FDA-MCERSI Workshop on Application of Artificial Intelligence and Machine Learning for						
Precision Medicine						
		Virtual Public Workshop				
February 17, 2023						
		10:00 AM-4:15 PM Eastern Time				
Organizing Con	<u>mmittee</u>					
		OCP, OTS, CDER, FDA				
Kunal Naik, PharmD		OCP, OTS, CDER, FDA				
Neha Mehta, MS		OCP, OTS, CDER, FDA University of Maryland, School of Pharmacy				
Joga Gobburu, PhD, MBA 						
WORKSHOP AGEND	<u>A:</u>					
10:00 AM – 10:05 AM	Welcome Session (Meeting Logistics and Housekeeping)					
	Qi Liu, PhD, MStat					
	Joga Gobburu, Ph	D Professor, School of Pharmacy and School of Medicine, Director of Center for Translation Medicine, University of Maryland				
	Kunal Naik, Pharm					
10:05 AM – 10:30 AM	Keynote Speaker I					
	Eric Topol, PhD	Founder and Director, Scripps Research Translational Institute, Professor Molecular Medicine, Executive Vice-President, Scripps Research				
SESSION 1: Backgro						
	Moderator: Joga Gob	buru, PhD Professor, School of Pharmacy and School of Medicine, Director of Center for Translation Medicine, University of Maryland				
10:30 AM – 10:45 AM		Differentiable Simulation for Scientific Machine Learning				
	Alan Edelman, Ph	D Professor of Applied Mathematics, Computer Science & AI Laboratory, MIT, Chief Scientist, JuliaHub Inc.				
10.45 ANA 11.00 ANA	AL Doute and Due					
10:45 AM – 11:00 AM Al-Partnered Dynamica James Lu, PhD		amical Model Discovery for Precision Medicine Distinguished Al Scientist, Clinical Pharmacology, Genentech				
11:00 AM – 11:15 AM	AI/MI-Englied Dr	ug-Disease Modeling				
11.00 AW - 11.13 AW	Nadia Terranova,					
11:15 AM – 11:30 AM	Accelerated Drua	Development and Precision Pharmacotherapy using DeepPumas				
	Niklas Korsbo, Phl					
11:30 AM – 11:45 AM	ScreenMCM: A M	achine Learning Based-Product Screening Tool to Accelerate Medical Countermeasure				
	Development					
	Rahul Goyal, MS	Pharmaceutical Sciences PhD Student, Center for Translational Medicine, University Maryland School of Pharmacy				
11:45 AM – 12:10 PM		Application of Artificial Intelligence and Machine Learning in Drug Development and Precision MedicineHao Zhu, PhD, MStatDirector, Pharmacometrics Division, OCP, OTS, CDER, FDA				
12:10 PM – 1:00 PM	Lunch Break					

1:00 PM – 1:35 PM	Session 1 Panel Discussion				
Moderator:	Joga Gobburu, PhD	Professor, School of Pharmacy and School of Medicine, Director, Center for Translational Medicine, University of Maryland			
Panelists:	Alan Edelman, PhD		or of Applied Mathematics, Computer Science & AI Laboratory, MIT, Chief		
	James Lu. BhD		Scientist, JuliaHub Inc.		
	James Lu, PhD	-	ished Al Scientist, Clinical Pharmacology, Genentech		
	Nadia Terranova, PhD		Advanced Data Analytics, Quantitative Pharmacology, Merck KGaA, Darmstadt		
	Niklas Korsbo, PhD	Lead De	eveloper and Scientist, DeepPumas		
	Rahul Goyal, MS	Pharma	ceutical Sciences PhD Student, Center for Translational Medicine, University of		
		Marylar	nd School of Pharmacy		
	Hao Zhu, PhD, MStat		r of the Pharmacometrics Division, OCP, OTS, CDER, FDA		
SESSION 2: Challeng	ges and Future Directio				
	Moderator: Qi Liu, PhD, MS	itat, FCP	Associate Director for Innovation and Partnership, OCP, OTS, CDER, FDA		
1:35 PM – 1:55 PM	:35 PM – 1:55 PM Precision Medicine 2030 Mike Pacanowski, PharmD, MPH				
			Director, Translational and Precision Medicine Division, OCP, OTS, CDER, FDA		
1:55 PM – 2:15 PM					
	Luca Foschini, PhD		President and CEO, Sage Bionetworks		
2:15 PM – 2:35 PM	Trustworthy AI				
	Elham Tabassi, PhD		Senior Research Scientist, NIST		
2:35 PM – 2:55 PM	Federated Learning				
2.55 PIVI - 2.55 PIVI	Joseph Lehar, PhD		Senior Vice President of Strategy, Owkin		
2:55 PM – 3:15 PM	Regulatory Considerations for the Use of AI in Drug Development				
2.331101 3.131101	Tala Fakhouri, BSc, PhD, MF		Associate Director for Policy Analysis, OMP, CDER, FDA		
3:15 PM – 3:30 PM	Coffee Break				
3:30 PM – 4:05 PM	Session 2 Panel Discussion				
Moderator:	Qi Liu, PhD, MStat, FCP		Associate Director for Innovation and Partnership, OCP, OTS, CDER, FDA		
Panelists:	Paul Schuette, PhD		Scientific Computing Coordinator, OB, CDER, FDA		
	Matthew Diamond, MD, Ph	D	Chief Medical Officer for Digital Health Center of Excellence, CDRH, CDER, FDA		
	Mike Pacanowski, PharmD,		Director, Translational and Precision Medicine Division, OCP, OTS, CDER, FDA		
	Luca Foschini, PhD		President and CEO, Sage Bionetworks		
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	Elham Tabassi, PhD		Senior Research Scientist, NIST		
	Joseph Lehar, PhD		Senior Vice President of Strategy, Owkin		
	Tala Fakhouri, BSc, PhD, MF	РН	Associate Director for Policy Analysis, OMP, CDER, FDA		
4:05 PM – 4:15 PM	Closing Remarks				
	Joga Gobburu, PhD		Professor, School of Pharmacy and School of Medicine, Director of Center for Translation Medicine, University of Maryland		