

International Forum on Omega-3 and Global Health (IFOGH)

Translating Omega-3 science and technology
to practical solutions for global health problems

Time (Beijing Time):
Dec. 8-9, 2023

Venue:
Qingdao, China
and Live Zoom Webinar

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INTRODUCTION

Global health problems are now more complex and challenging than ever due to pandemics, wars, and climate change. Low- and middle-income countries face a disproportionately large burden of cancer, diabetes, and other noncommunicable diseases. According to WHO, nearly one-third of today's global disease burden is attributed to unhealthy diets. Given the complexity and magnitude of current global health problems, it is extremely important and urgent to develop safe, cost-effective, and sustainable interventions to address the root causes of widespread health problems and substantially improve the health status of the world's population.

Omega-3 fatty acids have become one of the most extensively studied nutrients for their diverse biological effects. Evidence from various studies such as molecular research, animal experiments, randomized clinical trials, and epidemiological observations shows that Omega-3 fatty acids are essential nutrients for maintaining health at all stages of human life cycle and play an important role in the prevention and treatment of many modern chronic diseases, including cardiovascular disease, cancer, obesity and diabetes, neurodegenerative disease, and maternal and child health problems.

Recent research has shown that the deficiency of Omega-3 fatty acids is a key risk factor for many global health problems, including both communicable and non-communicable diseases, whereas a large majority of the world's population have varying degrees of Omega-3 deficiency, especially in the low and middle-income countries. Therefore, increased dietary intake or supplementation of Omega-3 fatty acids may be a safe, cost-effective, and sustainable solution for many global health problems.

The goal of this conference is to provide a platform for scientists, medical professionals, entrepreneurs, and experts in global health from around the world to explore the opportunities and challenges of translating Omega-3 science and technology to practical solutions for global health problems and to foster a collaborative network. This forum will focus on the development of evidence-based Omega-3 interventions (products and technologies) and how to implement them to generate a real-world impact on global health.

Forum Chairman



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

Founder and President, Omega-3 and Global Health Institute (OGHI)

President, International Society for Omega-3 Research (ISOR)

AGENDA

Keynote Speech

Omega-3 as a Solution to Global Health Problems: Opportunities and Challenges



Prof. Jing X. Kang

Founder and President, Omega-3 and Global Health Institute (OGHI)
President, International Society for Omega-3 Research (ISOR)

Maternal and Child Health

DHA to Reduce Preterm Birth: The Evidence and Efforts to Improve Intake Internationally



Prof. Susan Carlson

Distinguished Professor at the University of Kansas. Medical Center, USA
Past President of the International Society for the Study of Fatty Acids and Lipids
Leading Scientist on Interventional Studies on Omega-3 Supplementation for Pregnant Women and Infants

The Role of Omega-3 Fatty Acids in Preventing Preterm Birth



Prof. Robert Gibson

Outstanding Professor of South Australian Health and Medical Research Institute, Adelaide, Australia
Pioneering Researcher in Studying Omega-3's Effects on Premature Birth and Infant Brain Development
Winner of Alexander Leaf Distinguished Scientist Award for Lifetime Achievement

Effects of Omega-3 Fatty Acid Supplementation on Reproductive Disorders: a Review of Clinical Studies



Prof. Qingzhi Liu

Founder of the Reproductive Immunology Comprehensive Department of Shenzhen Maternal and Child Health Hospital
Consultant Physician in the Department of Reproductive Medicine of the University of Hong Kong Shenzhen Hospital
President of the Multidisciplinary (MDT) Branch of Reproductive Health of Shenzhen Health Management Association

Cardiovascular Disease

Blood Omega-3 Levels Predict Risk for Major Diseases: The FORCE Studies



Prof. William Harris

Senior Professor of University of South Dakota, USA
President of the Fatty Acid Research Institute
Founder of the Omega-3 Index and Renowned Scientist in Clinical Omega-3 Research

Research and Development Progress of Omega-3 Fatty Acid Drugs in the Cardiovascular Field



