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FATS, OILS AND LIPIDS

For a Healthy and











BOOK OF ABSTRACTS

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CONTENTS

	Page
COMMITTEE / ORGANISATION	IV
PLENARY SPEAKER / KEYNOTE SPEAKER	V
PROGRAMME AT A GLANCE	VII
LECTURE PROGRAMME	XI
Monday, 18 October 2021	XI
Tuesday, 19 October 2021	XV
Wednesday, 20 October 2021	XIX
Thursday, 21 October 2021	XXIII
OTHER CONGRESS EVENTS	XXVII
EXHIBITION GUIDE	XXVIII
ABSTRACTS OF LECTURES	1
ABSTRACTS OF POSTERS	178
LIST OF PARTICIPANTS	313
Alphabetical	313
Ordered by Countries	323
AUTHORS INDEX	332

COMMITTEE / ORGANISATION

The European Federation for the Science and Technology of Lipids (Euro Fed Lipid e.V.) cordially invites you to attend its 18th International Congress:

Fats, Oil and Lipids
For a Healthy and Sustainable World
18 - 21 October 2021, On-Line Congress

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ORGANISATION

Euro Fed Lipid Headquarters, Frankfurt/DE

Sevim Saritaş

PLENARY SPEAKERS / KEYNOTE SPEAKERS

PLENARY SPEAKERS

MONDAY, 18 OCTOBER 2021



EUROPEAN LIPID TECHNOLOGY AWARD

Enzyme Discovery and Engineering for Applications in the Modification of LipidsUwe T. Bornscheuer, Greifswald, DE

TUESDAY, 19 OCTOBER 2021



EUROPEAN LIPID SCIENCE AWARD

Omega-3 Fatty Acids for Optimal Health across the Life Course Philip C. Calder, University of Southampton, UK

WEDNESDAY, 20 OCTOBER 2021



DGF NORMANN MEDAL AWARD

Minimizing Waste of Foods Rich in Omega-3 Fatty Acids by Preventing Lipid Oxidation C. Jacobsen, National Food Institute, Kgs. Lyngby/DK



SCI YOUNG SCIENTIST AWARD

Adipose Tissue Inflammation in Human Obesity and Response to Chronic Marine Omega3 Fatty Acid Supplementation: The BIOCLAIMS Study at the University of Southampton
H. Fisk, Southampton/GB



EUROPEAN YOUNG LIPID SCIENTIST AWARD

Examining the role of Endogenous Factors for Lipid Oxidation in Muscle Food Systems and Development of New Cost-effective Stabilization Technologies

Haizhou Wu, Chalmers University of Technology, Gothenburg, Sweden

THURSDAY, 21 OCTOBER 2021



SFEL: CHEVREUL MEDAL AWARD

Analysis and Application of Microbial Functions Expanding Lipid Science Jun Ogawa, University of Kyoto, Japan

KEYNOTE SPEAKERS



Bioeconomy and Green Deal

How Plant Biotechnology can help deliver a Greener Future Johnathan Napier, Rothamsted Research, UK



Bioscience and Technology

Microbial Oil Production with the Oleaginous Yeast Cutaneotrichosporon oleaginosus.

A Journey from Genomics to Technical Scale Oil Production

Thomas Brück, Technical University of Munich (TUM), DE



Oxygenase-Based Whole-Cell Biotransformation of Fatty Acids into Industrially Relevant Chemicals J.-B. Park, Ewha Womans University, Seoul/KR



Contaminants

Mineral Oil Contamination in Food: A Comprehensive Journey beyond the Hump Giorgia Purcaro, University of Liége, BE



Contaminants

Mitigation of Mineral Oil Compounds in Edible Oils and Fats

Ludger Brühl, Max Rubner Insitut, DE





Dairy and Animal Lipids

Refining By-products Rich in Free Fatty Acids: Are they the "ugly duckling" Among Feeding Fats for **Monogastric Animals?**

Alba Tres, University of Barcelona, ES



Deep Frying

Different Routes for Degradation of Fats and Oils at Room and Elevated Temperature Christian Gertz, Maxfry GmbH, Hagen, DE



