

LINK-J & UC San Diego Joint Webinar Series 第12回 with 慶應大学

再生医療と 計算神経科学 における最新の展望

New Horizons in Regenerative Medicine and
Computational Neurobiology *Session 5 Brain Organoids*



Dr. Gert Cauwenberghs



Dr. Hideyuki Okano



Dr. Alysson Muotri



Dr. Hiroko Shimada

今回5回目のセッションとなるLINKJ & UC サンディエゴおよび慶應義塾大学とのジョイントウェビナーでは、UC サンディエゴのAlysson Muotri先生と慶應義塾大学の嶋田弘子先生が、脳オルガノイドを用いたヒトの神経発達や認知症のモデリングに関する最近の研究についてお話しします。このウェビナーでは両校のGert Cauwenberghs先生と岡野栄之先生がモデレーターとなり、ディスカッションを行います。

(使用言語：英語 ※同時通訳あり)

詳細：<https://www.link-j.org/event/post-5738.html>
主催：LINK-J 共催：UC San Diego
お問合せ：LINK-J事務局 contact@link-j.org

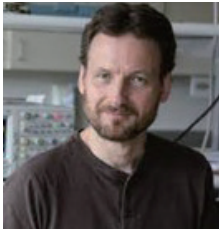
2023
4.25 火

9:00am - 10:15am

Zoom Webinar
事前登録こちら >>



Biography



Dr. Gert Cauwenberghs, Ph.D.

Professor of Bioengineering and Co-Director of the Institute for Neural Computation at UC San Diego

He received the Ph.D. in Electrical Engineering from Caltech in 1994, and was previously Professor of Electrical and Computer Engineering at Johns Hopkins University, and Visiting Professor of Brain and Cognitive Science at MIT. He co-founded Cognionics Inc. and chairs its Scientific Advisory Board. His research focuses on neuromorphic engineering, adaptive intelligent systems, neuron-silicon and brain-machine interfaces, and micropower biomedical instrumentation. He is a Fellow of the Institute of Electrical and Electronic Engineers (IEEE) and the American Institute for Medical and Biological Engineering (AIMBE), and a Francqui Fellow of the Belgian American Educational Foundation. He received the NSF Career Award, ONR Young Investigator Award, and Presidential Early Career Award for Scientists and Engineers.



Dr. Hideyuki Okano, M.D., Ph.D.

Professor and Chair of the Department of Physiology at Keio University School of Medicine

He received M.D. in Physiology from Keio University in 1983. After he obtained a Ph.D. degree in Molecular Biology of Myelin-related genes and myelin deficient mutant mice from Keio University in 1988, he held a post-doctoral position at Dr. Craig Montell's lab at Johns Hopkins University School of Medicine. He was appointed full professor at Tsukuba University School of Medicine in 1994, Osaka University School of Medicine in 1997, and returned to Keio University Medical School in 2001 as a full professor of Physiology. He has been conducting basic research in the field of regenerative medicine including neural stem cells and iPS cells, spinal cord injury, developmental genetics, and RNA binding proteins. He has been awarded a number of awards and honors including the Medal with Purple Ribbon in 2009, the first prize of the 51st Erwin von Bälz Prize in 2014, and the Uehara Prize in 2022.



Dr. Alysson Muotri, Ph.D.

Professor of Pediatrics and Cellular & Molecular Medicine; Co-Director of Stem Cell Program, UC San Diego

Dr. Muotri is a professor at the Departments of Pediatrics and Cellular & Molecular Medicine at UC San Diego. He is also the Director of the Stem Cell Program and Archealization Center. Dr. Muotri earned a BSc in Biological Sciences from the State University of Campinas in 1995 and a Ph.D. in Genetics in 2001 from the University of Sao Paulo, in Brazil. He moved to the Salk Institute as Pew Latin America Fellow in 2002 for a postdoctoral training in the fields of neuroscience and stem cell biology. His research focuses on brain evolution and modeling neurological diseases using human induced pluripotent stem cells and brain organoids.



Dr. Hiroko Shimada, Ph.D.

Project Assistant Professor, Department of Physiology, Keio University School of Medicine

Hiroko Shimada is a project assistant professor at Keio University School of Medicine. After she received her master's degree at the University of Tokyo, she worked as a researcher at a pharmaceutical company. In 2008, she began to focus on stem cell biology at Keio University School of Medicine, where she received her Ph.D. in 2013. She did postdoctoral research at the National Eye Institute, NIH for the generation of retinal organoids. She returned to Japan in 2017 and have been working on forebrain organoids to model dementia.

Program

APR 25 (JST)	APR 24 (PDT)	Agenda
9:00 - 9:02	5:00 - 5:02	Welcome – Akihiko Soyama, LINK-J and Miwako Waga, UC San Diego
9:02 - 9:05	5:02 - 5:05	Remarks – Dr. Hideyuki Okano, MD, PhD, Professor and Chair of the Department of Physiology at Keio University School of Medicine and Dr. Gert Cauwenberghs, PhD, Professor of Bioengineering and Co-Director, Institute for Neural Computation, UC San Diego
9:05 - 9:35	5:05 - 5:35	Presentation and Q&A– "Modeling Human Neurodevelopment With Brain Organoids" Dr. Alysson Muotri, PhD, Professor of Pediatrics and Cellular & Molecular Medicine; Co-Director of Stem Cell Program, UC San Diego
9:35 - 10:00	5:35 - 6:00	Presentation – "Modeling Alzheimer's Disease and Tauopathy in Forebrain Organoids" Dr. Hiroko Shimada, PhD, Project Assistant Professor, Department of Physiology, Keio University School of Medicine
10:00 - 10:14	6:00 - 6:14	Q&A and Discussion – moderated by Drs. Okano and Cauwenberghs
10:14 - 10:15	6:14 - 6:15	Closing Remarks – Akihiko Soyama

Registration

<https://www.link-j.org/event/post-5738.html> 視聴ご希望の方は URL より事前登録をお願いいたします