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

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

PROGRAM (Subject to Change)

Monday, 10 May

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”

Maternal & Infant       
Chair: Maria Makrides, SAHMRI, ISSFAL President | Australia 
Co-Chair: Yan Qin, BASF | Singapore

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

08:45–10:05 (USA Eastern)
14:45–16:05 Paris
22:15–23:20 Adelaide

Prenatal Omega-3 supplementation for the prevention of preterm birth - a double edged sword?
Karen Beat
SAHMRI, Univ. of Adelaide
Australia

Long-chain polyunsaturated fatty acids and lipid peroxidation products in donor human milk in the U.K.: Results from the LIMIT two-centre cross sectional study
Simon Dyall
University of Roehampton
United Kingdom

Human milk fatty acid composition and maternal lifestyle-related time trends: a comparison between the two Ulm Birth Cohort Studies.
Linda Sziba
University Medicine - Leipzig
Germany

Maternal Red Blood Cell Long-chain Fatty Acid Status Is Associated with a Higher Risk of Premature Birth in Urban South Africa: The Nuped Study
Elizabeth Symington
UNISA
South Africa

Diet-induced fat accumulation during adulthood is not affected by early-life exposure to infant formula with added MFGM as a source of phospholipids
Lidewij Schipper
Danone Nutricia Research
Netherlands

Pro-resolving lipid mediator response may be modulated by recreational running
Linda Maian
North-West University
South Africa

New dose strategy for omega-3 fatty acids using body surface area and a novel omega-3 index, the EDD-index.
Linda Ljungblad
Karolinska Institute
Sweden

4-F4-neuroprostane and its potent biological action in cardiovascular diseases.
Jean-Marie Galano
CNRS
France

Resolvin E1 has therapeutic potential for improving glucose homeostasis in a host-genome dependent manner
Saame ‘Raz’ Shaikh
Univ. of North Carolina
USA

Oxidized lipids mediators within surgical incisions in humans – a clinical study.
Anthony Domeniciello
Nat’. Institute on Aging
USA

For more information: www.issfalcongress.com
Tuesday, 11 May

**SFEL: La Médaille Chevreul**

Prof. Robert Gibson
SAHMRI | Australia

“Old and new adventures with fatty acids and their oxylipins: The road towards personalised clinical nutrition.”

**SFEL Sessions**

**Chairs:** Phillipe Guesnet & Claire Bourlieu-Lacanal

- **06:50 / 12:50 / 20:20**
  - An overview of milk polar lipids
  - Milk sphingolipids: towards joint effects on lipid metabolism, intestinal health and gut microbiota
  - Impact of dairy components addition on metabolic and microbiota programming: where do we stand?

  - Claire Bourlieu-Lacanal
    - INRAE
    - France
  - Marie-Caroline Michalski
    - INRAE
    - France
  - Marion Lemaire
    - INRAE
    - France

- **11:05 / 17:05 / 00:35**
  - Uncovering Fatty Acid and CVD Relationships using POCS: Prospective Observational Cohort Studies
  - Dr. William Harris, PhD, FASN
    - Fatty Acid Research Institute (FARI) | USA

- **10:00 - 10:45 (USA Eastern)**
  - 16:00 - 16:45 Paris
  - 23:30 - 00:15 Adelaide (Wed.)

**Cardiovascular**

**Chair:** Robert Block, Univ. of Rochester | USA

- **11:05 / 17:05 / 00:35**
  - Omega-3 Fatty Acid Levels and Left Ventricular Diastolic Function in Patients with Heart Failure with Preserved Ejection Fraction: a Substudy from the Aldo-DHF Randomized Controlled Trial
  - Role of Eicosapentaenoic acid (EPA) in Heart failure Prediction: The Multi-Ethnic Study of Atherosclerosis
  - Omega-3 fatty acids reduce oxidative stress in cultured, lipopolysaccharide-stimulated macrophages from patients with abdominal aortic aneurysm
  - Omega-3 Fatty Acids and Aspirin Interact in Primary Cardiovascular Disease Prevention

