



WORLD CONGRESS OF OMEGA-3 SCIENCE & TECHNOLOGY (WCOST)

Organizers: International Society for Omega-3 Research (ISOR)
eChinaHealth
 (Partner with the International Journal of Molecular Sciences, IF 5.923)

It has been exactly 50 years since the discovery of the health effects of omega-3 fatty acids (Omega-3). Now, Omega-3 has become the most intensively studied nutrient for its diverse health benefits. Nearly 60,000 scientific research papers have been published so far covering all aspects of Omega-3, from biochemistry to genetic engineering technology, from lifestyle food to drug, from prenatal and postnatal care to anti-aging effects, showing its extraordinary importance for human health.

This congress will highlight the major discoveries and technological breakthroughs in the past 50 years of Omega-3 research, showcase the latest research findings, especially those from human studies, discuss the frontiers, opportunities and challenges of the field, and lay out the direction and prospects of Omega-3's research and development for the years to come.

Free Registration

The WCOST will bring together a diverse array of people — including the world's top and most influential scientists, entrepreneurs, policy-makers and responsible persons of relevant industries and institutions in the field of Omega-3. This congress will present an ecological chain of Omega-3 in an all-embracing manner and its role and impact in building a large integrated system of science and technology, public health, industry and economy.

The WCOST will be the most comprehensive and influential meeting of its kind, and a landmark event in the history of the Omega-3 field.

This event is where you get the most exciting, unusual and interesting presentations about Omega-3, and that can spark collaborations that may have otherwise not have happened. **Surely, the WCOST congress is a must-attend event for all the people who are interested in omega-3.**

Congress Topics (Subject to changes by the organizer)

- The Past, Present and Future of Omega-3
- Frontiers and Opportunities of Omega-3 Research and Industry
- Breakthroughs and Innovations in Omega-3 Research
- Lipidomics and Metabolomics of Omega-3
- Nutrigenetics and Nutrigenomics of Omega-3
- Omega-3 and Gut-Microbiota & Inflammation
- Omega-3 and the Management of COVID-19
- Omega-3 and Brain Health (Recent Human Studies)
- Omega-3 and Anti-Aging & Skin Care
- Omega-3 and Cancer: Role in Treatment and Rehabilitation of Cancer Patients
- Omega-3 and Metabolic Diseases (CVD, Obesity, etc.)
- Recent Human Studies on Omega-6/Omega-3 Ratio
- New Resources and Technologies for the Production of Omega-3 PUFA
- Omega-3 New Products and Emerging Industries
 - Food and Beverages;
 - Supplements;
 - Drugs;
 - Cosmetics;
 - Pet Food;
- Challenges and Guidelines for Omega-3 Research

Partner

Sponsors

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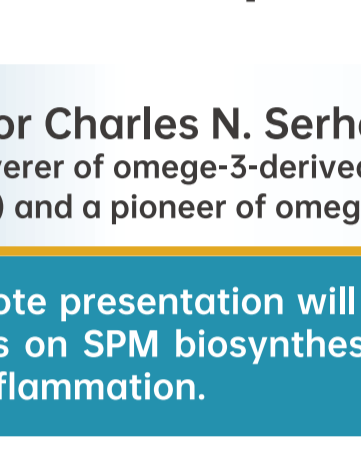
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Scientific Program

The scientific program of WCOST2021 features keynote speeches and world renowned experts presentations covering the major breakthroughs and innovations of the field, recent exciting discoveries on basic research, latest clinical trials results, new technologies, and new products, etc. Interactive expert panel discussions will also be featured.

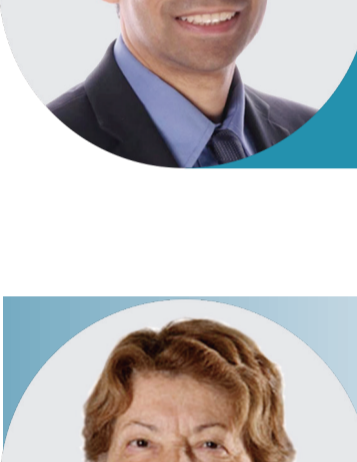
Congress Chairman



Jing X. Kang, M.D., Ph.D.

President, International Society for Omega-3 Research (ISOR)
 Director, Laboratory for Lipid Medicine and Technology, Massachusetts General Hospital/Harvard Medical School

Invited Speakers and Topics



Professor Charles N. Serhan (Harvard Medical School, USA)
 The discoverer of omega-3-derived SPM (Specialized Pro-resolving Mediators) and a pioneer of omega-3 lipidomics

His keynote presentation will give an overview of the recent advances on SPM biosynthesis and functions in the regulation of inflammation.



Professor William Harris (University of South Dakota, USA)
 The founder of Omega-3 Index and president of Fatty Acid Research Institute

He will give a keynote talk about the history and impact of Omega-3 Index.



Professor Deepak L. Bhatt (Harvard Medical School, USA)
 An internationally renowned physician-scientist and a principal investigator/ chair of several large clinical trials, including the famous omega-3 study REDUCE-IT.