Health and Nutrition

Adipose Tissue as an Interface between our Body and the Enviroment Matthias Blüher, University Hospital of Leipzig, DE



Insect Lipid

Insect Oils and Potential Applications

Geert Verheyen, RADIUS, Thomas More University of Applied Sciences, Geel, BE



Lipidomics

Shotgun Lipidomics of Tissue Biopsies

Andrej Shevchenko, MPI of Moleculer Cell Biology and Genetics, DE



Lipid Oxidation

The Location, Orientation and Buoyance effects of Radical Probes in Micellar and Oil-in. Water **Emulsions: The Diving Swan Analogy**

Carolina Aliga, University of Santiago de Chile, CL



Marine and Algae Lipids

n-3 LC-PUFA from Microalgae: From Green Water to Health Conscious Consumer

Imogen Foubert, Katholieke Universiteit Leuven Kulak, BE



Marine and Algae Lipids

Potential Benefits of Omega-3 Fatty Acids Supplementation to Patients Infected with SARS-CoV-2

Inar Castro, Research Innovation and Dissemination Center of São Paulo Research Foundation, São Paulo, BR



Oleochemicals

Isomerizing Metathesis as a Concept for the Valorization of Renewables

Luks Goossen, University of Bochum, DE



Olive Oil and Vegetable Oils

Latest Developments in EU Marketing Standards for Olive Oil

Laura Alexandrescu, DG AGRI, European Commission, DG Agriculture and Rural Development, Brussels, BE



Olive Oil and Authenticity

Toward a Continuum of Actions from Official Approval to Commercial Implementation of Health, Nutrition and Provenance Claims. The Case of Olive Oil

Maria Tsimidou, Aristotle University of Thessaloniki, GR



Physical Chemistry

Nanostructure of Cocoa Butter in the Molten, Liquid Crystalline and Solid State

Michael Rappolt, University of Leeds, UK



Plant Lipids and Vegetable Oils

Plant Oils Volatilomics. Which Questions does it Answer?

Henryk H. Jelen, Poznan University of Life Sciences, PL



Processing and Sustainability

Ethanolic mild Extraction of Dehulled Rape Seed - The long way to EthaNa

Gunter Börner, B+B Engineering, Magdaburg, DE

Monday, 18 October 2021

	Meeting room 1			
09.30 a.m.	. Welcome			
09.50 a.m.		European Lipid Te	echnology Award	
10.30 a.m.		Coffee	Break	
	Meeting room 1	Meeting room 2	Meeting room 3	Meeting room 4
11.00 a.m.				
11.20 a.m.	Processing and			
11.40 a.m.	Sustainability – Rapeseed/Oilseed	Exhibitor Presentations	Analytics	Marine and Algae Lipids
12.00 a.m.	Valorisation			
12.20 a.m.				
12.40 p.m.		Lunch – Table top Exhi	bition (Virtual Booths)	
01.40 p.m.		Bioscience and		Lipid Oxidation - Factors Affecting Antioxidant Efficiency
02.00 p.m.	Processing and Sustainability/Bio-economy			
02.20 p.m.	and Green Deal Joint Session – Sustainability Biotec	Biotechnology	Analytics	
02.40 p.m.	and Bio-economy for the Lipid Industry			Emolency
03.00 p.m.				
03.20 p.m.		Coffee	Break	
03.50 p.m.				
04.10 p.m.	Processing and		Olive Oil and Authenticity -	
04.30 p.m.	Sustainability – Sustainable Oil Processing	Bioscience and Biotechnology	Health, Phenols and Innovative Approaches	Marine and Algae Lipids
04.50 p.m.	for the Future I		minovative Approacties	
05.10 p.m.				
05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (17:30–18:30)			

OTHER CONGRESS EVENTS

Euro Fed Lipid General Assembly

Wednesday, 20 October 2021, 17:30

Euro Fed Lipid members are cordially invited to participate.

Poster Award

The best posters on display will receive the Euro Fed Lipid poster award - consisting of a one year free subscription to the European Journal of Lipid Science and Technology and 250 Euro in prize money.

The awards are sponsored by Wiley-VCH and Elsevier.

