The 10th New England Cryo-EM Symposium Friday, October 27, 2023 and Saturday, October 28, 2023

		Schedule for	r Friday, Oct Marsh Lect	-	2023				
8:15 am - 8:45 am	Registra	tion and Breakfas		are man					
8:45 am - 9:00 am	Opening Remarks:								
	Jack "Kai"	•			Butterwick				
		·			tant Professor of Pharmacology				
	Biochemistry Yale University Yale University				Jniversity				
Session 1a:	ession 1a: Hosted by Shenping Wu, Research Scientist, Yale University								
		Speaker	Lab	Institution	Title				
9:00 am - 9:20 am	Talk 1	Yong Xiong	Yong Xiong	Yale University	Visualizing human translation dynamics inside cells using in situ single-particle				
0.20 0.40	T-II. 2	Paraleta Baran	It and the	110	cryo-EM				
9:20 am - 9:40 am	Talk 2	Jianbin Ruan	Jianbin Ruan	UConn Health	An unexpected regulation of Gasdermin pore formation revealed by cryo-EM				
			Nuali	Center	pore formation revealed by cryo-civi				
9:40 am - 10:00 am	Talk 3	Sayan	Joachim	Columbia	Mechanism of HflX-mediated recycling of				
		Bhattacharjee	Frank	University	E. coli ribosome studied by time-resolved				
					cryo-EM				
10:00 am - 10:20 am	Talk 4	Johannes Elferich	Nikolaus	UMass	Workflows for In-Situ Structural Biology				
			Grigorieff	Chan	Using DeCo-LACE and cisTEM				
				Medical School					
10:20 am - 10:40 am	Coffee Break								
Session 1b:	Hosted I	oy Qinhui Rao, As	sociate Res	earch Scie	entist, Yale University				
10:40 am - 11:00 am	Talk 5 Tianming Fu		Tianming	Ohio State	Expect the unexpected: how protein				
			Fu	University	oligomerization governs mechano-				
					sensitivity				
11:00 am - 11:20 am	Talk 6	Bonnie Su	Seychelle	MIT	Distinct Negative Elongation Factor				
			Vos		conformations regulate RNA polymerase II				
44.20 44.40	T-11. 7	Line Vo	A	M-1-	promoter proximal pausing				
11:20 am - 11:40 am	Talk 7	Ling Xu	Anna	Yale	Structural insights into intron branching and retrotransposition				
11:40 am - 12:10 pm	Keynote	Xiangxi Wang	Pyle Xiangxi	University Institute of	·				
11.40 am - 12.10 pm	Speaker	Mangai wang	Wang	Biophysics,	, ,				
	Speaker		, valie	Chinese	Tassine acsign				
				Academy o	f				
				Sciences					
12:10 pm - 2:00 pm	Lunch a	nd Poster Session	n						

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Session 2a:	: Hosted by Boyuan Ma, Postgraduate Associate, Yale University						
2:00 pm - 2:20 pm	Talk 9	Marty Taylor	Marty Taylor	Harvard University	Structural analysis and inhibition of human LINE-1 ORF2 protein reveals novel adaptations and functions		
2:20 pm - 2:40 pm	Talk 10	Allen Guo	CEO of Shuimu	Shuimu BioSciences	Development of Cryo- EM Technologies at Shuimu BioSciences		
2:40 pm - 3:00 pm	Talk 11	Roy Lederman	Roy Lederman	Yale University	Approaches for Exploring the Geometry of Molecular Conformations in Cryo- EM		
3:00 pm - 3:20 pm	Talk 12	Le Xiao	Hao Wu	Harvard University / Boston Children's Hospital	Cryo-EM structures of the active NLRP3 inflammasome disc		
3:20 pm - 3:40 pm	Coffee	Break		·			
Session 2b:	Hosted	by Ling Xu, Postd	octoral Fellow, Y	ale University			
3:40 pm - 4:00 pm	Talk 13	Steve Bonilla	Steve Bonilla	Rockefeller University	Using Cryo-EM to Solve the Structures of Conformationally Heterogeneous RNAs		
4:00 pm - 4:20 pm	Talk 14	Emmanuel Smith	JEOL USA	JEOL USA	High-Throughput Single Particle Analysis using the JEOL CRYO ARM		
4:20 pm - 4:40 pm	Talk 15	Chunyan Wang	Jun Liu	Yale University	A newly recognized small protein plays a critical role in bacteriophage T7 assembly		
4:40 pm - 5:00 pm	Talk 16	Friederike Benning	Luke Chao	Harvard University	Helical reconstruction of VP39 reveals principles for baculovirus nucleocapsid assembly		
5:00 pm - 6:30 pm	Best Po	oster Award and H	appy Hour				

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		Schedule for	Saturday, October	28th, 2023					
			Bass 305						
8:30 am - 9:00 am	Breakfast and Discussion								
Session 3a:	Hosted by Victor Gomes, Graduate Student, Yale University								
9:00 am - 9:20 am	Talk 17	Wenwei Li	Walter Mothes	Yale University	HIV-1 Env trimers asymmetrically engage CD4 receptors in membranes				
9:20 am - 9:40 am	Talk 18	Kexin Zhang	Nikolaus Grigorieff	UMass Chan Medical School	A Better Metric for Template Matching of Cellular Cryo-EM Images				
9:40 am - 10:00 am	Talk 19	Bogdan Toader	Roy Lederman	Yale University	SGD for high-resolution cryo-EM reconstruction				
10:00 am - 10:20 am	Talk 20	Michael Grunst	Walther Mothes	Yale University	Structure and Inhibition of SARS-CoV-2 Spike Refolding in Membranes				
10:20 am - 10:40 am	Coffee Break								
Session 3b:	Hosted by Shuhui Wang, Postdoctoral Associate, Yale University								
10:40 am - 11:00 am	Talk 21	Nikhil Malvankar	Nikhil Malvankar	Yale University	Cryo-EM "sequencing" reveals structures of microbial nanowires secreted by unique bipartite pili				
11:00 am - 11:20 am	Talk 22	Ximena Zottig	Nikolaus Grigorieff	UMass Chan Medical School	Viral Translational Control Strategies Visualized with 2D Template Matching				
11:20 am - 11:40 am	Talk 23	Seven Guo	Jun Liu	Yale University	Capturing and modeling the structural dynamics of the bacterial flagellar motor				
11:40 am - 12:00 pm	Talk 24	Jack "Kai" Zhang	Jack "Kai" Zhang	Yale University	In-situ cryo-EM/ET at sub-2 Å				
Session EX:	Led by cryo-EM/ET experts at UMass and Yale								
12:00 pm - 1:00 pm	Free discussion driven by open questions with all attendees involved; Snacks available								
1:00 pm	Closing remarks:								
		Professor of or Biophysics & istry	Joel Butterwick Assistant Professor of Pharmacology Yale University						