

List of selected projects for Discretionary Collaborative Research Project 2024, IFS, Tohoku University (as 11th April, 2024)

Project Code	Project Title	Applicant	Institution	IFS responsible member or non-IFS responsible member	Institution
J24L004	Evaluation of Bactericidal and Antibacterial Properties Dependent with the Composition of Nanostructures	Takeshi Ito	Kansai University	Daisuke Ohori	Tohoku University
J24L026	Direct Comparison between Stress Drop and Resolved Shear Stress	Yusuke Mukuhira	Tohoku University	YOSHIMITSU Nana	Kyoto University
J24L036	Atomization and Combustion Characteristics of Fine Bubble Fuel	Yasuhito Nakatake	National Institute of Technology, Kurume College	Akihiro Hayakawa	Tohoku University
J24L037	Study on the Injection Process of Next-generation Liquified Fuels	Noritsune Kawaharada	National Traffic Safety and Environment Laboratory	Ippei Oshima	Tohoku University
J24L069	Molecular Dynamics Study of Mechanical Balance at Three-Phase Interface of Nano-Bubble on Solid Surface	Hiroki Nagashima	University of the Ryukyus	Takashi Tokumasu	Tohoku University
J24L074	Measurements of Fundamental Physical Properties of Functional Fluids for Efficient Subsurface Developments	Kazuki Sawayama	Kyoto University	Yusuke Mukuhira	Tohoku University
J24L085	Experiment and Molecular Dynamics Simulation for Plasma-dependent Interface	Liu Siwei	Tohoku University	Kosuke Tachibana	Oita University
J24L088	Comparison of Different Numerical Solvers for Intravascular Treatment Simulation	Narendra Kurnia Putra	Institut Teknologi Bandung	Hitomi Anzai	Tohoku University
J24L095	Density and Surface Tension Effects on Vortex Dynamics	Stefan Llewellyn Smith	University of California	Yuji Hattori	Tohoku University
J24L096	Analysis of Heat and Momentum Transport Phenomena through Droplets in Nanochannels	Akinori Fukushima	University of Fukui	Takashi Tokumasu	Tohoku University

10 selected projects