

Pacifichem2021

New Frontier of Chemical Probes exploring Biology and Medicine (#350)

Oral Session: In Person

Friday, December 17, 2021 (HST)

【AM Session】

8:00-8:20 **Dyrager, Christine**, Uppsala University, Sweden

Development of benzothiadiazole derivatives for specific imaging of lipid droplets in cancer cells

8:20-8:40 **Nguyen, Jade** EPFL; ETHZ, Switzerland

A robust ratiometric HaloTag reporter system for gene expression monitoring

8:40-9:00 **Guo, Maolin**, University of Massachusetts Dartmouth, USA

Novel chemical probes exploring and quantifying biology and medicine

9:00-9:20 **Kelly, Aya M**, University of Illinois at Urbana-Champaign, USA

Unbiased Assessment of P-gp Efflux Toward the Design Blood-Brain Barrier Penetrating Compound

9:20-9:40 **Pflum, Mary Kay**, Wayne State University, USA

ATP analogs to probe kinase-mediated cell signaling

9:40-10:00 **Westberg, Michael**, Stanford University, USA; Aarhus University, Denmark

Rational design of preorganized ketoamide-based protease inhibitors for the potential treatment of coronavirus diseases

10:00-10:20 **Seath, Ciaran**, Princeton University, USA

New methods for photocatalytic proximity labelling

10:20-10:40 **Rössner, Simon**, Massachusetts Institute of Technology, USA

Next-generation combinatorial libraries

10:40-11:00 **Bachmann, Andre**, Michigan State University, USA

Novel ODC Inhibitor Drug Design and Bioactivity in Pediatric Cancer Neuroblastoma

11:00-11:20 **Kwong, Ada**, Northwestern University, USA

Design, synthesis, and evaluation of MEK4 inhibitors as novel molecular probes

【PM Session】

13:00-13:30 **Uesugi, Motonari**, Kyoto University, Japan

Self-Assembling Bioactive Small Molecules

13:30-14:00 **Park, Seung Bum**, Seoul National University, Korea

FITGE-based Target Identification: New Tool in Chemical Biology

14:00-14:30 **Osada, Hiroyuki**, RIKEN, Japan

NPD10084, a small molecule inhibitor of PKM2, identified by the newly developed 2DE-CETSA

14:30-15:00 **Young-Tae Chang**, POSTECH, Korea

New Paradigm for Cell Specific Fluorescent Probe Development

15:00-15:20 **Nishimura, Shin-ichiro**, Hokkaido University, Japan

Antibodies recognizing dynamic neoepitopes generated by cancer-specific truncated immature O-glycosylation

Oral Session: Virtual

Sunday, December 19, 2021 (JST)

【Virtual Session】

13:00-13:30 **Ueda, Minoru**, Tohoku University, Japan

Chemical approach to dissect the plant hormone signaling

13:30-14:00 **Qi, Jianhua**, Zhejiang University, P. R. China

Signaling molecules for reproduction of phytopathogenic microorganisms

14:00-14:30 **Nishikawa, Toshio**, Nagoya University, Japan

A Unified Synthesis of Aplysiatoxin/Oscillatoxins, Hawaiian Marine Natural Products

14:30-15:00 **Zhu, Feng**, Zhejiang University, P. R. China

Clinical trials, progression-speed differentiating features, and swiftness rule of the innovative targets of first-in-class drugs

15:00-15:20 **Sakurai, Kaori**, Tokyo University of Agriculture and Technology, Japan

Chemical probe-based approach for functional analysis of anticancer saponin OSW-1

15:20-15:40 **Li, Xin**, Zhejiang University, P.R. China

Tracking Nitric Oxide Dynamics in Live Cells with Novel Imaging Tools

15:40-16:00 **Liu, Yanan**, Ph. D student, Zhejiang University, P.R. China

Inokosterone prolongs the lifespan of yeast by regulating oxidative stress and autophagy

16:00-16:20 **Shimoyama, Atsushi**, Osaka University, Japan

Synthesis and Immunological Functions of Symbiotic Bacterial Lipopolysaccharide Partial Structures

16:20-16:40 **Wang, Jue**, Peking University, P.R. China

Development of the selective small molecule inhibitor as a powerful tool to reveal the complex physiological functions of tumour associated kinase

16:40-17:00 **Itoh, Hiroaki**, The University of Tokyo, Japan

Solid-phase total synthesis and target identification of yaku'amide B