovelace Respiratory Research Institute), Jane Knisely (NIH/NIAID), Robin Isaacs (Entasis Therapeutics), Matthew Lawrenz (University of Louisville), Gianluigi Li Bassi (University of Barcelona), Gabriel Meister (Battelle Biomedical		adas (University of Wisconsin) Robert	
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			ter), Ed Cox (FDA), Binh Diep (University of	
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			Louisville), Gianluigi Li Bassi (University of	
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		Research Center), Samuel Miller (University of		
		-	ton), Sumathi Nambiar (FDA), John Rex,	
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		Andreas Wallnofer (Polyphor), Daniel Zurawski (Walter Reed Army Institute of Research)
4:45-5:00 PM	Closing Remarks	

Speaker slides and other workshop material can be found at:

http://www.fda.gov/Drugs/NewsEvents/ucm534031.htm