

Short Biography



Personal Information.
Makoto Nakamura, M.D., Ph.D.

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Dr. Makoto Nakamura graduated from the department of medicine, Kobe University in 1986. After obtaining the license of a medical doctor, he developed his clinical skills in Kanazawa University and worked as a clinical pediatrician for 10 years. He specialized in pediatric cardiology.

After receiving his Ph.D. degree from Kanazawa University, he started research on artificial heart. In 1996, he moved to the National Cardiovascular Center of Japan. In 1999, he was appointed as associate professor at the Tokyo Medical and Dental University. During these studies, he learned about the limitations of mechanical artificial organs, and he started his researches on tissue engineering. He focused on an innovative approach by applying printing technology, which is now called Bioprinting. He developed an inkjet 3D-bioprinter supported by the Kanagawa Academy of Science and Technology (KAST: by Kanagawa prefecture, Japan) from 2005 to 2008. He became a professor of the University of Toyama after this project. He is now pursuing the creation of advanced technologies for 3D tissue engineering or organ engineering.

He has contributed to the progress of the research on Bioprinting and biofabrication. He has contributed to the establishment of the international society for biofabrication (ISBF) as an inaugural board member. And, he has organized several international symposia, such as the 3rd International Symposium on Bioprinting & Biofabrication in Kawasaki, Japan in 2006, Bioprinting & Biofabrication in Bordeaux (3B's) in 2009, Biofabrication 2011 in Toyama (the 2nd annual conference of ISBF in 2011) in Japan, and the International Bioprinting Congress in Singapore in 2014, as an organizer or co-chair.

In 2013, he became the head of the Department of Life Science and Bioengineering, Faculty of Engineering, University of Toyama and now manages the education and research activities of the department.

Research Interests:

1. Tissue Engineering and Regenerative Medicine
 - Development of Bioprinting and Biofabrication, and Computer aided tissue engineering
 - Application of Bio-artificial tissues and organs
2. Bio-medical engineering
 - Application of engineering to bio-medical and pharmaceutical field