Tuesday, 19 October 2021

	Meeting room 1				
09.30 a.m.	European Lipid Science Award				
10.30 a.m.		Coffee	Break		
	Meeting room 1	Meeting room 2	Meeting room 3	Meeting room 4	
11.00 a.m.					
11.20 a.m.		Lipid Oxidation –			
11.40 a.m.	Oleochemicals	Microencapsulation and	Exhibitor Presentations	Insect Lipids	
12.00 a.m.		Pickering Emulsions			
12.20 a.m.					
12.40 p.m.	Lunch – Table top Exhibition (Virtual Booths)				
01.40 p.m.					
02.00 p.m.		Olive Oil and	Plant Lipids and	Processing and	
02.20 p.m.	Oleochemicals - Polymer and Application	Authenticity – Authenticy, Policy	Vegetable Oils – Plant Lipids and	Sustainability – Sustainable Oil Processing	
02.40 p.m.		and Research	Volatilomics	for the Future II	
03.00 p.m.					
03.20 p.m.		Coffee	Break		
03.50 p.m.					
04.10 p.m.	Marine and Algae Lipids/ Lipid Oxidation Joint	Olive Oil and Authenticity –			
04.30 p.m.	Session - Prevention of Marine Lipids	OLEUM: Final Results and New Approaches	Health and Nutrition	Deep Frying	
04.50 p.m.					
05.10 p.m.					
05.30 p.m.	POS	TER SESSION AND TABLE 1	TOP EXHIBITION (17:30–18	:30)	

Wednesday, 20 October 2021

	Meeting room 1				
09.30 a.m.	SCI Young Scientist Award				
09.50 a.m.	DGF Normann Medal Lecture				
10.30 a.m.		Coffee	Break		
	Meeting room 1	Meeting room 2	Meeting room 3	Meeting room 4	
11.00 a.m.					
11.20 a.m.		Plant Lipids and	Lipid Oxidation:		
11.40 a.m.	Health and Nutrition	Vegetable Oils - From Analysis	Impact of Processing	Physical Chemistry	
12.00 a.m.		to Application	on Lipid Oxidation		
12.20 a.m.					
12.40 p.m.		Lunch – Table top Exh	ibition (Virtual Booths)		
01.40 p.m.					
02.00 p.m.	Lipid Oxidation –	Plant Lipids and	Olive Oil and Authenticity		
02.20 p.m.	Prevention of Oxidation by Antioxidants	Vegetable Oils – Plant Lipidomics	– Quality and Technology	Physical Chemistry	
02.40 p.m.	by Antioxidants	Plant Lipidomics	Aspects		
03.00 p.m.					
03.20 p.m.		Coffee	e Break		
03.50 p.m.					
04.10 p.m.			Olive Oil and Authenticity –		
04.30 p.m.	Contaminants	Exhibitor Presentations	Spectroscopy in the Analysis of Olive Oil	FLASH POSTER PRESENTATIONS	
04.50 p.m.			Analysis of Olive Oil		
05.10 p.m.					
	Zoom online Meeting				
05.30 p.m.	Euro Fed Lipid General Assembly (17:30-18:30)				

Thursday, 21 October 2021

	Meeting room 1			
09.30 a.m.	SFEL Chevreul Medal Lecture			
10.30 a.m.		Coffee	Break	
	Meeting room 1	Meeting room 2	Meeting room 3	Meeting room 4
11.00 a.m.				
11.20 a.m.				
11.40 a.m.	Health and Nutrition	Dairy and Animal Lipids	Lipidomics	Contaminants
12.00 a.m.				
12.20 a.m.				
12.40 p.m.		Lunch – Table top Exh	ibition (Virtual Booths)	
01.40 p.m.				
02.00 p.m.				
02.20 p.m.	Exhibitor Presentations	Dairy and Animal Lipids	Lipidomics	FLASH POSTER PRESENTATIONS
02.40 p.m.				
03.00 p.m.				
03.20 p.m.	Closing and Announcement of the 19th Euro Fed Lipid Congress and Expo			
03.50 p.m.	Coffee Break			

