10th Fatty Acids in Cell Signaling Meeting

Docosahexaenoic Acid in Translational Medicine

6-9 November 2011, New Orleans, LA, USA

CONFERENCE VENUE
Neuroscience Center of Excellence, School of Medicine, Louisiana State University Health Sciences Center, New Orleans, LA

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Nicolas G. Bazan, Louisiana State University Health Sciences Center, New Orleans, LA

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J. Tom Brenna, Cornell University, USA
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Fatty Acids and Cell Signaling (FACS)

1st FACS: 1992 (Paris, E. Nunez)
2nd FACS: 1994 (Madison, T. Goodfriend)
3rd FACS: 1996 (Maastricht, J. Glatz)
4th FACS: 1998 (Cape Cod, M. Laposata)
5th FACS: 2001 (Gargnano, C. Galli)
6th FACS: 2003 (Bethesda, N. Salem)
7th FACS: 2005 (Paris, M. Lagarde)
8th FACS: 2007 (Quebec City, S. Cunnane)
9th FACS: 2009 (Oxford, P. Calder)
10th FACS: 2011 (New Orleans, N. Bazan)

We are very grateful to Dr. Nicos Petasis from USC, California for creating the logo of this meeting.
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CONFERENCE PROGRAM

Sunday, November 6th

1400-1800  Registration (at the Le Pavillon Hotel Lobby)

18:00  Transportation from Le Pavillon to the home of Drs. Haydee and Nicolas Bazan for a Welcome Reception

Monday, November 7th

08:00  BUS DEPARTS

08:30  Welcome
Introduction of Dr. P.C. Calder, Southampton, UK

09:00-09:45  LSUHSC Chancellor Award Lecture in Neuroscience and Medicine - Omega-3 Fatty Acids and Inflammation: New Mechanisms Emerge
Philip C. Calder, Southampton, UK

Chair: Robert McNamara

09:50-10:10  Structure and Dynamics of Polyunsaturated Fatty Acids in Phospholipids and Endogenous Cannabinoid Ligands
Klaus Gawrisch, Bethesda, USA

10:15-10:35  Protective Effects of Docosahexaenoic Acid in a Mouse Model of Neuroinflammation
Richard P. Bazinet, Toronto, Canada

10:40-10:55  COFFEE BREAK

11:00-11:20  Molecular Mechanisms for Docosahexaenoic Acid Derived Neuroprotection
Hee- Yong Kim, Bethesda, USA

11:25-11:45  Neuroprotectin D1 and DHA Homeostasis Sustains Synaptic Circuits and Neuronal Integrity in Experimental Epilepsy and Alzheimer's Disease
Nicolas G. Bazan, New Orleans, USA

11:50-12:10  Omega-3 Fatty Acids and Peripheral and Central Neurotrauma - An Update
Simon Dyall, London, UK

12:15-13:15  LUNCH BREAK
Chair:  Tom Brenna

13:20-13:40  Neuroprotectin D1 and DHA Homeostasis Rescues the Penumbra after Experimental Ischemic Stroke
             Ludmila Belayev, New Orleans, USA

13:45-14:05  DHA Enriched Fish-Oil Counteracts Age-related Cerebral Mitochondrial Dysfunction in Vivo
             Gunter Eckert, Frankfurt, Germany

             John Paul SanGiovanni, Bethesda, USA

14:35-14:55  Neuroprotectin D1 Restores Cornea Nerves Integrity and Function after Experimental Refractive Surgery
             Haydee E.P. Bazan, New Orleans, USA

15:00-15:15  COFFEE BREAK

Chair:  Stephen Cunnane

15:20-15:40  Deciphering the Role of Docosahexaenoic Acid Deficiency in Brain Function and Pathology using Magnetic Resonance Imaging
             Robert McNamara, Cincinnati, USA

15:45-16:05  Deficiencies in DHA and Risk for Suicide and High Risk Behavior
             Joe Hibbelsn, Bethesda, USA

16:10-16:30  Role of n-6 and n-3 Fatty Acids and ApoE Genotype in Amyloidosis.
             Greg M. Cole, Los Angeles, USA

16:35-17:15  Special Lifetime Achievement Award Lecture by 10th FACS Organizing Committee - Brain DHA Imaging as a Biomarker of Brain DHA Metabolism and Signaling: It’s Regulation by Diet, Liver and Selective Enzymes
             Stanley Rapoport, Bethesda, USA