His keynote talk will outline the REDUCE-IT trial and the role of EPA.



Artemis P. Simopoulos, M.D. (Center for Genetics, Nutrition and Health, USA)
 The founder and president of the Center for Genetics, Nutrition and Health. A founding member of the International Society for the Study of Fatty Acids and Lipids (ISSFAL); and the founder of the International Society of Nutrigenetics/ Nutrigenomics (ISNN).

She will give a keynote talk on genetic variation, essential fatty acids, inflammation, and the risk for COVID-19.



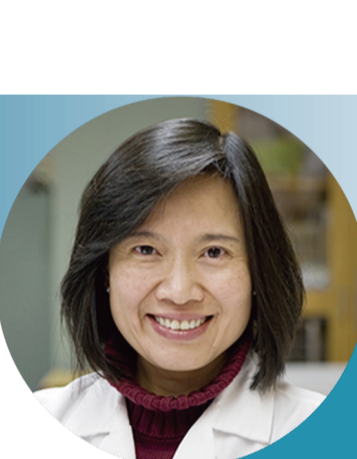
Professor Jing X. Kang (Harvard Medical School, USA)
 The inventor of Fat-1 technology (Conversion of omega-6 to omega-3 fatty acids in mammals) and the transgenic animal models for omega-3 research; President, International Society for Omega-3 Research.

He will give a keynote talk on the history and impact of the Fat-1 technology and transgenic mouse models.



Professor Catherine Stanton (University College Cork, Ireland)
 A world-renowned scientist and expert in gut microbiota and food science.

She will talk about the influence of omega-3 on the developing gut microbiota in early life.



Professor Catherine Field (University of Alberta, Canada)
 An internationally recognized expert in nutritional immunology; a Canada Research Chair in Human Nutrition and Metabolism and a fellow of the Canadian Academy of Health Sciences; The Past-President of the American Society for Nutrition.

She will talk about the role of omega-3 fatty acids in the development of the infant's immune system.



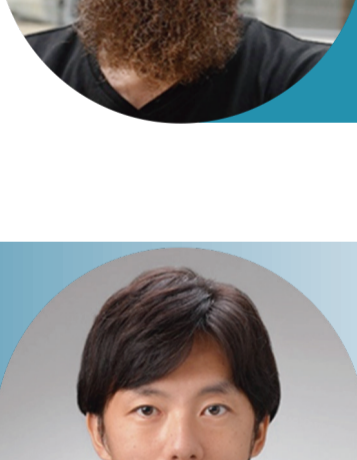
Professor Duo Li (Qingdao University, China)
 A distinguished professor and one of the leading scientists in the field of omega-3 intake and public health; An authority on dietary guidelines in China.

His talk will focus on the impact of omega-3 fatty acids on the risk of breast cancer.



Dr. Sophie Layé (Université de Bordeaux, France)
 A leading scientist in the field of omega-3 fatty acids and brain functions; The director of the NutriNeuro Institute (Bordeaux Univ), and the head of the International Research Network Food4BrainHealth (13 partners in France and Canada).

She will speak on the effect of omega-3 fatty acids on neuroinflammation and risk of brain disorders.



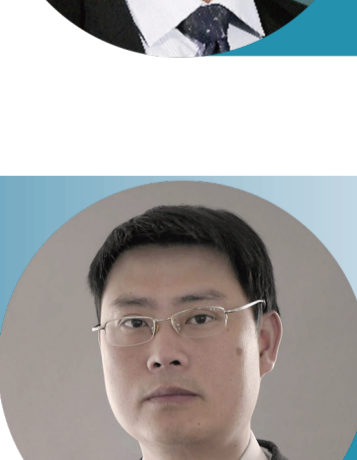
Professor Makoto Arita (Keio University, Japan)
 A pioneering researcher in omega-3 lipidomics and an expert in identifying novel omega-3 derived mediators.

He will give a talk on the role of omega-3 fatty acid metabolism in the control of inflammation and tissue homeostasis.



Professor David W.L. Ma (University of Guelph, Canada)
 A well-established professor with expertise in studying the role of fatty acids in health and disease; The director of the Guelph Family Health Study (GFHS); A Past-President of the Canadian Nutrition Society.

He will speak on the protective effect of omega-3 fatty acids against brain injury, especially concussion in athletes.



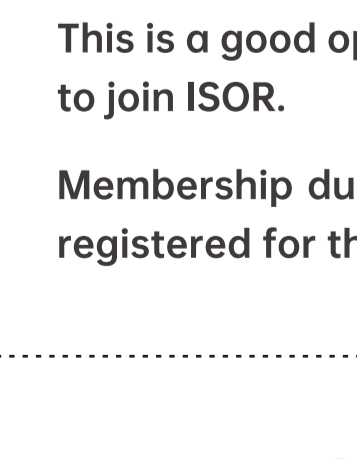
Professor Jesmond Dalli (Queen Mary University of London, UK)
 A leading scientist in the field of omega-3-derived mediators and an expert in lipid mediator profiling and functional validation.