	European Lipid Technology Award Meeting room 1
09.30 a.m.	Welcome
	Karin Schwarz, Markus Dierker, Bertrand Matthäus Chair: Carl Arevang
09.50 a.m.	EUROPEAN LIPID TECHNOLOGY AWARD LECTURE Enzyme Discovery and Engineering for Applications in the Modification of Lipids Uwe T. Bornscheuer, Greifswald, DE
10.30 a.m.	Coffee Break
	Processing and Sustainability: Meeting room 1 Rapeseed/Oilseed Valorisation
	Chairs: Wim de Greyt, Jeannette Hollien
11.00 a.m.	For a New Theoretical Approach of Mechanical Extraction through the Example of Dehulled Sunflower P. Carré, Pessac/FR
11.20 a.m.	An Innovative Approach to Rapeseed/Canola Processing M. Kaválek, Česká Skalice/CZ
11.40 a.m.	Pilot Plant for a Continuous Dehulling, Drying and Conditioning of Rapeseed in a Fluidized Bed Application F. Sajontz, Magdeburg/DE, A. Pior, Magdeburg/DE, F. Steffler, Leuna/DE, M. Henneberg, G. Börner, Magdeburg/DE
12.00 p.m.	Requirements for Rapeseed Proteins for Use in Food and Feed <u>J. Palomino, Magdeburg/DE</u> , M-C. Baune, K. Heinzelmann, Quakenbruck/DE, C. Hald, C. Dawid, München/DE
12.20 p.m.	Impact of Filter Screens on Bleaching Earth Consumption S. Neufeld, Rosenberg/DE
12.40 p.m.	Table Top Exhibition – Lunch Break
	Processing and Sustainability: Sustainability and Bio-economy Meeting room 1 for the Lipid Industry (joint session)
	Chairs: Wim de Greyt, Jeannette Hollien, Christine Lang
01.40 p.m.	KEYNOTE LECTURE How Plant Biotechnology can help Deliver a Greener Future J. Napier, Hertfordshire/GB
02.20 p.m.	Climate Change. What is it and What can the Oil Seed Industry do about it? A.R. Paine, Horncastle/GB
02.40 p.m.	Development and Future Prospects of Enzymatic Biodiesel A.R. Madsen, Lyngby/DK, T. Balle, R. Lindström, Lyngby/DK
03.00 p.m.	Helping Renewable Diesel become an Achievable Goal V. Ribeiro Celinski, Moosburg/DE, C. Rodriguez Gaia, Yuncos/ES
03.20 p.m.	Coffee Break
	Processing and Sustainability: Sustainable Oil Processing for the Future I
	Chairs: Wim de Greyt, Jeannette Hollien
03.50 p.m.	KEYNOTE LECTURE Ethanolic Mild Extraction of Dehulled Rape-/Canola-Seeds - The Long Way to EthaNa G. Börner, Magdeburg/DE, A. Pior, Magdeburg/DE, F. Steffler, Leuna/DE
04.30 p.m.	Simultaneous Production of Oil and Proteins from Oilseeds using 2-methyloxolane as an Alternative Bio-based Solvent to Hexane O. Claux, Avignon/FR, V. Rapinel, P. Goupy, Avignon/FR, N. Patouillard, Dunkerque/FR, M. Abert-Vian, Avignon/FR, L. Jacques, Dunkerque/FR, F. Chemat, Avignon/FR
04.50 p.m.	Has the Time Finally come for Production of High Quality Oleochemicals by use of Enzyme Technologies H.C. Holm, Hellerup/DK
05.10 p.m.	Applications of New Thin Film-short Path Evaporation Technologies in the Purification of Edible Oils E. Hernandez, Tomball, TX/US, P. Alasti, Stoughton, MA/US
05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (5:30 p.m. – 6:30 p.m.)