  - Clemens von Schacky, M.D.
    - Omegametrix
    - Germany
  - Venugopal Mudgundi
    - Univ. of Rochester
    - USA
  - Fraser Russell
    - Univ. of the Sunshine Coast
    - Australia
  - Robert Block
    - Univ. of Rochester
    - USA

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.
Wednesday, 12 May

**Long Chain n-3 Fatty Acids in Pregnancy: Potential for Prevention of Pre-Term Birth**

Prof. Sjurdur Olsen  
Statens Serum Institut | Denmark

**Nutrition**

Chair: Jeannine Baumgartner, ETH | Switzerland  
Co-Chair: Anna Filip, Nencki Institute of Experimental Biology | Poland

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:50 / 14:50 / 22:20</td>
<td>Microencapsulated Tuna Oil Results in Higher Absorption of DHA in Toddlers</td>
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<td>Assessing the effect of omega-3 docosapentaenoic (DPA) on inflammation, using the Caco-2 gut epithelium model</td>
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<td>Conversion of dietary polyunsaturated fats between humans and rodents: A review of allometric scaling models</td>
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<td>Krill oil reduced osteoarthritic knee pain in adults with mild to moderate knee osteoarthritides: A 6-month multicentre, randomized double-blind, placebo-controlled trial</td>
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<td>The role of stearoyl-CoA desaturase 1 in the regulation of vascular smooth muscle cells phenotype and arterial remodeling</td>
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Samaneh Fard  
Nu-Mega Ingredients  
Australia

Luke Durkin  
Oxford-Brookes University  
United Kingdom

Jay Whelan  
Univ. of Tennessee  
United States

Welma Stonehouse  
CSIRO  
Australia

Anna Filip  
Nencki Inst. of Expd. Biology  
Poland

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**2021 Early Career Award**

Prof. Ameer Taha  
University of California, Davis | USA

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

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>13:30 - 13:50 (USA Eastern)</td>
<td>Baseline omega-3 status is associated with nerve regeneration following 1-year of omega-3 nutrition therapy in patients with diabetic neuropathy</td>
</tr>
<tr>
<td>19:00 - 19:45 Paris</td>
<td>Plasma phospholipid fatty acid patterns are associated with adiposity and the metabolic syndrome in black South Africans: a cross-sectional study</td>
</tr>
<tr>
<td>02:30 - 03:15 Adelaide</td>
<td>Docosahexaenoic acid plus hydroxytyrosol supplementation prevents 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</td>
</tr>
<tr>
<td>13:45– 15:05 (USA Eastern)</td>
<td>Erythrocyte n-6 polyunsaturated fatty acids, gut microbiota and incident type 2 diabetes: a prospective cohort study</td>
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Evan Lewis  
Univ. of Toronto  
Canada

Alice Ojwang  
Technical Univ. of Kenya  
Kenya

Rodrigo Valenzuela  
Univ. of Toronto  
Canada

Zelei Miao  
Westlake University  
China

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.
### PROGRAM (Subject to Change)