Cheng Su

R&D Director, Chengdu Gowell Biopharmaceutical Co., Ltd., China
Expert in Omega-3-Drug Research

EPA is the Optimal Lipid Treatment in Preventing the Major Cardiovascular Events



Prof. Bo Yang

Director of the Institute of Lipid Medicine, Wenzhou Medical University, China
Expert in Nutritional Epidemiology, Lipid Nutrition, and Functional Evaluation of Health Food

Cancer

Existing Evidence for Anti-cancer Effects of Omega-3 Fatty Acids and Possible Strategies for Their Efficient and Specific Nano-delivery to Cancer Tissues



Prof. Gabriella Calviello

Senior Investigator, Medicine and Surgery, Università Cattolica del Sacro Cuore, Rome, Italy

Leading Researcher in Molecular Mechanisms of Anti-tumoral and Anti-inflammatory Effects of Omega-3 Polyunsaturated Fatty Acids.

The Association between Fatty Acid Profile and the Quality of Life among Cancer Survivors



Prof. Jinming Yu

Professor of Fudan University School of Public Health, China

Member of the Health Promotion and Education Expert Steering Committee of the National Health Commission, China

Vice President of China Association for Health Promotion and Education

Application and Practice of Omega-3 Fatty Acids in Enteral and Parenteral Nutrition for Cancer Patients



Prof. Ying-hua Liu

Director of the Department of Nutrition, the First Medical Center of PLA General Hospital, China

President of the Clinical Nutrition and Health Branch of the Chinese Health Management Association

Vice Chairman and Secretary General of the Clinical Nutrition Branch of the Chinese Nutrition Association

Diabetes/Metabolic Syndrome

Does Omega-3 PUFAs Supplementation Improve Metabolic Syndrome and Related Cardiovascular Diseases? A Systematic Review and Meta-Analysis of Randomized Controlled Trials



Prof. Xing-guo Wang

Director of the International Joint Laboratory for Lipid Nutrition and Safety, Jiangnan University, China
Vice President of the Nutrition Branch of the China Grain and Oil Association
Outstanding Scientist in the fields of Oil Processing, Nutritional Safety, and Functional Oils

Omega-3 PUFA and Type 2 Diabetes



Prof. Duo Li

Chief Professor of the Institute of Nutrition & Health, Qingdao University, China
Member of WHO Expert Advisory Panel on Nutrition
Member of FAO/WHO Expert Consultation on Fats and Fatty Acids in Human Nutrition
Outstanding Scientist in Studying Omega-3 and Public Health

Clinical Application of Omega-3 in Diabetes Management: Current Status and Prospects



Prof. Bin Wang

Director of the Department of Clinical Nutrition, Shenzhen Longgang Central Hospital, China
Vice President of the Plant Nutrition and Health Branch of the China Health Management Association
Expert in Dietary Management of Chronic Diseases

Brain/Mental Health

Omega-3 Fatty Acids in Neurotrauma: A Journey of Hope



Prof. Adina T. Michael-Titus

Professor of Neuroscience at Barts and The London School of Medicine and Dentistry, Queen Mary University of London, UK
President-Elect of the International Society for the Study of Fatty Acids and Lipids
Leading Scientist in Studying Therapeutic Effects of Omega-3 on Spinal Cord and Brain Injury

Omega-3 Fatty Acids for Anxiety and Depression in Long COVID: Unraveling the Inflammation Theory of Common Mental Disorders



Prof. Kuan-Pin Su

Deputy Superintendent of An-Nan Hospital, China Medical University, Taiwan, China

Pioneering Researcher in Nutritional Psychiatry Research

Leading Physician-Scientist in the Treatment of Depression with Omega-3 Fatty Acids

The Effectiveness of the Omega-3 Lipid, Lyso-PC-DHA, in the Treatment of Degenerative Brain Neuropathy and Retinopathy



Prof. Sugasini Dhavamani

Investigator, University of Illinois at Chicago, USA

Expert in DHA Neurobiology and Bio-utilization

Forum Special Session: Product Development and Innovation

Invited scientists from various fields (including but not limited to the following guests) will interact and discuss comprehensively about product innovation based on various application needs, including raw materials of omega-3, production processes, formulas, biotechnology, clinical applications, etc. All attendees are welcome to attend.

