

# 2020 年度 第 2 回 生命科学技術国際卓越講義



*World-leading Innovative Lectures  
in Life Science & Technology  
The University of Tokyo*



## Developing and clinically deploying innovative devices in image-guided therapy- strategies and use cases

### Nobuhiko Hata

Professor, Department of Radiology  
Brigham and Women's Hospital and Harvard Medical School

**Date:** Friday, 30th, October, 2020

**Time:** AM 8:30 ~ AM 10:00

**Venue:** Zoom (will be sent after registering)

**Participants:** Up to 500 participants



Please register by this QR code or clicking the following link

[Registration Form 参加登録フォーム](#)



**Abstract:** Image-guided therapy, including image-guided medical robotics, has evolved and become prevalent in medicine since its inception in the late '80s and early '90s, incorporating breath of then-innovative technologies along the way.

Here, the key to success was to focus on creating new interventions rather than focusing on technology invention and address unmet needs in clinical care while mitigating the risk of introducing novel technologies. The scope of this talk is to introduce two parallel concepts necessary to address this key research strategy in image-guided and robotic procedures - the clinical deployment of novel imaging and robotic technologies and hypothesis - driven studies to validate the feasibility/utility/safety and risk of the technology. Specifically, the talk will introduce use cases of conceptualization, prototyping, early feasibility studies the lecturer has been involved in. The lecturer will also present the study designs used in each progressive development; participants will be expected to reflect their research on the topic covered by the speaker and be discuss their cases at the post-lecture discussions. After the course, the attendants will be able to reevaluate their graduate research on medical device development and draw trajectory for final clinical deployment to address unmet needs in medicine they identified.

**Organizer:** World-leading Innovative Graduate Study Program for Life Science and Technology  
**Cooperation:** Graduate Program for Leaders in Life Innovation, The University of Tokyo

For Further Information Contact: Nana Sekine at WINGS-LST Office  
Phone: 03-5841-0246  
E-mail: [wings-life@m.u-tokyo.ac.jp](mailto:wings-life@m.u-tokyo.ac.jp)