**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)

**17:00 - 19:35 (USA Eastern)**

**Thursday, 13 May**

**10:00 - 10:45 (USA Eastern)**

Cataloging EPA and DHA Science: Introducing GOED’s Clinical Studies Database

Aldo Bernasconi, VP of Data Science, GOED | USA

Moderator: Ellen Schutt, Executive Director, GOED | USA

#### Thursday, 13 May

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter &amp; Institution</th>
</tr>
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<tbody>
<tr>
<td>10:00 / 16:00 / 07:00</td>
<td>High-oleic Ready-to-use Therapeutic Food with or Without Docosahexaenoic Acid Supports Normal Growth and Recovery in Malnourished Malawian Children: A Randomized Controlled Trial</td>
<td>RJ Scott Lacombe, Univ. of Texas, USA</td>
</tr>
<tr>
<td>10:15 / 16:15 / 08:00</td>
<td>Associations of n-3 Fatty Acid Status During Early Pregnancy with Perinatal Depression 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 Dietary Linoleic Acid Intake Results in Differential Transcriptomic Response to Ethanol Binge</td>
<td>Marth Belury, The Ohio State Univ, USA, Chuck Chen, NIAAA, USA, Ekaterina Novichkova, Ben Gurion University, Israel</td>
</tr>
<tr>
<td>10:30 / 16:30 / 08:30</td>
<td>Elucidating the Effects of Diohomo-γ-linolenic Acid (DGLA) and the Dgla-rich Green Microalgae in a Zebrafish Model of Gut Inflammation Dietary Alpha-linolenic Acid Is Necessary for the Increase in Eicosapentaenoic Acid Following Docosahexaenoic Acid Intake</td>
<td>Adam Metherel, Univ. of Toronto, Canada</td>
</tr>
</tbody>
</table>

**19:10 - 21:30 (USA Eastern)**

High-oleic Ready-to-use Therapeutic Food with or Without Docosahexaenoic Acid Supports Normal Growth and Recovery in Malnourished Malawian Children: A Randomized Controlled Trial

RJ Scott Lacombe, Univ. of Texas, USA

**15:00 - 17:30 (USA Eastern)**

Lipid Metabolism

Chair: Richard Bazinet, Univ. of Toronto, ISSFAL Imm’d. Past President | Canada

Co-chair: Zhen Wang, Wilmar International | China

<table>
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<tr>
<td>11:00 / 17:00 / 00:30</td>
<td>Acute injection of DHA triglyceride emulsions after hypoxic-ischemic brain injury in mice increases EPA and EPA-derived pro-resolving mediators in brain and blood</td>
<td>Denny Kollareth, Columbia University, USA</td>
</tr>
<tr>
<td>11:15 / 17:15 / 01:05</td>
<td>Plasma unesterified eicosapentaenoic acid is converted to docosahexaenoic acid (DHA) in the liver and supplies the brain with DHA in the presence or absence of dietary DHA Acyl-CoA synthetase 6 is required for brain docosahexaenoic acid retention and neuroprotection during aging FADS2 Function Loss at the Major Cancer Hotspot 11q13 Locus Alters Fatty Acid Metabolism</td>
<td>Adam Metherel, Univ. of Toronto, Canada, Jessica Ellis, East Carolina University, USA, Kumar Kohlapalli, Univ. of Texas, USA, Genevieve James, Univ. of Texas, USA</td>
</tr>
<tr>
<td>11:30 / 17:30 / 01:30</td>
<td>Accretion and Pharmacokinetcis of Di-Deuterated Linoleic Acid in Human Patients with a Neurodegenerative Disease</td>
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</table>
N-3 Polyunsaturated Fats & The Resolution of Neuroinflammation
Prof. Sophie Laye
National Institute of Agricultural Research (INRA) | France

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.
Inge van der Wurff
Open University
Netherlands

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
Anne Marie Minihane
Univ. of East Anglia
United Kingdom

A new perspective on roles of polyunsaturated fatty acids and carotenoids in exudative age-related macular degeneration
Jetty Chung-Yung Lee
Univ. of Hong Kong
Hong Kong SAR

Challenges in the development of dried spot methods for separating and measuring the level of free fatty acids in breast milk
Chang Gao
SAHMRI, Univ. of Adelaide
Australia

Solvent-mediated (SM) covalent adduct chemical ionization (CACHI)-MS/MS for identification of fatty acid methyl esters with unusual double bond positions on a Shimadzu triple quadrupole mass spectrometer
Donghao Wang
Cornell University
USA

Determining the absorption and tissue incorporation kinetics of linoleic acid-derived 13-hydroxyoctadecadienoic acid in rats
Zhichao Zhang
Univ. of California, Davis
USA

Lipid particles as interfacial reservoirs of antioxidants in Pickering emulsions
Claire Berton-Carabin
Wageningen University
Netherlands

Chairs:
Adina Michael-Titus, Univ. of London | United Kingdom
Klaudia Steckel, Univ. of Waterloo | Canada

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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

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