UTokyo Amgen Scholars Program 2027

Host Laboratory and Research Topic

Name of Faculty Member	Daisuke Tsugama, Associate Professor
Name of Graduate School / Institute	Graduate School of Agricultural and Life Sciences
Research Topic & Description	Developing a Structure-Based Pipeline for High-Throughput Screening of Plant Protein Interactions This project builds a local EMF3-AlphaFold3 interaction-strength evaluation pipeline to achieve flexible, diverse interaction predictions and to identify useful plant proteins.
Academic Requirements & Expectations	**1) Field(s) of Study** Plant Biology, Systems Biology, Synthetic Biology, Computer Science **2) Knowledge/ Skill/ Proficiency** Foundational knowledge of basic biology and an interest in plant science and systems biology. Basic programming skills or conceptual understandings of computational tools and AI-driven platforms are valued. **3) Academic Background and Research Experience** Prior research experience in a laboratory setting is a plus, but motivated beginners with a passion for bridging biology and computational tools are very welcome.
Website & Relevant Information	Laboratory HP https://webpark2116.sakura.ne.jp/ GitHub Overview Page https://github.com/tsugama-eng
Campus / Location	Tanashi (Nishi-Tokyo) Campus
Area of Research	Bioinformatics Bioengineering Biotechnology