ENGINEERED NANO MEDICINE

ナノテクノロジーが拓く未来医療 2020 123 grad Nihonbashi Life Science HUB 12:30-5:30 Doors Open12:00 (4:30 - 5:30 Networking & Reception)

DRUG DELIVERY SYSTEMS AND PLATFORMS

LINK-J, in close collaboration with University of California San Diego (UC San Diego), will host a special symposium titled "Engineered Nanomedicine: Drug Delivery Systems and Platforms" on January 23, 2020. Nanomedicine and nano-based drug delivery systems are rapidly developing science where materials in the nanometer length scale are employed to serve as means of diagnostic tools or to deliver therapeutic agents to specific targeted sites in a controlled manner. We invite US and Japanese experts and discuss the recent developments and future prospects in an attempt to promote international university-industry research partnerships and expedite the translation of academic research work into practical applications.



Speakers



Dr. Liangfang Zhang Professor of Nanoengineering, Bioengineering, and Chemical Engineering, University of California San Diego Dr. Liangfang Zhang received his B.E. and M.S. degrees in Chemical Engineering from Tsinghua University, and his Ph.D. in Chemical & Biomolecular Engineering from the University of Illinois at Urbana-Champaign in 2006 under the supervision of Prof. Steve Granick. He was a postdoctoral associate in the laboratory of Prof. Robert Langer at MIT during 2006-2008. He joined the Department of Nanoengineering at UC San Diego as an Assistant Professor in July 2008 and was promoted to Professor in July 2014. Dr. Zhang's research interests focus on biomimetic nanomedicine, with a particular interest in creating and evaluating nanostructured biomaterials for drug delivery, detoxification and vaccination for treatment of infectious diseases and cancer. He has published 197 peer-reviewed articles and holds 96 issued/pending patents.

Dr. Kazunori Kataoka Director General of Innovation Center of NanoMedicine (iCONM), Kawasaki Institute of Industrial Promotion / Professor at Institute for Future Initiatives, The University of Tokyo

Dr. Kataoka received his Ph.D. degree in polymer chemistry from the University of Tokyo in 1979. He joined the faculty at Tokyo Women's Medical College (1979-1989) and then at Tokyo University of Science (1989-1998). He moved to the University of Tokyo on 1998 as full Professor of Biomaterials at Graduate School of Engineering. He has been appointed joint position as Professor of Clinical Biotechnology at Center of Disease Biology and Integrative Medicine, the University of Tokyo Medical School (2004~2016). Since 2016, he has assumed Director General at Innovation Center of NanoMedicine (iCONM), Kawasaki Institute of Industry Promotion.



Dr. Kanjiro Miyata Associate Professor, Department of Materials Engineering, Graduate School of Engineering, The University of Tokyo. Dr. Miyata recieved his Ph.D. at the Department of Materials Engineering, Graduate School of Engineering, The University of Tokyo. He was an Assistant Professor at the Department of Bioengineering, Graduate School of Engineering, The University of Tokyo (2006-2009). Then he moved to the Center for Disease Biology and Integrative Medicine, Graduate School of Medicine, The University of Tokyo, as an Assistant Professor (2009-2012) and Associate Professor (2012-2017). He is Associate Professor, Department of Materials Engineering, Graduate School of Engineering, The University of Tokyo at present from 2016.



Dr. Ester J. Kwon Assistant professor, Nanoscale Bioengineering, University of California San Diego

Dr. Kwon earned her B.S. in Bioengineering and B.A. in Molecular & Cell Biology at UC Berkeley. She went on to earn her Ph.D. at the University of Washington in Bioengineering with Suzie H. Pun, where she engineered polymeric nanoparticles that were grafted with peptides to give them biological function for the delivery of therapeutic nucleic acid into the central nervous system. She went on to postdoctoral research in the laboratory of Sangeeta N. Bhatia at the Massachusetts Institute of Technology. Her lab in the Bioengineering Department at UCSD is interested in engineering nanoscale tools, diagnostics, and treatments for diseases of the central nervous system. Dr. Kwon is a recipient of the pre- and post-doctoral NIH Ruth L. Krischstein National Research Service Awards and the NIH Director's New Innovator award. http://kwon.ucsd.edu



Dr. Hiromichi Kimura Project Leader and Visiting Professor, Innovation Center of NanoMedicine (iCONM), Kawasaki Institute of Industrial Promotion / Professor at Institute for Future Initiatives, The University of Tokyo / CEO and Managing Partner, Fast Track Initiative, Inc.

Dr. Kimura received his Ph.D. in pharmaceutical sciences from the University of Tokyo and received an MBA at the Graduate School of Business at Stanford University. He joined several companies, including J.P. Morgan, as Executive Vice President, President and CEO. He founded his own consulting firm, Life Science Management Inc. and a life science / healthcare venture capital firm, Fast Track Initiative Inc.. Dr. Kimura became a Visiting Professor of the University of Tokyo in 2016. He is also a Project Leader of Center of Open Innovation Network for Smart Health (COINS), The Center of Innovation (COI) Program, and a trustee of Keizai Doyukai [Japan Association of Corporate Executives] and the director of Stanford Alumni Association in Japan. He is a Project Professor of Life Style by Design Research Unit, Institute for Future Initiatives of the University of Tokyo since 2018 November.

Program (with simultaneous translation)

12:00	Doors Open
12:30 - 12:40	Opening Remarks Miwako Waga (Director, International Outreach Office of Research Affairs, UCSD) Akihiko Soyama (CEO, LINK;))
12:40 - 1:25	Dr. Liangfang Zhang "Discovery and Translation of the Cell Membrane Coating Nanotechnology"
1:25 - 1:55	Dr. Kazunori Kataoka "Self-assembled Supramolecular Nanosystems for Smart Diagnosis and Targeted Therapy of Intractable Diseases"
1:55 - 2:05	Break
2:05 - 2:35	Dr. Kanjiro Miyata "Nanopharmaceutical design to break through biological barriers"
2:35 - 3:05	Dr. Ester Kwon "Bioinspired nanomedicine that interacts with host biology"
3:05 - 3:35	Dr. Hiromichi Kimura "Developing Social Experiments in Tonomachi: Destinations for the Next Generation Ecosystem"
3:35 - 3:45	Break
3:45 - 4:30	Panel Discussion
4:30 - 5:30	Networking Reception

Registration

Register through peatix:

https://ucsd2020.peatix.com



LINK-J Members ¥1,000 / Non-Members ¥5,000 Supporters and Students Free ** Supporters & Members : Contact us for the discount code

Access

Tickets

Nihonbashi Life Science HUB (8F., Muromachi Chibagin Mitsui Building) 1-5-5, Nihonbashi Muromachi, Chuo-ku, Tokyo 103-0022 Nihonbashi-Muromachi Misui Tower United Koshimae Sta Nihonbashi Misui Rober Bank of Japan Misui Main Bilg: Misui Koshimae Sta Nihonbashi Man Bilg: Misui Koshimae Sta Nihonbashi Muromachi 3 Misui Koshimae Sta Misui Koshimae Sta Misui Koshimae Sta Misui Koshimae Sta



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