**List of selected projects for Discretionary Collaborative Research Project 2026, IFS, Tohoku University (as 1st April, 2026)**

| Project Code | Project Title | Applicant | Institution | IFS responsible member or non-IFS responsible member | Institution |
|---|---|---|---|---|---|
| J26L044 | Development of Technology to Generate Quasi-Atmospheric Winds by Injecting Multiple Shear Forces | Kotaro Takamure | Akita University | Ippei Oshima | Institute of Fluid Science |
| J26L052 | Experiment and Molecular Dynamics Simulation for Plasma-Dependent Interface | Siwei Liu | Institute of Fluid Science | Kosuke Tachibana | Oita University |
| J26L057 | Numerical Analysis of Transfer Phenomena in Ultra-Low Fill Rate Heat Pipe | Asami Hatamoto | Aoyama Gakuin University | Hiroki Nagai | Institute of Fluid Science |
| J26L064 | Exploring the Effects of Shear Stress Magnitude and Variation on Endothelial Injury: From Current Evidence to in Vitro Experiment of Cellular Responses | Mingzi Zhang | Torrens University Australia | Makoto Ohta | Institute of Fluid Science |
| J26L072 | Fundamental Study of Weak Radiation behind Air Shock Waves | Masato Funatsu | Gunma University | Kiyonobu Ohtani | Institute of Fluid Science |
| J26L077 | Study on the Injection Control of Carbon-Free Fuels | Noritsune Kawaharada | National Traffic Safety and Environment Laboratory | Ippei Oshima | Institute of Fluid Science |
| J26L078 | Blood Flow Analysis of Aorta-Left Ventricle System with Aortic Valve | Suguru Miyauchi | University of Miyazaki | Kenichi Funamoto | Institute of Fluid Science |
| J26L087 | Precise Measurement of the Effect of Deceleration on the Drag Coefficient | Takamasa Kikuchi | Nihon University | Kiyonobu Ohtani | Institute of Fluid Science |
| J26L100 | Innovative Strategies for Glaucoma Management Through CFD Modeling of Aqueous Humor Flow | Muhamed Albadawi | Alexandria University (Egypt) / Egypt-Japan university of science and technology | Makoto Ohta | Institute of Fluid Science |
| J26L113 | Strategic Deployment of Aerosol Sensors in Confined Spaces for Enhanced Respiratory Virus Detection: An Optimisation Study Based on Computational Fluid Dynamics Simulations | Yujie Li | Torrens University Australia | Makoto Ohta | Institute of Fluid Science |
| J26L114 | Relationship between Micro-Structure of Nano-Fiber and Rheological Property in Cellulose Nano-Fiber Dispersion | Masaaki Motozawa | Shizuoka University | Hidemasa Takana | Institute of Fluid Science |
| J26L119 | Experiment and Simulation of a Hollow Cylinder | Katsuya Hirata | Doshisha University | Jun Ishimoto | Institute of Fluid Science |
| J26L122 | Research on Power Generation Technology using Flow-Induced Vibration | Naoto Kato | Utsunomiya University | Hiroki Nagai | Institute of Fluid Science |

13 selected projects