“The Fifth Workshop on the Assessment of Adequate Intake of Dietary Amino Acids”
Tentative Program for the 5th AAAW
The Beverly Hilton, LA, USA, October 24-25, 2005

Animal Models and Biomarkers for Assessing Adequate Intake of Sulfur-Containing Amino Acids (SAA)

1st Day
Introduction:  Dr. Luc A. Cynober / Hotel-Dieu Hospital and Paris 5 University, France  08:30
Brief introduction of the production and markets of amino acids:
   Dr. Kazunori Mawatari / Ajinomoto Co., Inc. Kawasaki, Japan   08:40
Overview: The Joy of the Sulfur-Containing Amino Acids
   Dr. John T. Brosnan / Memorial University of Newfoundland, Canada  08:50

Session 1: Metabolism and functions of sulfur-containing amino acids
Session Chair: Dr. David H. Baker / University of Illinois, Urbana, USA
   1. The nutritional companionship linking sulfur to nitrogen in living organisms
      Dr. Yves Ingenbleek / University Louis Pasteur Strasbourg, Strasbourg, France  09:20
   2. Mammalian Cysteine Metabolism: new insights into regulation of cysteine metabolism
      Dr. Martha H. Stipanuk / Cornell University, New York, USA   09:50
      Coffee Break  10:20-10:50
   3. The influence of sulfur amino acids on immune function
      Dr. Robert F. Grimble / University of Southampton, UK  10:50
   4. Functions of sulfur-containing amino acids in lipid metabolism
      Dr. Hiroaki Oda / Nagoya University, Japan     11:20
   5. Comparative species utilization and toxicity of sulfur amino acids
      Dr. David H. Baker       11:50
      Lunch Break  12:20-13:45
      (Editors Meeting (closed)  13:00-13:45)

Session 2: Adequacy range for sulfur-containing amino acids and biomarkers for their excess
Session Co-Chairs: Dr. Dennis M. Bier / USDA/ARS Children’s Nutrition Research Center,
   Baylor College of Medicine, Houston, USA   &
   Dr. Motoni Kadowaki / Niigata University, Japan
   1. Sparing of Methionine Requirements: evaluation human data takes sulfur amino acids beyond protein
      Dr. Naomi K. Fukagawa / University of Vermont, Burlington, USA  13:50
   2. The sparing effect of cysteine on the methionine requirements in animal models and adult humans
      Dr. Ronald O. Ball / University of Alberta, Edmonton, Canada  14:20
   3. Adequacy range and biomarkers for excess: lessons from artificial nutrition
4. Sulfur amino acid metabolism in pregnancy - the impact of methionine excess  
   Dr. William D. Rees / The Rowett Research Institute, Aberdeen, UK  15:50
5. Assessing the effects of high methionine intake on DNA methylation  
   Dr. Robert A. Waterland / Baylor College of Medicine, Houston, USA  16:20

General Discussion 1:  
   16:50-18:20
   Facilitators: Dr. John D. Fernstrom / University of Pittsburgh, USA  
               & Dr. S. Harvey Mudd / The National Institute of Mental Health, Bethesda, USA

Official Dinner  
   19:00-21:00

2nd Day

Session 3: Effects of sulfur-containing amino acid excess and suggested upper limits
   Session Chair: Dr. Takeshi Kimura / Ajinomoto Co., Inc., Tokyo, Japan

1. Animal studies on sulfur-containing amino acid excess  
   Dr. Ryosei Sakai / Ajinomoto Co., Inc., Kawasaki, Japan  08:00
2. Review of methionine toxicity in humans  
   Dr. Peter J. Garlick / University of Illinois, Urbana, USA  08:30
3. Many faces of hyperhomocysteinemia  
   Dr. Jacob Selhub / Tufts University, Boston, USA  09:00
   Coffee Break  09:30-09:50
4. The Hordaland Homocysteine Study: a community-based study of homocysteine, its determinants and its associations to disease  
   Dr. Helga Refsum / University of Oxford, UK  09:50
5. Pathophysiological consequences of homocysteine excess  
   Dr. Hieronim Jakubowski / UMDNJ - New Jersey Medical School, USA  10:20
6. Inborn errors of sulfur-containing amino acid metabolism  
   Dr. James D. Finkelstein / Veterans Affairs Medical Center and The George Washington University School of Medicine, Washington, DC, USA  10:50

General Discussion 2:  
   11:20-12:50
   Facilitators: Dr. Ian C. Munro / CANTOX, Mississauga, Canada  
               & Dr. Andrew G. Renwick / University of Southampton, UK

Closing: Dr. Dennis M. Bier  12:50

Farewell Lunch  13:00-15:00

(Executive Session (closed)  13:45-15:45)