

FATTY ACIDS IN CELL SIGNALING (FACS)

The 14th Fatty Acids and Cell Signaling
FACS Conference:
Fatty Acid Metabolism and Oxidation

September 29-October 1, 2019
Omni Southpark Hotel, 4140 Governors Row
Austin, TX 78744



Organizers

Tom Brenna, University of Texas at Austin
Ameer Taha, University of California at Davis

We gratefully acknowledge generous sponsorship of

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MEETING AGENDA
All Omni Events are in the OAKS Room, First Floor
Enter from front lobby

DAY 1: Sunday, Sept 29
Arrival, Evening Program, Oaks Room

4:00-4:15 Welcome, Tom Brenna and Ameer Taha, University of Texas at Austin and University of California, Davis

Session 1: Highly Unsaturated Fatty Acids. Neural Function & Genetics

4:15-5:10 **Keynote.** Nicolas Bazan, Louisiana State University Medical Center & Center of Excellence for Neuroscience, New Orleans, LA

Elovanoids

5:10-5:45 Michael Crawford, Imperial College and Chelsea and Westminster Hospital, London, UK

The last double bond

5:45-6:00 Break

6:00-6:35 Robert E. Anderson, University of Oklahoma Medical Center and Dean McGee Eye Institute, Oklahoma City, USA

Role of very long chain fatty acids (≥ 28 -carbons) in retina, brain and testes

6:35-7:10 Martin-Paul Agbaga, University of Oklahoma Medical Center and Dean McGee Eye Institute, Oklahoma City, USA

ELOVL4 in Stargardt's disease

7:10-7:35 Tom Brenna, University of Texas at Austin, USA

FADS and ELOVLx biochemistry, 2019

7:35-8:00 Kumar Kothapalli, University of Texas at Austin, USA

Human genetics and PUFA status

8:00-on Reception and Buffet Dinner

DAY 2: Monday, Sept 30

Full Program, Oaks Room

7:30-8:30am Breakfast

Session 2: Ketones

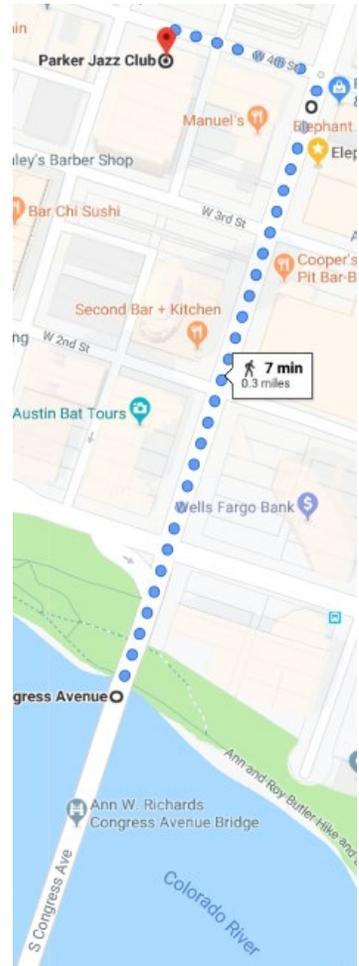
- 8:30-9:10 Stephen Cunnane, University of Sherbrooke, Canada
Ketones and brain energy rescue during aging: probing for mechanisms
- 9:10-9:50 Peter Crawford, Center for Metabolic Origins of Disease, Sanford Burnham Prebys Medical Discovery Institute, University of Minnesota
Ketone metabolism in genetically manipulated mouse models
- 9:50-10:30 John Newman, Buck Institute for Research in Aging, Novato, CA, USA & UCSF
Ketone bodies as endogenous histone deacetylase inhibitors
- 10:30-10:45 Coffee Break
- 10:45-11:20 Kevin Lin, LSU Health Sciences Center-Shreveport
Neuronal Fatty Acid Methylation: New Concepts in Brain Signaling
- 11:20-11:55 Hee-Yong Kim, NIH-NIAAA
Neuroprotective function of a DHA-metabolite synaptamide
- 11:55-12:30 Jessica Ellis, Dept of Physiology, Brody School of Medicine, East Carolina University, Greenville, North Carolina
Acyl-CoA synthetase 6 is a regulator of acyl-chain phospholipid composition
- 12:30-1:15 P.M. Lunch

Session 3: Advances in fatty acid mechanisms

- 1:15-1:50 Mikhail Shchepinov, Retrotope, Inc
bis-Allylic deuterated PUFA ameliorate oxidation-related disease symptoms
- 1:50-2:25 Miki Igarashi, Tokyo University of Agriculture and Technology
Effects of dietary oleic acid on jejunal OEA response and feeding behavior
- 2:25-3:00 Jan Glatz, Maastricht University, The Netherlands
Regulation of cellular fatty acid uptake and utilization: A coordinated action of CD36 (SR-B2) and vacuolar H⁺-ATPase
- 3:00-3:20 Coffee Break

Session 4: Oxylipins

- 3:20-4:05 Michel Lagarde, Université de Lyon, Inra/Inserm (CarMeN Lab), IMBL, INSA-Lyon, Villeurbanne, France
Double lipoygenation of polyunsaturated fatty acids of nutritional interest
- 4:05-4:40 Harold Aukema, University of Manitoba
Targeting oxylipins in polycystic kidney disease
- 4:40-5:15 Ameer Taha, University of California, Davis
Linoleic acid derived oxylipins in neural tissue
- 5:15-7:00 Break, snacks, and travel to the Governor Ann W. Richards Bridge Or Directly to the Parker Jazz Club, 117 W 4th St #107B, Austin, TX 78701
- 7:00-7:30 Bats. Sunset at 7:18pm
- 7:30-7:40 Walk to Parker Jazz Club,
West 4th Street, Austin Texas
- From the Ann Richards Bridge, walk north toward the Texas State Capital.
Left onto 4th Street,
Enter below Capital Grille, down to basement
- 7:40-8:20 Buffet Dinner
- 8:20-9:50 Jazz, special guests



DAY 3: Tuesday, October 1
Morning-Lunch Program, Oaks Room

8:00-9:00 A.M. Breakfast

Session 5: Clinical and translational PUFA

- 9:00-9:35 Robert Gibson, University of Adelaide, South Australia
Dried blood spot technology for the detection of diet induced changes in esterified and free fatty acids and their oxylipin derivatives in humans
- 9:35-10:10 Maria Makrides, South Australia Health and Medical Research Institute
Using a large-scale trial to understand a precision medicine approach to minimizing the risk of early preterm birth
- 10:10-10:45 Susan Carlson, University of Kansas Medical Center, Kansas City, USA
Our Efforts to Shine Light on DHA and Developmental Programming
- 10:45-11:00 Coffee
- 11:00-11:35 Joseph Hibbeln, NIH-NIAAA
Seafood intake in pregnancy or childhood supports neurodevelopment
- 11:35-12:10 Adina Michael-Titus, University of London
Omega-3 fatty acids in neurotrauma: Where are we on the road to clinical translation?
- 12:10-12:45 Richard Bazinet, University of Toronto
Mechanistic studies of brain PUFA metabolism
- 12:45 Lunch and farewell

LIST OF SPEAKERS

Participant	Affiliation	Email
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