

IMEG Seminar Series

The road to global science



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May 23rd, 2023, 16:00-17:00

**Frogs and Reprogramming
- Unconventional Models for Kidney Disease**

This seminar series is open to all students and researchers in Kumamoto University.
The Zoom ID and passcode were sent via email. Check your inbox!

The incidence of kidney disease is increasing worldwide, but there is still limited understanding of the molecular causes of renal dysfunction and effective therapies are lacking. In this talk, I will present a novel approach to directly reprogram fibroblasts into renal tubular cells that closely resemble their physiological counterparts, using four transcription factors. Additionally, we utilize the *Xenopus* model to investigate inherited forms of kidney disease. Our recent work has identified a conserved set of HNF1B target genes that are affected by a disease-causing mutation. Through the combination of these two unconventional models, we aim to gain new insights into renal tubule development and disease.