

Dawn and Development of Channelopathy: How I have Developed My Scientific Careers

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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.

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