

## 14th International Congress | 10-14 May

The International Society for the Study of Fatty Acids & Lipids (ISSFAL) In collaboration with American Oil Chemists' Society (AOCS)

#### **PROGRAM** (Subject to Change)

**The times below are USA & Canada Eastern Time zone.** For reference, in May 2021 this time zone is -4 GMT. New York City -4 GMT | London +1 GMT | Paris +2 GMT | Dubai +4 GMT | Beijing + 8 GMT | Adelaide +9:30 GMT

#### Monday, 10 May

**08:00 - 08:45 (USA Eastern)** 14:00 - 14:45 Paris 21:30 - 22:15 Adelaide **2021 Alexander Leaf Award** Susan E. Carlson, PhD

University of Kansas Medical Center | United States of America

"Nutrition and DHA: Themes in My Life and Career "

<b>08:45– 10:05 (USA Easter</b> 14:45 - 16:05 Paris 22:15 - 23:20 Adelaide	Chair: Maria M	al & Infant akrides, SAHMRI, <i>ISSF</i> , Qin, BASF   Singapore	<i>AL President</i>   Australia	
08:50 / 14:50 / 22:20	09:05 / 15:05 / 22:35	09:20 / 15:20 / 22:50	09:35 / 15:35 / 23:05	09:50 / 15:50 / 23:20
Prenatal Omega-3 supple- mentation for the preven- tion of preterm birth - a double edged sword?	Long-chain polyunsaturated fatty acids and lipid peroxi- dation products in donor human milk in the U.K.: Results from the LIMIT two- centre cross sectional study		Maternal Red Blood Cell Long-chain Fatty Acid Sta- tus Is Associated with a Higher Risk of Premature Birth in Urban South Africa: The Nuped Study	Diet-induced fat accumula- tion during adulthood is not affected by early-life expo- sure to infant formula with added MFGM as a source of phospholipids
Karen Best SAHMRI, Univ. of Adelaide <i>Australia</i>	Simon Dyall University of Roehampton United Kingdom	Linda Siziba University Medicine - Leipzig <i>Germany</i>	Elizabeth Symington UNISA South Africa	Lidewij Schipper Danone Nutricia Research <i>Netherlands</i>
All topical sessions will have	10 Minutes of Oral Presentation	and 5 Minutes Q&A. There will be	e an additional 20 Minutes of Pan	el Q&A after the last presenter.
19:00 - 19:45 Paris         02:30 - 03:15 Adelaide (Tuesday)         Learning from the Young to Treat the Old         Prof. Martin-Paul Agbaga         University of Oklahoma   United States of America         13:45 - 15:05 (USA Eastern)         19:45 - 21:05 Paris         03:15 - 04:20 Adelaide (Tuesday)				
13:50 / 19:50 / 03:20	14:05 / 20:05 / 03:35	14:20 / 20:20 / 03:50	14:35 / 20:35 / 04:05	14:50 / 20:50 / 04:20
Pro-resolving lipid mediator response may be modulated by recreational running	New dose strategy for omega-3 fatty acids using body surface area and a novel omega-3 index, the EDD-index.	4-F4-neuroprostane and its potent biological action in cardiovascular diseases.	Resolvin E1 has therapeutic potential for improving glucose homeostasis in a host- genome dependent manner	Oxidized lipids mediators within surgical incisions in humans – a clinical study.
Linda Malan North-West University South Africa	Linda Ljungblad Karolinksa Institute <i>Sweden</i>	Jean-Marie Galano CNRS <i>France</i>	Saame 'Raz' Shaikh Univ. of North Carolina <i>USA</i>	Anthony Domenichiello Nat'l. Institute on Aging <i>USA</i>
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International Society for the Study of Fatty Acids and Lipids

