



**The 7th Joint Symposium between IBB/TMDU and Chulalongkorn University
on “Biomedical Materials and Engineering”**

Date: December 22, 2020 **Venue:** Zoom

Thailand Time	Japan Time	
7:30 – 7:40	9:30 – 9:40	Opening remarks Assoc.Prof.Dr.Mana Sriyudthsak, Fac. of Eng., CU Prof.Dr.Hiroyuki Kagechika, Director, IBB, TMDU
7:40 – 7:50	9:40 – 9:50	MEMS-based biosensors for nucleic acid analysis Prof.Dr.Yuji Miyahara, IBB, TMDU
7:50 – 8:00	9:50 – 10:00	Development of rhythm-based and morphology-based Algorithm for atrial fibrillation detection from single lead ECG signal Asst.Prof.Dr.Pakpum Somboon, Fac. of Eng., CU
8:00 – 8:10	10:00 – 10:10	Detection of membrane proteins in living cells with biotransistors Asst.Prof.Dr.Miyuki Tabata, IBB, TMDU
8:10 – 8:20	10:10 – 10:20	To be announced Asst.Prof.Dr.Kittiwat Khumwan, Fac. of Medicine, CU
8:20 – 8:30	10:20 – 10:30	Biochemical acetone gas sensor for non-invasive and real-time assessment of lipid metabolism Asst.Prof.Dr.Koji Toma, IBB, TMDU
8:30 – 8:40	10:30 – 10:40	To be announced Dr.Charusluk Viphavakit, Fac, of Eng., CU
8:40 – 8:50	10:40 – 10:50	Mid-size drugs based on peptidomimetics Prof.Dr.Hirokazu Tamamura, IBB, TMDU
8:50 – 9:00	10:50 – 11:00	AI for drug repurposing, discovery and retrosynthesis Dr.Duangdao Wichadakul, Fac. of Eng, CU
9:00 – 9:10	11:00 – 11:10	Development of bioceramics for treatment of cancer and bone disease Prof.Dr.Masakazu Kawashita, IBB, TMDU
9:10 – 9:20	11:10 – 11:20	Microfluidic chip for dynamic cell culture Assoc.Prof.Dr.Alongkorn Pimpin, Fac. of Eng., CU
9:20 – 9:30	11:20 – 11:30	Strengthening of titanium alloy by severe plastic deformation for dental narrow implants Asst.Prof.Dr.Maki Ashida, IBB, TMDU
9:30 – 9:40	11:30 – 11:40	Mechanism of natural products against aging and neurodegeneration Asst.Prof.Dr.Tewin Tencomnao, Fac. of Allied Health Science, CU
9:40 – 10:50	11:40 – 11:50	Development of paper-based 3D cell culture devices and real-time biosensing applications Dr.Naricha Pupinyo, Fac. of Allied Health Science, CU
9:50 – 10:00	11:50 – 12.00	Kinase inhibitors for anti-cancer drugs Asst.Prof.Dr.Kohei Tsuji, IBB, TMDU
10:00 – 10.10	12.00 – 12.10	To be announced Dr.Acharee Suksuwan, Halal Science Center., CU
		Break

11:00 – 11:10	13:00 – 13:10	Research experiences in TMDU Mr.Satit Rodphukdeekul, Fac, of Eng., CU and IBB, TMDU
11.10 – 11.40	13.10 – 13.40	Learning opportunity Prof.Dr.Hiroyuki Kagechika, Director, IBB, TMDU Prof.Dr.Yuji Miyahara, IBB, TMDU