

Kyoto University On-site Laboratory: Kyoto University Research Center San Diego



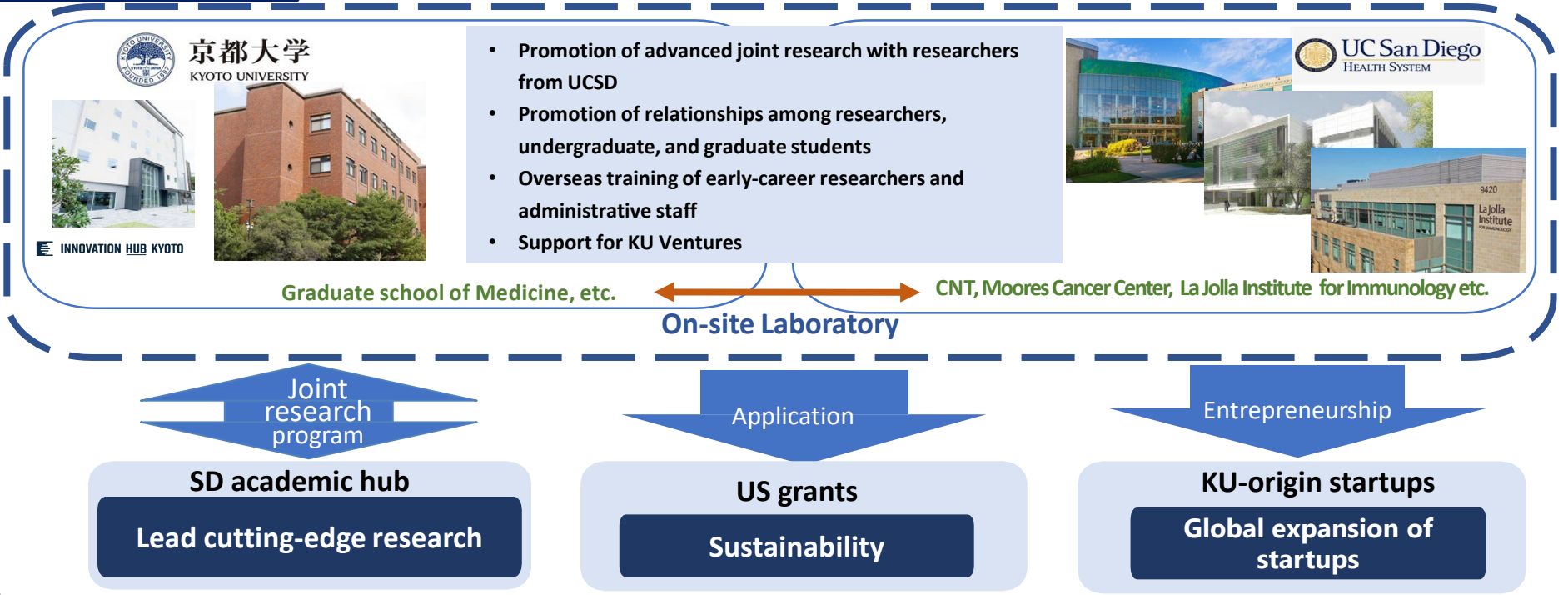
General Information

- ◆ Approved in FY 2018
- ◆ Established in September 2019
- ◆ Established by the Graduate School of Medicine
- ◆ Partner institution: The University of California San Diego (UCSD), USA
- ◆ Location: The University of California San Diego (UCSD), San Diego, USA (outbound)
- ◆ Purposes: Acceleration of research collaboration, industry-academia collaboration, education collaboration, and global human resource development through sharing space in the Center for Novel Therapeutics with UCSD's top researchers
- ◆ Functions: Joint research in the field of medicine and expansion of collaboration with academic institutions and industrial partners in San Diego.

Positive ripple effects on the university's activities

- Promotion of international joint research
 - Recruitment of talented international students and researchers
 - Support for study abroad and global exchange by students and faculty and staff members
 - Support for KU ventures
- 【FY 2026】
- The UCSD School of Medicine campus, where KURC-SD is located, is home to several prominent research institutions, including the Moores Cancer Center and the La Jolla Institute for Immunology (LJI), and hosts numerous world-renowned researchers in the field of immunology. Leveraging this environment, a collaborative research program focused on human immunology is being launched, with preparations underway for joint grant applications to organizations such as the NIH. This initiative is expected to drive cutting-edge research and strengthen collaboration with Kyoto University.
 - KURC-SD will serve as an open-space research environment, offering Kyoto University researchers a cost-effective and convenient setting to initiate new projects.

Activity Overview



Main Activities in FY 2025

① Research: Establishment of a U.S.-Based Collaborative Platform for Human Immunology

- Prof. Ueno, in collaboration with Prof. Shane Crotty (La Jolla Institute for Immunology) and Prof. Mark Davis (Stanford University), conducted integrated single-cell, multi-platform analyses combined with mathematical modeling using patient-derived tissues from autoinflammatory liver disease.
- Prof. Ueno, in collaboration with Prof. Dennis Carson (University of California San Diego) and Dr. Tomoko Hayashi (University of California San Diego), developed a novel vaccine modality to activate tissue-level immune responses; in FY2025, an adjuvant developed by Prof. Carson was conjugated to a proprietary nanogel by Specially Appointed Professor Akiyoshi (Ueno Lab), developing a prototype vaccine.

② Education: cSIMVa • KIC • LJI • UCSD Strategic International Joint Symposium 2025 (June 4–6, 2025)

- To establish a U.S.-based collaborative research framework for human immunology, a four-institution joint international symposium was held at the La Jolla Institute for Immunology (San Diego, CA), involving Chiba University, Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa); KU Immunomonitoring Center (KIC); La Jolla Institute for Immunology (LJI); and University of California San Diego (UCSD).
 - ✓ 128 participants (including 28 students; Kyoto University: 7 faculty members, 5 graduate students)
 - ✓ 33 oral presentations (including a plenary lecture by Dr. Vijay Kumar Kuchroo, Harvard University) and 27 poster presentations (June 4–5)
 - ✓ Brainstorming sessions involving Japan–U.S. researchers across four thematic areas in immunology (June 6)