For more information: www.issfalcongress.com



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Tuesday, 11 May					
<b>06:00 - 06:45 (USA Eastern)</b> 12:00 - 12:45 Paris 19:30 - 20:15 Adelaide	SFEL: La Médaille Chevreul Prof. Robert Gibson SAHMRI   Australia				
		entures with fatty acids personalised clinical n			
06:45- 08:20 (USA Eastern)         12:45 - 14:20 Paris         20:15 - 21:50 Adelaide    SFEL Sessions Chairs: Phillipe Guesnet & Claire Bourlieu-Lacanal					
06:50 / 12:50 / 20:20	07:10 / 13:10 / 20:40	07:30 / 13:30 / 21:00	This session supported in part by:		
An overview of milk polar lipids physico-chemical attributes and nutritional interest	Milk sphingolipids: towards joint effects on lipid metabolism, intes- tinal health and gut microbiota	Impact of dairy components addi- tion on metabolic and microbiota programming: where do we stand?			
Claire Bourlieu-Lacanal INRAE <i>France</i>	Marie-Caroline Michalski INRAE <i>France</i>	Marion Lemaire INRAE France	Des Hommes pour mieux nourrir les Hommes		
10:00 - 10:45 (USA Eastern)16:00 - 16:45 Paris23:30 - 00:15 AdelaideUncovering Fatty Acid and CVD Relationships using POCS: Prospective Observational Cohort Studies Dr. William Harris, PhD, FASN Fatty Acid Research Institute (FARI)   USA					
10:45-12:05 (USA Eastern)         16:45 - 18:05 Paris         00:15 - 01:35 Adelaide (Wed.)    Carcliovascular Chair: Robert Block, Univ. of Rochester   USA					
11:05 / 17:05 / 00:35	11:20 / 17:20 / 00:50	11:35 / 17:35 / 01:05	11:50 / 17:50 / 01:20		
Omega-3 Fatty Acid Levels and Left Ventricular Diastolic Function in Patients with Heart Failure with Preserved Ejection Fraction: a Substudy from the Aldo DHE Bandomized	Role of Eicosapentanaenoic acid (EPA) in Heart failure Pre- diction: The Multi-Ethnic Study of Atherosclerosis				

Clemens von Schacky, M.D. Omegametrix *Germany* 

Aldo-DHF Randomized Controlled Trial

> Venugopal Mudgundi Univ. of Rochester USA

Fraser Russell Univ. of the Sunshine Coast Australia

Robert Block Univ. of Rochester USA

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Wednesday, 12 May					
<b>08:00 - 08:45 (USA Easter</b> 14:00 - 14:45 Paris 21:30 - 22:15 Adelaide	Potenti Prof. Sju	Long Chain n-3 Fatty Acids in Pregnancy: Potential for Prevention of Pre-Term Birth Prof. Sjurdur Olsen Statens Serum Institut   Denmark			
08:45 - 10:05 (USA Eastern)14:45 - 16:05 Paris22:15 - 23:35 AdelaideChair: Jeannine Baumgartner, ETH   Switzerland Co-Chair: Anna Filip, Nencki Institute of Experimental Biology   Poland					
08:50 / 14:50 / 22:20	09:05 / 15:05 / 22:35	09:20 / 15:20 / 22:50	09:35 / 15:35 / 23:05	09:50 / 15:50 / 23:20	
Microencapsulated Tuna Oil Results in Higher Ab- sorption of DHA in Tod- dlers	Assessing the effect of omega-3 docosapentae- noic (DPA) on inflamma- tion, using the Caco-2 gut epithelium model	Conversion of dietary polyunsaturated fats between humans and rodents: A review of allometric scaling models	Krill oil reduced osteoar- thritic knee pain in adults with mild to moderate knee osteoarthritis: A 6- month multicentre, ran- domized double-blind, placebo-controlled trial	The role of stearoyl-CoA desaturase 1 in the regu- lation of vascular smooth muscle cells phenotype and arterial remodeling	
Samaneh Fard Nu-Mega Ingredients <i>Australia</i>	Luke Durkin Oxford-Brookes University <i>United Kingdom</i>	Jay Whelan Univ. of Tennessee <i>United States</i>	Welma Stonehouse CSIRO <i>Australia</i>	Anna Filip Nencki Inst. of Exptl. Biology <i>Poland</i>	
Australia Onited Kingdom Onited States Australia Poland All topical sessions will have 10 Minutes of Oral Presentation and 5 Minutes Q&A. There will be an additional 20 Minutes of Panel Q&A after the last presenter.					

**13:00 - 13:45 (USA Eastern)** 19:00 - 19:45 Paris 02:30 - 03:15 Adelaide (Thursday) **2021 Early Career Award Prof. Ameer Taha** University of California, Davis | USA

"Metabolism, turnover and the role of oxidized linoleic acid metabolites in brain"

13:45- 15:05 (USA Eastern)
19:45 - 21:05 Paris
03:15 - 04:20 Adelaide (Thursday)