17:30
BUS DEPARTS

18:00
Dinner at the Bourbon House (see attached map)

20:00
Music Event at Snug Harbor Jazz
Tuesday, November 8th

08:00  BUS DEPARTS

08:30-09:05  Special Lecture - Molecular Genetics of Highly Unsaturated Fatty Acid Biosynthesis: An Intronic Deletion Polymorphism Controls Human FADS1 (5-desaturase) Expression
            J. Thomas Brenna, Ithaca, USA

            Chair: Stanley Rapoport

09:10-09:30  Lipid Mediators in Immune Dysfunction: Game-keeper Turns Poacher
            Derek Gilroy, London, UK

09:35-09:55  Do PUFAs promote Parkinson's Disease?
            Jim Hamilton, Boston, USA

10:00-10:20  Inhibition of Pattern Recognition Receptor-mediated Signaling Pathways by Docosahexaenoic Acid
            Daniel Hwang, Davis, USA

10:25-10:40  COFFEE BREAK

            Chair: Richard Bazinet

10:45-11:05  DHA Promotes Neurogenesis: Evidence from the Fat-1 Mouse Model
            Jing X. Kang, Charlestown, USA

11:10-11:30  Mechanisms of Lymphocyte Death Induced by Docosahexaenoic and Eicosapentaenoic Acids
            Renata Gorjão, Sao Paulo, Brasil

11:35-11:55  Combination Treatment Using Omega-3 Fatty Acids and Calorie Restriction Prevents Adipose Tissue Inflammation in Mice Fed High-fat Diet
            Jan Kopecky, Prague, Czech Republic

12:00-13:00  LUNCH BREAK
13:05-13:40 Special Lecture: Novel Mechanisms in Resolving Inflammation: Functional Decoding Lipidomics
Charles N. Serhan, Boston, USA

Chair: Nicos Petasis

13:45-14:05 DHA Dose and Requirements during the Perinatal Period for Development
Maria Makrides, Adelaide, Australia

14:10-14:30 CD36 as Target to Prevent Cardiac Lipotoxicity and Insulin Resistance
Jan F.C. Glatz, Maastricht, The Netherlands

14:35-14:50 COFFEE BREAK

14:55-15:15 Novel Mechanistic Insights into the Actions of n-3 PUFA on Mucosal Biology
Robert S. Chapkin, College Station, USA

15:20-15:40 Regulators of the Fatty Acid Pathway
Bob Gibson, Adelaide, Australia

15:45-16:05 Lipidomics of Bioactive Lipids, a New Approach to Studies of Cell Signalling
Mojgan Masoodi, Cambridge, UK

16:10-15:45 Special Lecture: Omega 3 Fatty Acids: Micronutrients in Disguise
Sheila Innis, Vancouver, Canada

15:50 BUS DEPARTS

18:00 Dinner at RioMar Restaurant (see map attached)
Keynote Lecture: DHA was the Master of DNA: A New Perspective on Its Function in Cell Signaling and its Determinacy of Evolution
Michael Crawford, London, UK
Wednesday, November 9th

08:00  BUS DEPARTS

Chair: Patricia Bozza

08:30-08:50  Sunburn Inflammation: Dissecting the Role of Bioactive Lipids
Anna Nicolaou, Bradford, UK

08:55-09:15  Dose-effect and Metabolism of Docosahexaenoic Acid. Pathophysiological Relevance
Michel Lagarde, Villeurbanne, France

09:20-09:40  Fish Oil Recognizes Membrane Domain of B Cell Accompanied by Changes in Function
Saame Raza Shaikh, Greenville, USA

09:45-10:00  COFFEE BREAK

Chair: Michel Lagarde

10:05-10:25  Lipid Droplets in Innate Immunity: Regulation and Functions
Patricia Bozza, Rio de Janeiro, Brasil

10:30-10:50  A Survey of Internists and Cardiologists: Are Discoveries in Fatty Acids Truly being Translated into Clinical Practice?
Seth J. Baum, Miami, USA

10:55-11:15  Impact of Dairy Fat Diets on Brain Docosahexaenoic Acid (DHA) Levels of Young Rat
Bernadette Delplanque, Paris, France

Stephen Cunnane, Sherbrooke, Canada

12:00  Closing of the Meeting

12:30  BUS DEPARTS
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