

# Dawn and Development of Channelopathy: How I Develop My Scientific Careers

**Toshio Narahashi, D.V.D., Ph.D.**

**John Evans Professor of Pharmacology**

**Northwestern University Feinberg School of Medicine, USA**

**Date: Tuesday, March 6, 2012**

**Time: 16:00 – 17:30**

**Venue: Minami-Kan, Room No. 455 (Daigakuin Kogishitsu),  
Grad. School of Pharm. Sci., The University of Tokyo**



Studies of ion channel physiology and pharmacology began when the selective and potent sodium channel blocking action of tetrodotoxin (TTX) was discovered in the early 1960s. Another noticeable event was the development of patch clamp techniques in the late 1970 as a modification of voltage clamp which was originally invented in 1949. By combining with molecular biology approaches, the science of ion channels and neuroreceptors now covers hundreds of different ion channels as related to the normal and pathological states. I will describe some of the developments I witnessed during the past 60 years of my career, and will analyze how various concepts and ideas have contributed to bring us to the current status of science.

**Organizer: GCOE Program Center for Medical System Innovation through Multidisciplinary Integration,  
The University of Tokyo**  
**Prof. Chiharu Tohyama, Lab. Environ. Health Sci., Center for Disease Biology and Integrative  
Medicine, Graduate School of Medicine, The University of Tokyo**  
**Prof. Norio Matsuki, Lab. Chem. Pharmacol., Graduate School of  
Pharmaceutical Sciences, The University of Tokyo**

**Cooperation: Center for NanoBio Integration, The University of Tokyo**

**For Further Information Contact: Kiyoko Jarnes at CMSI Office**

**Phone: 03-5841-1509 / Fax: 03-5841-1510**

**E-mail: [jarnes@cnbi.t.u-tokyo.ac.jp](mailto:jarnes@cnbi.t.u-tokyo.ac.jp)**

**Registration: <http://park.itc.u-tokyo.ac.jp/CMSI/>**