### **Obesity & Diabetes**

Chair: Ken Stark, Univ. of Waterloo | Canada

13:50 / 19:50 / 03:20	14:05 / 20:05 / 03:35	14:20 / 20:20 / 03:50	14:35 / 20:35 / 04:05
Baseline omega-3 status is associated with nerve regenera- tion following 1-year of omega-3 nutrition therapy in patients with diabetic neuropathy	Plasma phospholipid fatty acid patterns are associated with adiposity and the metabolic syndrome in black South Afri- cans: a cross-sectional study	Docosahexaenoic acid plus hy- droxytyrosol supplementation pre- vents metabolic disturbance in white adipose tissue in mice fed a high-fat diet through PPAR-γ and Nrf2 up-regulation and SREBP-1c and NF-kB down-regulation	Erythrocyte n-6 polyunsaturated fatty acids, gut microbiota and incident type 2 diabetes: a pro- spective cohort study
Evan Lewis Univ. of Toronto <i>Canada</i>	Alice Ojwang Technical Univ. of Kenya <i>Kenya</i>	Rodrigo Valenzuela Univ. of Toronto <i>Canada</i>	Zelei Miao Westlake University China

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**17:00 - 19:35 (USA Eastern)** 23:00 - 01:35 Paris 06:30 - 09:05 Adelaide (Thursday)

## **AOCS/ISSFAL Joint Session on Nutrition**

**Chair:** RJ Scott Lacombe, Univ. of Texas | USA **Co-chair:** Martha Belury, The Ohio State University | USA

## "Clinical and pre-clinical studies of polyunsaturated fatty acids"

17:10 / 23:00 / 06:40	17:35 / 23:35 / 07:05	18:00 / 00:00 / 07:30	18:25 / 00:35 / 07:	55 18:50 / 00:50 / 08	8:20 19:15 / 01:15 / 08:45
High-oleic Ready-to- use Therapeutic Food with or Without Do- cosahexaenoic Acid Supports Normal Growth and Recovery in Malnourished Mala- wian Children: A Ran- domized Controlled Trial	Associations of n-3 Fatty Acid Status Dur- ing Early Pregnancy with Perinatal Depres- sion at 12 Months Postpartum in Urban South Africa: The Nuped Study	Modeling the Impact of High Oleic Acid Oil Varieties on the Levels of Essential Fatty Acid Intake in Children	Modulation in Dieta Linoleic Acid Intak Results in Differen Transcriptomic Re sponse to Ethanol Binge	e of Dihomo-γ-linol tial Acid (DGLA) and - Dgla-rich Green I	enic Acid Is Necessary for the the Increase in Eicosa- Micro- pentaenoic Acid Fol- lowing Docosahex-
RJ Scott Lacombe Univ. of Texas USA	Ester Osuna ETH <i>Switzerland</i>	Marth Belury The Ohio State Univ. <i>USA</i>	Chuck Chen NIAAA <i>USA</i>	Ekaterina Novichko Ben Gurion Univers <i>Israel</i>	
		Thursday	/, 13 May		
<b>10:00 - 10:45 (USA Eas</b> 16:00 - 16:45 Paris 23:30 - 00:15 Adelaide	Intro Aldo	ducing EF ducing GO Bernasconi, N ator: Ellen Schutt	ED's Cli /P of Data	nical Stud Science, G	ies Database OED   USA
10:45 - 12:05 (USA Eastern)16:45 - 18:05 Paris00:15 - 02:35 Adelaide (Friday)Lipid MetabolismChair: Richard Bazinet, Univ. of Toronto, ISSFAL Imm'd. Past President   CanadaCo-chair: Zhen Wang, Wilmar International   China					
10:50 / 16:50 / 00:20	11:05 / 17:05 / 00:3	35 11:20 / 17:20 /	00:50 11:3	5 / 17:35 / 01:05	11:50 / 17:50 / 01:20
Acute injection of DHA triglyceride emulsions after hypoxic-ischemic brain injury in mice increases EPA and EP/ derived pro-resolving mediators in brain and blood	Plasma unesterifie eicosapentaenoic converted to docosahexaenoic A- (DHA) in the liver supplies the brain DHA in the preser absence of dietary	acid is required for b docosahexae acid retention and and neuroprotecti with aging nee or	rain the noic acid Hot Alte	DS2 Function Loss at Major Cancer tspot 11q13 Locus ers Fatty Acid tabolism	Accretion and Pharmacokinetics of Di- Deuterated Linoleic Acid in Human Patients with a Neurodegenerative Disease
Denny Kollareth Columbia University USA	Adam Metherel Univ. of Toronto <i>Canada</i>	Jessica Ellis East Carolina Ur <i>USA</i>		ar Kothapalli of Texas	Genevieve James Univ. of Texas <i>USA</i>
All topical sessions will h					



