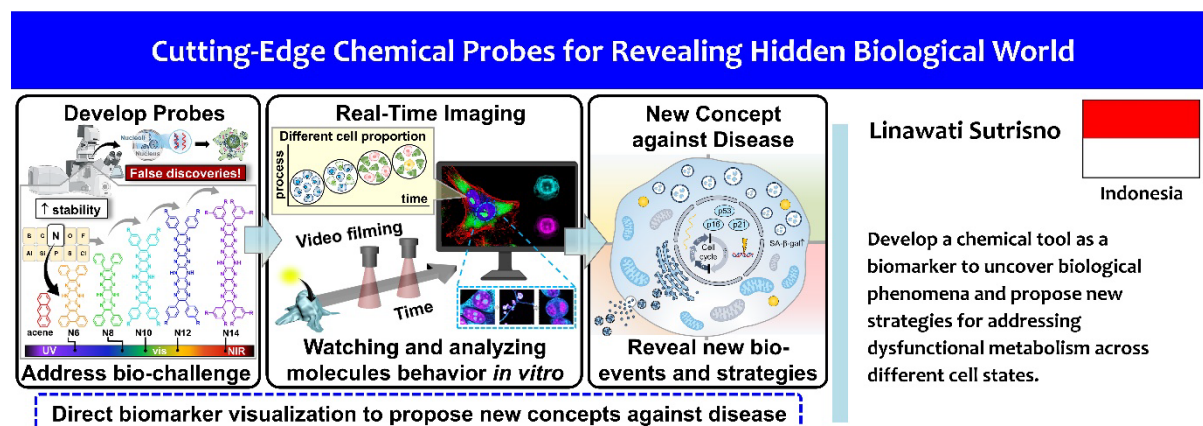


<Research Topics>

Cutting-Edge Chemical Probes for Revealing Hidden Biological World

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■ Research

Imaging research has gained significant popularity in recent years, largely due to its ability to reveal previously unseen phenomena. The ability to observe within a living body is undeniably exciting. However, as researchers, we must move beyond simply "observing the visible." Despite advances in imaging, there remain numerous biological processes that elude visualization. In my study, I aim to overcome these limitations by advancing imaging technologies to reveal currently hidden phenomena. For instance, while current biomaging techniques allow us to observe cellular movement, they fall short of capturing the full picture. Cells not only migrate to specific locations but also undergo several processes to perform specialized functions, processes that are often independent of movement and thus difficult to image. This project centres on the dynamic network of the various cell community, with the goal of uncovering the fundamental principles that preserve the integrity of organs and tissues through coordinated cellular movements. By understanding these mechanisms, we aim to pave the way for groundbreaking drug discovery that can effectively regulate these processes. Furthermore, the project seeks to advance our cutting-edge biomaging technology, positioning it at the forefront of global research, and to establish "drug discovery imaging"—a novel approach to drug discovery leveraging this unique, innovative technology.

■ Comments

I am deeply grateful for the inspiring research environment provided by ICYS (NIMS), which has enabled me to pursue my work with great enthusiasm. Joining the ICYS family has been a remarkable opportunity, and I have already benefitted from the interdisciplinary collaborations that are encouraged here. Engaging with researchers from diverse fields has allowed me to refine my research direction, sparking new ideas that I hadn't initially considered. The ICYS fellowship's global prestige, state-of-the-art facilities, and commitment to professional development strongly appealed to me. These aspects made it a highly competitive and attractive program, driving my decision to join. Interaction with specialists in various fields has enhanced the depth and scope of my work, allowing me to approach challenges from fresh perspectives.

■ Link

<https://www.nims.go.jp/icys/research/#SUTRISNO>