

## UTokyo Amgen Scholars Program 2022 Host Laboratories & Project Topics

<b>Name of Faculty Member (Title)</b>	GODA Keisuke (Professor)
<b>Name of Graduate School / Faculty/ Institute</b>	Graduate School of Science
<b>Research Topic &amp; Research Description</b>	<p>We develop serendipity-enabling technologies based on molecular imaging and spectroscopy together with microfluidics and computational analytics, use them to push the frontiers of human knowledge and understanding, and produce global leaders who will shape the future of biology and medicine. Specifically, the serendipitous technologies are designed for discovering new biological phenomena, elucidating unknown mechanisms, and exploiting new applications. They are based on an integration of theoretical, experimental, and computational techniques in physics and chemistry combined with molecular cell biology, electrical engineering, computer science, artificial intelligence, biomedical engineering, applied mathematics, mechanical engineering, and nanotechnology.</p>
<b>Special academic conditions required for research</b>	<b>1) Prerequisite knowledge and/or specific skill and its proficiency</b>
	Basic understanding of physics, chemistry, or biology at the undergraduate level
	<b>2) Required study field(s)</b>
	Physics, chemistry, or biology at the undergraduate level
<b>3) Academic background or research project experience to be considered at selection</b>	<b>3) Academic background or research project experience to be considered at selection</b>
	Basic understanding of physics, chemistry, or biology, and lab research experience
<b>Lab Website</b>	<a href="http://www.goda.chem.s.u-tokyo.ac.jp/">http://www.goda.chem.s.u-tokyo.ac.jp/</a>
<b>Campus</b>	Hongo
<b>Academic Research Areas</b>	<p>Bioengineering Bioinformatics Biotechnology</p>
<b>Lab Video</b>	<a href="https://youtu.be/rn0NRrHzjfk">https://youtu.be/rn0NRrHzjfk</a>