

Satellite symposium #11

Title: Fukuoka Purine 2009: International Symposium on Purinergic Signalling in
New Strategy of Drug Discovery

Organizers: Kazuhide Inoue (Kyushu University) (President)

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Yasuo Sugiura (Nagoya, Japan)

Kazuo Umemura (Hamamatsu, Japan)

Yoshihiro Urade (Osaka, Japan)

Masahito Kawatani (Akita, Japan)

Speakers: Doug Fields

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Jochen W. Deitmer

Knut Biber

Rodrigo Cunha

Jean-Marie Boeynaems

Mariapia Abbracchio

Francesco Di Virgilio

Shumin Duan

Maria Teresa Miras-Portugal

Ivana Novak

G. Burnstock

Mike Salter

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Date: 23-25 July, 2009

Venue: The LUIGANS Fukuoka, Japan

Outline: Recently, very important roles of extracellular purines have been

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clarified by Japanese scientific groups. For example, a stimulation of P2X4 expressed on spinal microglia causes BDNF release from these cells resulting in neuropathic pain (Tsuda et al., Nature, 2003; Coull et al., Nature, 2005). ATP has very important role for evoking vascular endothelial cell response against bloodstream shearing stress (Yamamoto et al., Nat Med, 2006). A stimulation of P2Y6 expressed on microglia causes phagocytosis (Koizumi et al., Nature, 2007). Moreover, ATP released from enterobacterium causes intractable disease Crohn's disease (Atarashi et al., Nature, 2008). Besides, the mechanisms of these findings exceed a limit of conventional textbook conception, and purines are going to open a door of new research field of bio-functional control. The aim of this international symposium is to collect globally superb scientists of the field for exchanging information and making discussion to find new drug seeds.

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