

No.	K25-2187	
Project Title	Development and interrogation of novel blood cancer model systems	
Principal Investigator	Adam Clifford Wilkinson (University of Cambridge · Assistant professor)	
Project Member(s)	IMSUT Host Researcher	Satoshi Yamazaki (The Institute of Medical Science, The University of Tokyo · Professor)
	Project Member (s)	Adam Wilkinson (University of Cambridge · Group Leader)
	Project Member (s)	Matthew Nicholls (University of Cambridge · PhD student)
	Project Member (s)	Grace Meaker (University of Cambridge · PhD student)
	Project Member (s)	Ryo Yamamoto (University of Kyoto · Associate Professor)
	Project Member (s)	Daiki Karigane (Institute of Science Tokyo · Associate Professor)
	Project Member (s)	Kimihito Kawabata (Division of Clinical Precision Research Platform · Assistant Professor)
	Project Member (s)	Jiro Becker (Division of Cell Regulation · Assistant Professor)
	Project Member (s)	Atsushi Iwama (Division of Strm Cell and Molecular Medicine · Professor)
	Project Member (s)	Ian Hsu (University of Cambridge · PhD student)
	Project Member (s)	Yavor Bozhilov (University of Cambridge · Postdoctoral researcher)

Principal Investigator
Yamazaki / Wilkinson

IMSUT International Joint Usage/Research Center Project <International>

Joint Research Report (Annual/Project Completion)

Annual Report
Report
In the first year of this IMSUT International Joint Research project, the Wilkinson lab at the University of Cambridge and the Yamazaki lab at IMSUT have initiated new collaborative research focused on developing and interrogating novel blood cancer model systems. The project builds on previous successful collaborations developing novel haematopoietic stem cell culture systems (Wilkinson et al., Nature 2019; Sakurai et al., Nature 2023). In this first year, we have been focused on technical optimization for the novel blood cancer model particularly developing efficient genetic manipulation protocols for primary human stem cells. This research was greatly enhanced by Wilkinson lab members visiting IMSUT in May 2025 and September 2025, which enabled collaborative experiments and in-depth discussions. The progress during the first year of this collaborative project provides a strong foundation for further progress and breakthroughs next year.