UTokyo Amgen Scholars Program 2027

Host Laboratory and Research Topic

Name of Faculty Member	Sadao Ota, Professor
Name of Graduate School / Institute	Research Center for Advanced Science and Technology
Research Topic & Description	We develop innovative bio-measurement technologies by integrating optics, fluidics, information science, chemistry, bioengineering and life science. Our goal is to create new ways to observe and understand living systems — from single molecules to cells and organoids — and to apply these discoveries to next-generation medical diagnostics and therapeutics, and synthetic biology beyond the limit of human and nature.
Academic Requirements & Expectations	**1) Field(s) of Study** We welcome applicants from a wide range of disciplines, including physics, electrical or mechanical engineering, chemistry, biotechnology, and biological or medical sciences. Curiosity and enthusiasm for connecting engineering with biology are very important. **2) Knowledge/ Skill/ Proficiency** Students with background in either (i) optics, photonics, spectroscopy, or data science, or (ii) molecular/cellular biology, biochemistry, or bioengineering are encouraged to apply. Basic coding skills and interest in computational analysis are advantageous but not mandatory. **3) Academic Background and Research Experience** Strong academic performance and motivation to engage in creative, cross-disciplinary research are highly valued. Prior research experience is helpful but not essential.
Website & Relevant Information	https://www.sadaotalab.net/
Campus / Location	Komaba II
Area of Research	Bioengineering Biotechnology Chemical and Biomolecular Engineering