UTokyo Amgen Scholars Program 2022
Host Laboratories & Project Topics

Name of Faculty Member (Title)	Robert E. CAMPBELL (Professor)
Name of Graduate School / Faculty/ Institute	Graduate School of Science
Research Topic & Research Description	Protein Engineering and Chemical Biology for the development of fluorescent biosensors for biological imaging of metabolism
Special academic conditions required for research	**1) Prerequisite knowledge and/or specific skill and its proficiency**
	Applicants should have a good understanding of organic chemistry, protein biochemistry, fluorescence spectroscopy, and cell metabolism.
	2) Required study field(s)
	Successful applicants will undertake projects in the areas of Protein Engineering and Chemical Biology. Projects in the ares of Protein Engineering will primarily involve techniques that include molecular biology, protein chemistry, and fluorescence spectroscopy. Projects in the area of Chemical Biology will involve the above listed techniquest plus organic synthesis and small-molecule spectral characterization.
	3) Academic background or research project experience to be considered at selection
	Top applicants will have demonstrated a strong academic performance in University-level organic chemistry, biochemistry, and analytical chemistry. Previous research experience is not a requirement, but applicants must demonstrate an outstanding level of enthusiasm for undertaking research.
Lab Website	https://www.chem.s.u-tokyo.ac.jp/campbell/
Campus	Hongo
Academic Research Areas	Biochemistry Chemical and Biomolecular Engineering Neuroscience
Lab Video/Brochure	Information on our lab is on P11 of the following PDF. https://www.chem.s.u-tokyo.ac.jp/chem_about/pdf/Dept_Chem_en.pdf