

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Division on Engineering and Physical Sciences
Laboratory Assessments Board

Sub-Panel Agenda
MML Biosystems and Biomaterials Division
Open Data Gathering Sessions

May 16-17, 2023

Tuesday, May 16th, 2023

<i>Time</i>	<i>Topic</i>	<i>Lead</i>
1:00 p.m. EDT	Welcome & Division Overview	Sheng Lin-Gibson, Tara Eskandari
1:45 p.m. EDT	Program Area 1: Regenerative Medicine & Advanced Therapies Overview	Sheng Lin-Gibson
1:55 p.m. EDT	Tour Stop 1a: Cell Processing/LIMS-coupled Cell Provenance, FluidFM	John Elliott, Simona Patange
2:15 p.m. EDT	Genome Editing Consortium	Samantha Maragh
2:30 p.m. EDT	Gene Delivery Systems	Ed Kwee
2:45 p.m. EDT	<i>Break</i>	
2:55 p.m. EDT	Tour Stop 1b: Prototype Cell Assay Measurement Platform (PCAMP)	Ramila Joshi, Jason Finley
3:10 p.m. EDT	Tour Stop 1c: Live Cell Imaging	Michael Halter, Anthony Asmar
3:25 p.m. EDT	Flow Cytometry Standards Consortium	Lili Wang
3:40 p.m. EDT	Rapid Microbial Testing Methods Consortium	Nancy Lin, Scott Jackson
3:55 p.m. EDT	<i>Break (walk to Bldg. 224)</i>	
4:05 p.m. EDT	Tour Stop 1d: Standards, Tools, and Control Strategies for Cell Count Based Measurements, Imaging	Sumona Sarkar, Laura Pierce
4:25 p.m. EDT	Tour Stop 1e: Tissue Engineering and Biomaterials (imaging and characterization)	Carl Simon, Greta Babakhanova
4:40 p.m. EDT	Tour Stop 1f: Advanced Spectroscopy	Young Lee, Charles Camp

Wednesday, May 17th, 2023

<i>Time</i>	<i>Topic</i>	<i>Lead</i>
9:00 a.m. EDT	Program Area 2: Precision Medicine Overview	Justin Zook
9:15 a.m. EDT	GIAB, T2T, MDIC, Tumor/Normal	Nate Olson
9:30 a.m. EDT	AI, Cybersecurity	Justin Wagner
9:50 a.m. EDT	Early Cancer Biomarkers	Hua-Jun He
10:10 a.m. EDT	Copy number & Engineering of VCN	Zhiyong He
10:30 a.m. EDT	Tour Stop 2a: Flow Cytometry Lab	Jerilyn Izac, Linhua Tian
10:50 a.m. EDT	<i>Break</i>	
11:00 a.m. EDT	Program Area 3: Engineering Biology Overview	Elizabeth Strychalski

11:30 a.m. EDT	Tour Stop 3a: Living Measurement Systems Foundry (LMSF)	David Ross, Geoff Taghon, Simon d'Oelsnitz
11:50 a.m. EDT	Tour Stop 3b: Cell-free Systems	Jane Romantseva, Samuel Schaffter
12:05 p.m. EDT	RNA Circuits for Cellular Computation	Samuel Schaffter, Molly Wintenberg
12:30 p.m. EDT	<i>Lunch with Postdocs / Early-Career Staff</i>	
1:30 p.m. EDT	Program Area 4: Microbial Metrology - Overview	Scott Jackson
1:40 p.m. EDT	Clinical Applications of the Human Microbiome	Scott Jackson
1:50 p.m. EDT	Fecal Standards and Datasets	Stephanie Servetas, Sam Forry
2:10 p.m. EDT	Microbial Whole Cell Infrastructure	Kirsten Parratt
2:30 p.m. EDT	National Biodefense Strategy (NBS): Biosurveillance - Overview	Nancy Lin
2:40 p.m. EDT	Tour Stop 4a: Infectious Disease Diagnostics	Jason Kralj
2:50 p.m. EDT	Tour Stop 4b: Standards for Biothreat Detection	Sandra Da Silva
3:00 p.m. EDT	Tour Stop 4c: Wastewater Surveillance	Ishi Keenum
3:10 p.m. EDT	<i>Break</i>	
3:25 p.m. EDT	National Initiatives & EO	Sheng Lin-Gibson
3:40 p.m. EDT	NBS: Serology	Lili Wang
4:00 p.m. EDT	<i>Break</i>	
4:10 p.m. EDT	Meeting Recap & Discussion	Panel Members and Division Mgmt.