

TI-FRIS/FRIS Symposium 2025: Oral Presentations by PIs of FRIS's Program for Creation of Interdisciplinary Research and Creative Interdisciplinary Collaboration Program (10 min x 10)

Day 2: Thursday, February 20, 2025

Time	Presenter	Affiliation	Title	(Title in Japanese)
10:30	Yuji Saito	FRIS, Tohoku Univ.	Biomass Space Propulsion Systems for Sustainable Space Exploration	持続的な宇宙開発に向けたバイオマス燃焼推進装置の開発
10:40	Chao Tang	FRIS, Tohoku Univ.	Ultra fast THz response in 2D dirac semimetals	二次元ディラック半金属の超高速THz応答
10:50 (pre-rec)	Aseel Marahleh	FRIS, Tohoku Univ.	Beyond transcription: The case for skeletal biology in health and disease	
11:00	Atsushi Tahara	FRIS, Tohoku Univ.	Polycondensation of biomass monomers for sustainability	
11:10	Go Yamamoto	Graduate School of Engineering, Tohoku Univ.	Development of crack detection method by using topology optimization	トポロジー最適化を用いた欠陥探傷方法の開発
11:20 (pre-rec)	Mako Kobayashi	Graduate School of Engineering, Tohoku Univ.	Elucidation of Vascular Function Focusing on Basement Membrane Surface Topography (Pre-recorded)	基底膜表面形状に着目した血管機能の解明
11:30	Kanako Bessho-Uehara	Graduate School of Life Sciences, Tohoku Univ.	Identification of plant-derived constraints for determining gall morphology driven by citizen science	
11:40 (online)	Shiori Sugiura	Institute of Material Research, Tohoku Univ.	Knocking the Virtual Material Science : Establishment of a new observation method for fluctuating superconducting states (Online)	
11:50	Kazuyuki Iwase	Institute of Multidisciplinary Research for Advanced Materials, Tohoku Univ.	Development of Highly Active CO ₂ reduction electrocatalysts by Controlling Substrate and Proton Mobility	基質及びプロトン移動度制御による高活性二酸化炭素還元触媒の創成
12:00	Kohei Tamura	Center for Northeast Asian Studies, Tohoku Univ.	An Interdisciplinary Study on the Value and Maintenance of “Broken” Cultural Heritage: The Transmission of Memory of Disasters with Digital Technologies	