

## 8<sup>th</sup> Stockholm Trio-The University of Tokyo – Workshop, September 29<sup>th</sup> - 30<sup>th</sup>, 2025. Thematic workshop: Collaborative Frontiers in Biomaterials for Global Health

Advanced biomaterials are transforming global health by enabling precise, efficient, and scalable medical solutions. This workshop will explore innovations in RNA engineering, synthetic biology, genome editing, and drug delivery systems, highlighting strategies to enhance biocompatibility, maximize therapeutic impact, and accelerate translational applications. Emphasis will be placed on collaborative approaches that combine technology, sustainability, and accessibility to tackle pressing health challenges worldwide.

**Format:** Hybrid, Swedish Side in room Biomedicum B0317 Sept 29<sup>th</sup>, Biomedicum B0313 Sept 30<sup>th</sup>

**Link:** <https://u-tokyo-ac-jp.zoom.us/j/87656693697?pwd=DvybPaobb0L0MlMhBgdGcgYACJD2IYs.1>  
Meeting ID: 876 5669 3697  
Passcode: 340449

### September 29<sup>th</sup> 8:00-12:00 CET/15:00-18:30 JST

Time	Speaker	Title
8:00-9:00 CET 15:00-16:00 JST	Anna Herland	Opening Remarks
8:05-9:05 CET 15:05-16:05 JST	<b>Hirohide Saito</b>	<b>Opening Keynote: RNA SyntheticBiology for Future Medicine</b>
9:05-9:15 CET 16:05-16:15 JST	<i>Coffee Break</i>	
9:15-9:40 CET 16:15-16:45 JST	Joel Nordin	Extracellular Vesicles for Biomedical Applications - Engineering EVs for drug delivery
9:45-10:15 CET 16:45-17:15 JST	Moritoshi Sato	Manipulating biological processes by light
10:15-10:20 CET 17:15-17:20 JST	<i>Break</i>	
10:20-10:50 CET 17:20-17:50 JST	Ana Teixeira	DNA nanotechnology in drug delivery
10:50-11:20 CET 17:50-18:20 JST	Makoto Nakakido	Generation and engineering of single domain antibodies
11:20-11:30 CET 18:20-18:30 JST	<i>Announcements for September 30<sup>th</sup> session</i>	

### September 30<sup>th</sup> 8:00-12:00 CET/15:00-19:00 JST

Time	Speaker	Title
8:00-9:00 CET 15:00-16:00 JST	<b>Georgios Sotiriou</b>	<b>Keynote: Flame nanoparticle engineering for biomedical applications</b>
9:00-9:10 CET 16:00-16:10 JST	<i>Coffee Break</i>	
9:10-9:40 CET 16:10-16:40 JST	Horacio Cabral	Nanomedicine approaches for targeted immunotherapy
9:40-10:10 CET 16:40-17:10 JST	Hanna Barriga	Nanolipid mRNA delivery
10:10-10:45 CET 17:10-17:45 JST	<b>Dan Andréé</b>	<b>EU-funding landscape. How does it work in Japan?</b>
10:45-10:55 CET 17:45-17:55 JST	<i>Break</i>	
10:55-11:05 CET 17:55-18:05 JST	Ana Spencer	Predicting nanobiomaterials efficacy: leveraging advanced in vitro neuro-models
11:05-11:15 CET 18:05-18:15 JST	Yuki Nakashima	Block copolymer engineering for efficient <i>in vivo</i> mRNA delivery
11:15-11:25 CET 18:15-18:25 JST	Samantha Roudi	In situ production of engineered extracellular vesicles for efficient delivery of protein biotherapeutics
11:25-11:35 CET 18:25-18:35 JST	Keita Masuda	Self-catalyzing synthetic ligands for potent bacterial targeting
11:35-11:45 CET 18:35-18:45 JST	Tade Idowu	Engineering multivalent insulin using DNA-origami nanostructures
11:45-11:55 CET 18:45-18:55 JST	Soichiro Kondo	Precision glycosylation of antibodies for targeted delivery
11:55-12:00 CET 18:55-19:00 JST	<b>Closing discussion (collaboration opportunities, student exchange and joint research)</b>	