



TEXAS A&M UNIVERSITY
Cardiovascular Research
Institute



TAMU Cardiovascular Research Institute (CVRI)
and
Japan Society for the Promotion of Science (JSPS)
Mini Symposium
“Development of Disease Models using Organ on a Chip”
October 26th and 27th, 2023

Location: Texas A&M University, Health Science Center, Bryan campus, Health Professionals Education Building, room LL11B

Thursday, October 26, 2023

11:00 AM	Registration and Lunch
12:00 – 12:45 PM	Welcome Address: Mariappan Muthuchamy, PhD Director, Cardiovascular Research Institute, Texas A&M Health Introductory Remarks: Mohammad Nasir Uddin, PhD, FAHA US – Japan Alumni, Research Associate Professor Department of Medical Physiology, Texas A&M Health Junji Urakawa, PhD Director, JSPS Washington DC Office Keiko Kabashima International Program Associate, JSPS Washington DC Office Henry Fadamiro, PhD Associate Vice President for Research, Strategic Initiatives, Professor, Department of Entomology, Texas A&M University
12:45 – 1:30 PM	Session Chair: Mohammad Nasir Uddin, PhD, FAHA Keynote speaker: Ken Takahashi, PhD Faculty of Medicine, Okayama University, Japan <i>“Development of disease modeling using organ-on-a-chip”</i>
1:30 – 1:50 PM	Break
1:50 – 2:30 PM	Abhishek Jain, PhD Department of Biomedical Engineering, Texas A&M University <i>“Pumps, pipes and AI: Engineering vascular physiology with organ-chips”</i>

- 2:30 – 3:10 PM **Sanjukta Chakraborty, PhD**
Department of Medical Physiology, Texas A&M Health
"Tumor-lymphatic interactions in metastasis: Emerging Paradigms and Unexplored Challenges"
- 3:10 – 3:50 PM **Timothy P. Devarenne, PhD**
Department of Biochemistry and Biophysics, Texas A&M University
*"Hydrocarbon Biosynthesis in the Green Microalga *Botryococcus braunii*"*
- 3:50 – 4:30 PM **Joseph Rutkowski, PhD**
Department of Medical Physiology, Texas A&M Health
"Targeting lymphatics for the treatment of kidney inflammation"
- 4:30 – 6:00 PM Social, Hors D'oeuvres

Friday, October 27, 2023

- 7:30 – 8:30 AM Breakfast
- 8:30 – 9:10 AM **Session Chair: Mohammad Nasir Uddin, PhD, FAHA**
Komariah, S. TP, PhD
Sebelas Maret University, Indonesia
"The Effects of Environmental Stress on Medicinal Plants in Indonesia"
- 9:10 – 9:50 AM **Peter P. Nghiem, PhD**
Department of Veterinary Integrative Biosciences, Texas A&M University
"Gene Therapy Development: Are We on the Right Track?"
- 9:50 – 10:00 AM **Concluding Remarks:**
David C. Zawieja, PhD
Regents Professor and Department Head,
Department of Medical Physiology, Texas A&M Health
- 10:00 – 11:00 AM Round Table discussion