



EMINENT SCIENTIST OF THE YEAR 2017 ASIA



Dr. Yoichiro Yamamoto

Dr. Yoichiro Yamamoto – an eminent scientist and an expert in the field of medicine and computer science/mathematics especially including Artificial Intelligence (AI) is presently working as a unit leader of Pathology Informatics Unit at RIKEN Center for Advanced Intelligence Project in Japan. He holds Japanese board certifications in Pathology and Cytology.

Dr. Yamamoto received his M.D. degree from Tohoku University, School of Medicine in 2004. After residency training, he started Ph.D. research under the tutelage of Prof. Manabu Fukumoto – one of the leading scientists in the radiation biology and pathology field. He received his Ph.D. degree from Tohoku University, Graduate School of Medicine in 2009. His Ph.D. thesis focused on the cell dynamics in the carcinogenesis process. The researches resulted in publications in the several fields such as cancer research field and medical physics field.

Since then, Dr. Yamamoto worked as an assistant professor of the Division of Diagnostic Pathology at Nippon medical school hospital. From 2012, he visited USA several times and researched mathematical modeling of cancer cell dynamics as a visiting scientist at Mayo clinic and as a guest researcher of Program for Evolutionary Dynamics at Harvard University.

This mathematical research led to his current Artificial Intelligence research. In 2013, he became Assistant Professor of Department of Pathology at Shinshu University School of Medicine, Japan. In 2014-2015, he got engaged with a research on computer science as a visiting scientist at University of Heidelberg in Germany, and became successful in developing the novel method of combining pathology and machine learning.

Dr. Yamamoto became the unit leader of Pathology Informatics Unit at RIKEN in 2017. The mission of his unit is to discover novel disease mechanisms and therapies through state-of-the-art Artificial Intelligence technologies and medical research.

Dr. Yamamoto was selected by the World Scientists Forum for “Eminent Scientist of the Year 2017” international award for his research innovations and outstanding contributions in the field of science and medicine especially in combining Advanced Artificial Intelligence and Computer Science with Medical Research and Carcinogenesis.