He will talk about the relationship between the expression and activity of omega-3 SPM pathways, circulating phagocyte function, and disease severity in patients with COVID-19.



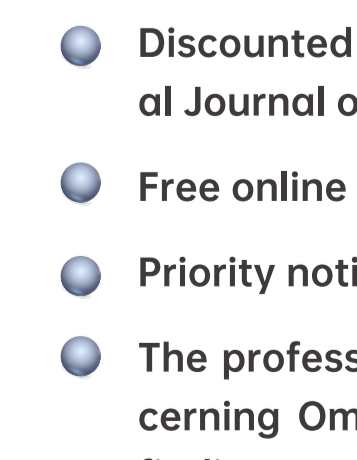
Professor Yu-Hua Tseng (Harvard Medical School, USA)
 A renowned scientist in the field of obesity and diabetes and an expert in studying energy metabolism in adipose tissue.

She will give a talk on her recent interesting findings showing an omega-3 fatty acid metabolite as a novel lipid signature of longevity.



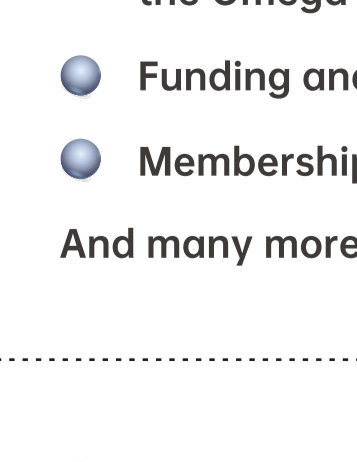
Professor Michael I. McBurney (Tufts University, USA)
 A senior scientist in the Fatty Acid Research Institute (USA) and an expert in human nutrition.

He will give a talk on the relationship between Omega-3 Index and all-cause mortality in the Framingham Offspring Cohort.



Professor Kuan-Pin Su (China Medical University, Taiwan)
 A pioneer in nutritional-psychiatry research and a top world-expert in the management of depression with omega-3 fatty acids.

His presentation will outline his recent clinical studies on the treatment of depression with omega-3 fatty acids.



Professor Karsten H. Weylandt (Brandenburg Medical School, Germany)
 A leading physician-scientist in the field of omega-3 and IBD and an expert in the study of lipid metabolism and inflammation.

He will present his recent studies on the identification of lipid biomarkers for the protective effect of omega-3 fatty acids against IBD



Dr. Pierre Trifilieff (Bordeaux University, France)
 One of the leading scientists in the field of dopamine and motivation.

He will present his recent study (published in Cell Metabolism) showing a causal link between n-3 fatty acid deficiency and motivation deficits.



Professor Toshihide Kurihara (Keio University, Japan)
 A physician-scientist in the field of ophthalmology with research interest in visual restoration and molecular mechanism of myopia development and progression.

He will present his recent interesting study showing a suppressive effect of omega-3 fatty acids on the progression of myopia.

Professor Xingguo Wang (Jiangnan University, China)
 A leading scientist in the field of Oil processing and nutritional safety and functional oils.

Omega-3 fatty acids and nutritional support in cancer treatment: Recent progress and future trends

Professor Changhu Xue (Ocean University of China, Qingdao Institute of Marine Bioresources For Nutrition & Health Innovation, China)
 A leading scientist in the field of efficient utilization of lipid resources, an expert in the development of marine health food.

Omega-3 Fatty Acids and Lipids Production from Ocean in China

Professor Qiu Cui (Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, China)
 A leading scientist in the production of omega-3 fatty acid by using biotechnology.

He will present on how to utilize plant cells to produce high quality omega-3 fatty acids in a large scale.

Dr. Huichang Zhong (Xiamen Huison Biotech Co.,Ltd)
 The Chief Engineer of Xiamen Huison Biotech Co.,Ltd; An expert in microbial fermentation and application of active substances.

He will give a talk on the development and application of virgin DHA dairy products

More speakers will be added.....

Free Registration

This is a good opportunity for those who are working in the field of Omega-3 to join ISOR.

Membership dues (\$150 for the first year) will be waived for all individuals registered for this congress.

BENEFITS OF ISOR MEMBERSHIP

We offer our members the following benefits:

- Substantially reduced registration rates for ISOR annual meetings and special conferences;
- Discounted publication charges for articles published in the International Journal of Molecular Sciences (IF 5.923)
- Free online access to the digital ISOR Newsletter;
- Priority notice of various meetings and special events of ISOR;
- The professional benefits of the ISOR's public education activities concerning Omega-3 research and press coverage of the latest research findings;
- The opportunity to participate in training workshops that foster knowledge in the Omega-3 field for investigators in training;
- Networking and informal scientific exchange with leading researchers in the Omega-3 field;
- Funding and award opportunities
- Membership certificates

And many more ongoing benefits.

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