

SY-07

Room A October 2 (Tue.) 16 : 45~18 : 45

Ah receptor: relevance to xenobiotic metabolism and physiological processes

Chair : Masutaka Furue Department of Dermatology, Kyushu University and
 Research and Clinical Center for Yusho and Dioxin
 Bhagavatula Moorthy Baylor College of Medicine, TX, USA

SY-07-01**Structural allostery for endogenous and aberrant AHR signaling**

Yongna Xing

McArdle Laboratory for Cancer Research, University of Wisconsin-Madison, WI, USA



2002 Ph.D., Molecular Genetics and Microbiology, Joint Program of Molecular Biology of Rutgers University and University of Medicine and Dentistry of New Jersey, USA
 2008-2014 Assistant Professor, Department of Oncology University of Wisconsin at Madison
 2014-now Associate Professor, Department of Oncology University of Wisconsin at Madison
 2011-present Affiliated faculty, Morgridge Institute for Discovery University of Wisconsin at Madison

Honors and Awards

Fudan University People's Scholarship (1991-1994)
 Fudan University Institute of Genetics Fellowship (1994-1997)
 Rutgers/UMDNJ Joint Program of Molecular Biology Graduate School Fellowship (1997-2002)
 K01 Howard Temin Career Developmental Award from National Cancer Institute (NCI) (2007-2012)
 ACS Research Scholar from American Cancer Society (ACS) (2010-2014)
 Shaw Scientist Award (2011-2020)

SY-07-02

Ah receptor: relevance to xenobiotic metabolism and physiological processes, AHR and skin

Masutaka Furue

Department of Dermatology, Kyushu University and Research and Clinical Center for Yusho and Dioxin



He was graduated from School of Medicine, University of Tokyo as M.D. in 1980, and received Ph.D. from University of Tokyo in 1986. He worked under Dr. Stephen I. Katz as a research fellow in Dermatology Branch, National Institutes of Health, Bethesda, U.S.A. from 1986 to 1988. He was an Associate Professor, Yamanashi Medical University from 1992 to 1995, and moved to University of Tokyo as an Associate Professor in 1995. He has been a Chairman and Professor of Department of Dermatology, Kyushu University since 1997. He had been served as Vice Director of Kyushu University Hospital and Vice Dean of Faculty of Medical Sciences, Kyushu University. His interests are in the areas of atopic dermatitis, cutaneous neoplasms, dioxins/pollutants and antioxidants. From 2001, he has been a chief of Yusho (dioxin intoxication) study in Japan. He was the Presidents of many scientific meetings including the 10th International Symposium on Dendritic Cells in Fundamental and Clinical Immunology in 2008; the 108th annual meeting of the Japanese Dermatological Association in 2009; First Eastern Asia Dermatology Congress, 2010; and the 13th annual meeting of the Japanese Pressure Ulcer Society, 2011. He has served Editor-in-Chief, Journal of Dermatology, from 2014.

SY-07-03

Mechanistic role of CYP1 family in oxygen-mediated lung toxicity: Novel function of the endogenous Ah receptor ligand FICZ in CYP1 induction and hyperoxic injury

Bhagavatula Moorthy

Baylor College of Medicine, TX, USA



Dr. Moorthy received his Ph.D. (1989) from the Indian Institute of Science, Bangalore, India. He has 35 year experience in studying the molecular role and regulation of cytochrome P450 (CYP) enzymes in xenobiotic metabolism, carcinogenesis, and hyperoxic lung injury. He underwent postdoctoral training at the Medical College of Wisconsin, Milwaukee, WI (1988-90), and joined the Department of Pharmacology at Baylor College of Medicine in 1990 as Research Associate, and was promoted to Instructor and Research Assistant Professor in 1992 and 1994, respectively. He joined the Section of Neonatology in the Department of Pediatrics at Baylor in 1995, and he has been continuing his studies on the regulation of CYP1A enzymes, in relation to carcinogenesis. He earned tenure at Baylor in 2005, and was promoted to full professor in 2011. He is currently the Director of the Neonatology Research Program at Baylor. He is currently focusing on the molecular role of P4501A and 1B1 enzymes in hyperoxic lung injury, in relation to BPD and ARDS. He is also determining the role of endogenous ligands of the Ah receptor in the induction of CYP1A by hyperoxia, which in turn leads to protection against hyperoxic injury. He has published over 100 papers in peer-reviewed journals and has received substantial extramural funding from the NIH. He has served in over 80 NIH and other review panels. He is currently Associate Editor of Toxicology and Applied Pharmacology, and is on the editorial board of several journals.

SY-07-04**The critical role of aryl hydrocarbon receptor in dioxin-induced disorders in next generations**

Yuji Ishii

Graduate School of Pharmaceutical Sciences, Kyushu University



BSc 1988 Pharmaceuti Sci. Fukuoka University, Japan.
 Master 1990 Pharmaceuti Sci. Grad Sch Pharmaceuti Sci, Kyushu University
 Ph.D. 1995 Pharmaceuti Sci, Grad Sch Pharmaceuti Sci, Kyushu University
 1993-1999 Instructor, Fac Pharmaceuti Sci, Kyushu University, Fukuoka, Japan
 1997-1998 Visiting Post Doctoral Fellow, Dep Clin Pharmacol, Flinders Medical Centre, Bedford Park, South Australia, Australia
 1999-2001 Instructor, Grad Sch Pharmaceuti Sci, Kyushu University
 2001-2003 Lecturer, Inst Commun Med, University of Tsukuba, Ibaraki, Japan
 2003- Associate professor, Grad Sch Pharmaceuti Sci, Kyushu University

Summary of Awards, Honors:

The JSSX Young Investigator Award from the JSSX in 2008.

The Scientific Award, the Division of Pharmaceutical Health Science and Environmental Toxicology, the Pharmaceutical Society of Japan, 2018.

SY-07-05**Aryl hydrocarbon receptor regulates cell proliferation and CYP expression in 3D spheroids of human lung cancer cells**

Yoko Jimma

Pharmacodynamics and Molecular Genetics, Graduate School of Pharmacy, Iwate Medical University



2014 B.S. in School of Pharmacy, Iwate Medical University
 2014 Ph.D. student in Graduate School of Pharmacy, Iwate Medical University