Design and Development of Omega-3 Healthy Food



Prof. Changhu Xue

Dean of the College of Food Science and Engineering of Ocean University of China (OUC)

Dean of the Qingdao Institute of Marine Bioresources for Nutrition & Health Innovation of China

Outstanding Scientist in Efficient Utilization of Lipid Resources and Marine Health Food

Current Status and Prospects of Quality Standard for Marine Functional Lipid Products



Prof. Kailiang Leng

Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences, China

Expert in Aquatic Product Processing and Comprehensive Utilization, Quality Safety and Standardization



Prof. Weiren Hu

Agricultural Biotechnology Researcher

Expert in Microencapsulation of Polyunsaturated Fatty Acids



Prof. Yuming Wang

College of Food Science and Engineering, Ocean University of China

Expert in Nutritional Metabolism and Health Benefits of Functional Lipids



Prof. Qiu Cui

Expert in Industrial Production and Fermentation Process Design and Optimization of Novel Microbial Lipids



Prof. Cun Yang

Beijing University of Chemical Technology, China

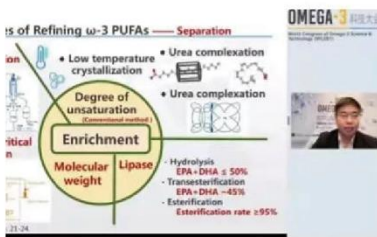
Expert in Development and Industrialization Promotion of New Products

◆ Links to Previous Omega-3 Meetings:



2021 World Congress of Omega-3 Science & Technology [First day replay]

[>>Jump Link<<](#)



2021 World Congress of Omega-3 Science & Technology [Second day replay]

[>>Jump Link<<](#)



2022 International Forum on "Omega-3 Fatty Acids and Anti-aging"

[>>Jump Link<<](#)

Speaker

The Interplay between Depression, Inflammation and Polyunsaturated Fatty Acids

Prof. Kuan-Pin Su
China Medical University
A pioneer in nutritional psychiatric research and a top world-expert in the management of depression with omega-3 fatty acids

Supplementation increased plasma DHA in players

Supplementation omega-3 mitigated the increase in NFL during seasonal play



ORGANIZERS



Omega-3 and Global Health Institute (OGHI) is a non-profit organization. OGHI's mission is to foster an international multi-disciplinary collaborative network dedicated to translating omega-3 science and technology to practical solutions for global health problems, through education, research and development, and implementation. OGHI aims to: 1) increase public awareness about the power and impact that omega-3 fatty acids have in the improvement of global health; 2) promote international collaboration on translational research to identify the most persistent challenges in global health and vulnerable (at-risk) populations that can be readily benefited with Omega-3 fatty acids; 3) develop cost-effective omega-3-based solutions to meet the special needs of various health problems for different populations; 4) develop bio-technologies to secure the resources/availability of omega-3 to meet the increased global demand; and 5) most importantly, help implement omega-3-based interventions and practices by integrating the efforts of governments, medical organizations, charitable foundations and industry to produce measurable real-world impact on global health.



International Society for Omega-3 Research (ISOR) is a nonprofit organization committed to increasing understanding through research and education of the role of Omega-3 fatty acids in health and disease. The ISOR aims to bring together highly active investigators in the field, particularly young scientists interested in Omega-3, to exchange ideas/thoughts, establish collaborations, adopt new technologies, and most importantly, promote and maintain a high standard of Omega-3 research.



eChinaHealth is an independent medical education company and has offices in San Francisco, Shanghai, and Qingdao. It provides integrated healthcare media, conferences & events, and International Medical Training in China.

eChinaHealth collaborates with top global societies and institutions, including American Society of Clinical Oncology (ASCO), Endocrine Society (ES), American Chemical Society (ACS), MJH Life Sciences, and European COR2ED Medical Education, providing Chinese doctors' access to the latest research and clinical progress in the world and introducing China achievements to the world.