International Society for the Study of Fatty Acids and Lipids

### ALL POSTER PRESENTATIONS WILL BE AVAILABLE ONLINE FROM 15 APRIL THROUGH 14 MAY



## 14th International Congress | 10-14 May

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Friday, 14 May

**06:00 - 06:45 (USA Eastern)** 12:00 - 12:45 Paris 19:30 - 20:15 Adelaide

### N-3 Polyunsaturated Fats & The Resolution of Neuroinflammation Prof. Sophie Laye

National Institute of Agricultural Research (INRA) |France

#### **06:45– 08:05 (USA Eastern)** 12:45 - 14:05 Paris

20:15 - 21:35 Adelaide

Neuroscience

**Chairs:** Adina Michael-Titus, Univ. of London | United Kingdom **Co-chair:** Julia Kelliher, Penn State University | USA

06:50 / 12:50 / 20:20	07:05 / 13:05 / 22:35	07:20 / 13:20 / 20:50	07:35 / 13:35 / 21:05	07:50 / 13:50 / 21:20
Effect of omega-3 LCPUFA supplementation on cognition in children and adolescents: an expanded systematic literature review with focus on DHA/EPA dose and omega-3 index.	Supplementation with oil rich in eicosapentaenoic acid, but not in docosahex- aenoic acid, improves glob- al cognitive function in healthy, young adults: A randomised controlled trial	A combined n-3 fatty acid and flavan-3-ol supplement does not improve cognition or brain structure in older age: The Cognitive Ageing, Nutrition and Neurogenesis (CANN) trial	A new perspective on roles of polyunsaturated fatty acids and carotenoids in exudative age-related macular degeneration	Ketones from MCT im- prove processing speed in MCI as a function of improved white matter energetics.
Inge van der Wurff Open University <i>Netherlands</i>	Philippa Jackson Northumbria University <i>United Kingdom</i>	Anne Marie Minihane Univ. of East Anglia <i>United Kingdom</i>	Jetty Chung-Yung Lee Univ. of Hong Kong <i>Hong Kong SAR</i>	Stephen Cunnane University of Sherbrooke <i>Canada</i>

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**11:00– 11:45 (USA Eastern)** 17:00 - 17:45 Paris 00:30 - 01:15 Adelaide <sub>(Saturday)</sub>

#### Application of Lipidomics to the Identification of Bioactive Lipid Mediators Prof. Valerie O'Donnell Cardiff University | Wales

**11:45 - 13:05 (USA Eastern)** 17:45 - 19:05 Paris 01:15 - 02:35 Adelaide <sub>(Saturday)</sub>

## Lipidomics & Novel Technologies

**Chairs:** Anna Nicolaou, Univ. of Manchester | United Kingdom **Co-Chair:** Klaudia Steckel, Univ. of Waterloo | Canada

11:50 / 17:50 / 01:20	12:05 / 18:05 / 01:35	12:20 / 18:20 / 01:50	12:35 / 18:35 / 02:05	12:50 / 18:50 / 02:20
Challenges in the development of dried spot methods for separating and measuring the level of free fatty acids in breast milk	Solvent-mediated (SM) covalent adduct chemical ionization (CACI-)MS/MS for identification of fatty acid methyl esters with unusual double bond positions on a Shimadzu triple quadrupole mass spectrometer	Determining the absorption and tissue incorporation kinetics of linoleic acid-derived 13- hydroxyoctadecadienoic acid in rats	Lipid particles as interfacial reservoirs of antioxidants in Pickering emulsions	Carbon Isotope Ratio Analysis Reveals that Lipogenesis is the Major Contributor to Brain Pal- mitic Acid and is Aug- mented in Mice fed Low Palmitic Acid Diets from Birth
Chang Gao SAHMRI, Univ. of Adelaide <i>Australia</i>	Donghao Wang Cornell University <i>USA</i>	Zhichao Zhang Univ. of California, Davis <i>USA</i>	Claire Berton-Carabin Wageningen University Netherlands	Mackenzie Smith Univ. of Toronto <i>Canada</i>

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**13:00– 13:45 (USA Eastern)** 19:00 - 19:45 Paris 02:30 - 03:15 Adelaide (Saturday)

#### **Closing Session**

Prof. Richard Bazinet, ISSFAL Immediate Past President

**New Investigator Awards** (Sponsored by BASF) Svein-Olaf Hustvedt, BASF



ISSFAL 2022 - Nantes, France (10-13 July) Bernadette Delplanque, ISSFAL 2022 Congress Chair



International Society for the Study of Fatty Acids and Lipids

#### Special thanks to our generous Congress supporters.

#### **EDUCATIONAL GRANTS:**







