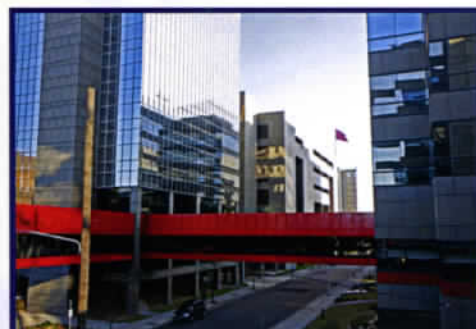




10th Fatty Acids in Cell Signaling Meeting

# 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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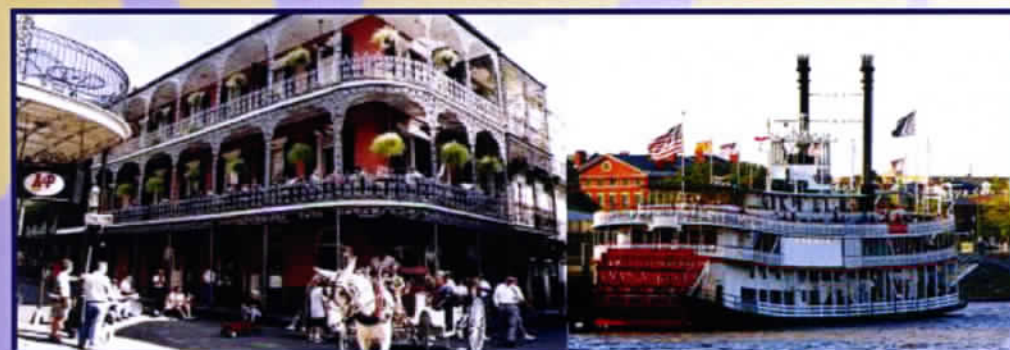
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*New Orleans*



## **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
- 14:10-14:30 *A Genomic Systems Approach to Inform Mechanistic and Translational Research on the Impact of Fatty Acids on Health and Disease of the Retina*  
**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 Hibbeln**, 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 10<sup>th</sup> 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

11:20-11:55

**Special Lecture -** *DHA Homeostasis and Cognitive Decline: Impact  
of Aging and ApoE4*  
**Stephen Cunnane**, Sherbrooke, Canada

12:00

Closing of the Meeting

12:30

**BUS DEPARTS**

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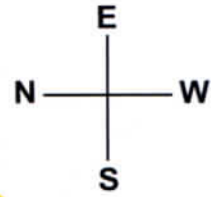




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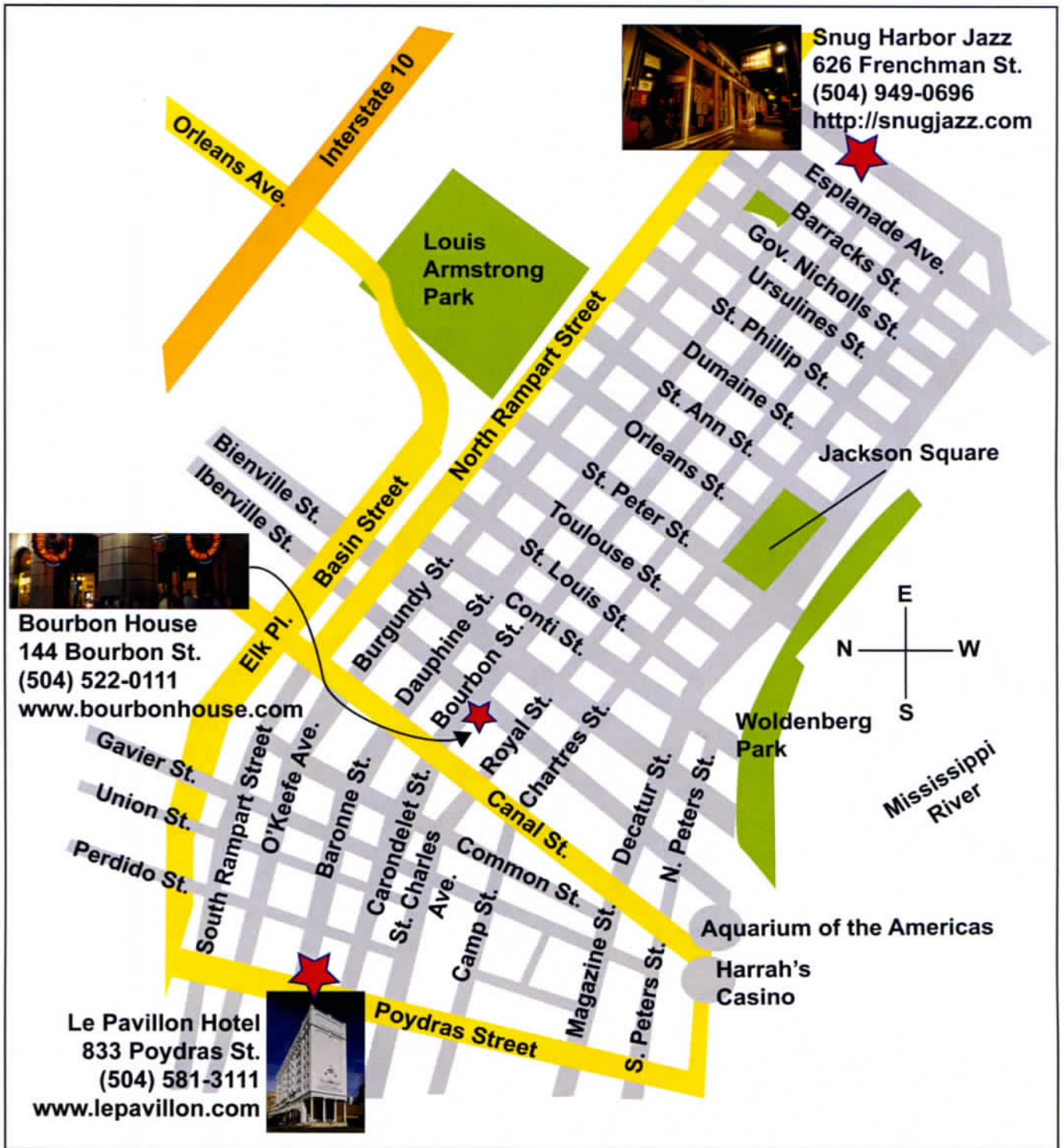


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