

### **Biography of Ayako Takeuchi**

Ayako Takeuchi is an Associate Professor in the Department of Integrative and Systems Physiology at University of Fukui, Japan. She graduated from Kyoto University, Faculty of Pharmaceutical Sciences in 1998, and received a PhD in 2003. She started a “physiome study”—a combination of experiments and mathematical modelling—on cardiac cell volume regulation in the Department of Physiology and Biophysics, Kyoto University Graduate School of Medicine (Prof. A. Noma’s lab) in 2004-2006. She carried out structure-function studies of Na<sup>+</sup>-K<sup>+</sup> ATPase in the Cardiac/Membrane Physiology at Rockefeller University (Prof. D. Gadsby’s lab) in 2007-2008. After coming back to Japan, she has been studying on mitochondrial Ca<sup>2+</sup> dynamics to elucidate the physiological roles in the Department of Physiology and Biophysics, Kyoto University Graduate School of Medicine (2009-2013) and in the Department of Integrative and Systems Physiology at University of Fukui (2013-).