

Advances in Amino Acid Research in Human Health and Disease

Date and Time: October 4, 2009 at 14.00 – 17.00 hrs.

Venue: Bangkok International Trade and Exhibition Centre (BITEC)

Organizer:

Japanese Society for Amino Acid Sciences (JSAAS)

Co-organized with:

Japanese Society of Nutrition and Food Science (JSNFS)

International Council on Amino Acid Science (ICAAS)

Purpose

Recently, the field of amino acid science has shown remarkable progress, both from the basic and the clinical research perspectives. This satellite symposium deals with exciting topics in this area, including amino acid transporters and intracellular signaling, amino acid metabolism during the human life cycle from infancy to aging, and in critical illness. Additionally, novel advanced techniques will be applied to medical applications, such as quantitative proteomics, bioinformatics, and a new clinical "Amino Index", which will open new areas of amino acid research.

Session chair and moderators

Motoni Kadowaki, PhD, Niigata University, Niigata, Japan

Dennis M. Bier, MD, Baylor College of Medicine, Houston, USA

Program

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|-------------|---|
| 14:00-14:05 | <i>Opening Remarks</i> |
| 14:05-14:30 | <i>Amino acid transporters in cancer: relevance to its diagnosis and therapeutics</i>
Yoshikatsu Kanai, PhD, Osaka University, Osaka, Japan |
| 14:30-14:55 | <i>Beyond amino acids: quantifying posttranslational changes in proteins in Nutrition and Physiology</i>
Dwight E. Matthews, PhD, The University of Vermont, Burlington, VT, USA |
| 14:55-15:20 | <i>Potential use of amino acids in identifying nutritional and disease states</i>
Takeshi Kimura, PhD, Ajinomoto Co., Ltd., Tokyo, Japan |
| 15:20-15:40 | Coffee break |
| 15:40-16:05 | Advances in Amino Acid Metabolism in Human Infants
Satish C Kalhan, MD, Case Western Reserve University, Cleveland, OH, USA |

- 16:05-16:30 *Advances in Amino Acid Metabolism and Requirements in the Aging Human*
Naomi K. Fukagawa, MD, PhD, University of Vermont, Burlington, VT, USA
- 16:30-16:55 *Advances in Amino Acid Metabolism in the Injured Human*
Jan Wernerman, MD, Karolinska Institute, Stockholm, Sweden
- 16:55-17:00 *Closing remarks*