5th Annual Mid-Atlantic Synthetic Biology Network (MASBN) Symposium

University of Delaware, Audion at STAR Tower, 100 Discovery Blvd, Newark, DE 19713

Thursday, Jan. 9, 2025			
	Location: Audion, STAR Tower	Speaker	
2:00 PM	Registration Opens/Coffee & Snacks		
2:30 PM	Welcome Remarks	Keith Kozminski	UVA
2:35 PM	Session 1 - New to the Mid-Atlantic		,
	Session Chair: Tara Deans, GA Tech		
2:40 PM	Engineered CRISPR systems for drug discovery	Sherry Gao	UPenn
3:00 PM	TBD	Ophelia Venturelli	Duke
3:20 PM	Coffee Break		
	Biofabrication and Biomaterial Approaches for In Vitro 3D Models of		
3:40 PM	Microbial Collectives	Victoria Muir	UDel
3:55 PM	Using synthetic biology to engineer living electronic materials	Josh Atkinson	Princetor
4:15 PM	De novo engineered living materials from bacteria	Sara Molinari	UMD
4:35 PM	Coffee Break		
4:50 PM	Session 2 - Fostering a Regional Innovation Ecosystem		
	Session Chair: Aditya Kunjapur, UDel		
4:55 PM	History of DE Life Science & STAR Campus	TBD	Udel
5:05 PM	Innovation in Biopharmaceutical Manufacturing - the story of NIIMBL	Kelvin Lee	UDel
		Mark Blenner	UDel
		Jill Higginson	UDel
		Nicole Merli	UDel
5:20 PM	Panel on Accelerating Research Translation	Bill Provine	DIS
6:05 PM	Reception and Poster Session 1		
8:00 PM	End of Day 1		

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	Registration Opens /		
8:00 AM	Continental Breakfast		
9:00 AM	Introduction of Keynote Speaker		
9:05 AM	Keynote: Engineering Bacteria for Environmental Release	Chris Voigt	MIT
9:50 AM	Coffee Break		
	Session 3 - Building Communities		
10:00 AM	(of Microbes)		
	Chair: Nathan Crook, NC State		
10:05 AM	Electronically communicating with and controlling biology - redox synbio	Bill Bentley	UMD
10:25 AM	Next-generation Biological Security and Biohackathon	Corey Wilson	GA Tech
	Combinatorial and evolutionary engineering of probiotic yeast for in situ		
10:45 AM	biomanufacturing	Nathan Crook	NC State
	Engineering soil bacteria for long-term detection of TNT explosive in natural		
11:05 AM	soil	Howard Salis	Penn Stat
11:25 AM	Lunch and Poster Session 2	Trainee talks	Mostly U
1:00 PM	Session 4 - SynBio for Health		
	Chair: Jamie Spangler, JHU		
1:05 PM	New methods towards synthetic antibody production in yeast	Johnny Blazeck	GA Tech
	Synthesizing protein engineering with metabolic glycoengineering to		
1:25 PM	enhance antibody design and function	Jamie Spangler	JHU
1:45 PM	Protein Engineering Approaches for Studying Cell Signaling	Larry Stern	USF
	Developing Barley Stripe Mosaic Virus-Like Particles as Modular	Akash Vaidya	
2:05 PM	Nanovaccines	(Solomon Lab)	UD
	Next-generation manufacturing and design of nitrated antigens for	Neil Butler	UD/
2:15 PM	vaccination against infectious disease	(Kunjapur Lab)	Nitro Bio
2:25 PM	Coffee Break		
2:40 PM	Session E. SynRio for Sustainability OP. Tour of NUMBL (Most at Appie)		
	Session 5 - SynBio for Sustainability OR Tour of NIIMBL (Meet at APBio) Chair: Josh Michener, ORNL		
	Understanding the tunability of methyl-coenzyme M reductase for methane		
2:45 PM	bioconversion applications	Kylie Allen	VA Tech
	Engineering Bacillus species for improved microbiome engineering	Josh Michener	ORNL
			IUIVIL
3:05 PM			
	Engineering biology across the central dogma Closing Remarks	Samuel Schaffter	NIST