

UTokyo Amgen Scholars Program 2025

Host Laboratory and Research Topic

Name of Faculty Member (Title)	Tsuyoshi MINAMI (Associate Professor)
Name of Graduate School/ Faculty/ Institute	Institute of Industrial Science
Research Topic & Description	<p>My group is interested in “applied” supramolecular chemistry. While previous work in the field of supramolecular chemistry centered mostly on fundamental research, current developments suggest that such chemistry is well poised to make significant contributions to various research fields. In particular, supramolecular sensors for biologically important species or pollutants are some of the most promising applications of molecular recognition materials. To be harnessed for rigorous analytical assignments, my research centers on the molecular design and synthesis of materials as well as the fabrication of devices.</p> <p>Recent research projects are as follows: 1) Chemical Sensors based on Organic Thin Film Transistors Functionalized with Molecular Recognition Materials 2) High-throughput Analysis based on Supramolecular Sensor Arrays</p>
Academic Requirements & Expectations	1) Field(s) of Study
	General chemistry (organic chemistry, biochemistry, analytical chemistry, etc.) and/or electronic engineering (transistor, diode, circuits, etc.)
	2) Knowledge/ Skill/ Proficiency
	Organic synthesis, organic electronics and/or biochemical experiment
Academic Requirements & Expectations	3) Academic Background and Research Experience
	Fundamental knowledge and experience in the above disciplines would be useful, but not required.
Lab Website & Relevant Information	https://www.tminami.iis.u-tokyo.ac.jp/en/
Campus / Location	Komaba II Komaba II: https://www.iis.u-tokyo.ac.jp/
Area of Research	Biochemistry Biotechnology Chemistry