	European Lipid Technology Award Meeting room 1
09.30 a.m.	Welcome
03.00 a.m.	Karin Schwarz, Markus Dierker, Bertrand Matthäus
	Chair: Carl Arevang
09.50 a.m.	EUROPEAN LIPID TECHNOLOGY AWARD LECTURE Enzyme Discovery and Engineering for Applications in the Modification of Lipids Uwe T. Bornscheuer, Greifswald, DE
10.30 a.m.	Coffee Break
	Exhibitor Presentations Meeting room 2
	Chairs: Carl Arevang
11.00 a.m.	Clariant Produkt (Deutschland) GmbH, Frankfurt/DE
11.20 a.m.	Laix Technologies UG, Eschweiler/DE
11.40 a.m	J. Rettenmaier & Söhne, Rosenberg/D
12.00 p.m.	Milestones srl, Sorisole/IT
12.20 p.m.	ТВА
12.40 p.m.	Table Top Exhibition – Lunch Break
	Bioscience and Biotechnology Meeting room 2
	Chairs: Robert Kourist, Pierre Villeneuve
01.40 p.m.	KEYNOTE LECTURE Oxygenase-Based Whole-Cell Biotransformation of Fatty Acids into Industrially Relevant Chemicals JB. Park, Seoul/KR, F. Hollmann, Delft/NL, U.T. Bornscheuer, Greifswald/DE
02.20 p.m.	Bile Salt-stimulated Catalytic Versatility and Structural Traits of sn-1 Stereoselective Lipase from Cordyceps militaris J.O. Lee, Seoul/KR, J.Y. Park, Y.S. Choi, E.H. Yang, H.N. Park, P.S. Chang, Seoul/KR
02.40 p.m.	Discovery of a Novel Stereoselective Lipase from Agricultural Products: A Case Study of sn-1 lipase from Peanut (Arachis hypogaea) H.N. Park, Seoul/KR, J.Y. Park, E.H. Yang, Y.S. Choi, J.O. Lee, P.S. Chang, Seoul/KR
03.00 p.m.	Enzymatic Interesterification of Palm-based Oil Blend: Physicochemical Properties, Crystallization Behaviors and Oxidative Stabilities Y. Wang, Guangzhou/CN, W.J. Lee, J. Ye, Guangzhou/CN, C.C. Akoh, Athens/US, Z. Zhang, Guangzhou/CN
03.20 p.m.	Coffee Break
	Bioscience and Biotechnology Meeting room 2
	Chairs: Robert Kourist, Pierre Villeneuve
03.50 p.m.	KEYNOTE LECTURE Microbial Oil Production with the Oleaginous Yeast <i>Cutaneotrichosporon oleaginosus</i> . A Journey from Genomics to Technical Scale Oil Production T.B. Brück, Garching/DE
04.30 p.m.	Sterol Modified Yeast <u>A. Emmerstorfer-Augustin, Graz/AT</u> , A. Radkohl, L. Bernauer, H. Pichler, Graz/AT
04.50 p.m.	Exploring the Diversity of Nature in the Discovery of New Lipases S. Landvik, Lyngby/DK
05.10 p.m.	Lipase Catalyzed Acidolysis of Sunflower Phosphatidylcholine towards Phospholipids Rich in Cctanoic Acid: Optimization using Response Surface Methodology F. Hubert, Laval/FR, M. Côme, C. Loiseau, L. Poisson, F. Ergan, Laval/FR
05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (5:30 p.m 6:30 p.m.)

09.30 a.m. Welcome Karin Schwarz, Markus Dierker, Bertrand Matthäus Chair Carl Arevang 09.50 a.m. EUROPEAN LIPID TECHNOLOGY AWARD LECTURE Express Discovery and Engineering for Applications in the Modification of Lipids User T. Bornscheuer, Greifawald, DE 10.30 a.m. Coffee Break Analytics Meeting room 3 Chairs. Torben Küchler, Florence Lacoste Analytics Meeting room 3 Chairs. Torben Küchler, Florence Lacoste 11.00 a.m. Detection of Adulteration of Sunflower Oil with Safflower Oil Using Some Triacylglycerol Components and Tocopherol Compounds N. Bassara, Islanbul/LTR. O. Anuk. F. Altuner, Istanbul/TR, M. Tasan, Tekirdag/TR, A. Tekin, Ankara/TR, O. Zorkikicerler, Larin/TR 11.20 a.m. A Practical Approach to Validate Quantitative NIR Methods for the Anaylsis of Fats and Oils C. Certz, Hagen/DE, A. Certz, Hagen/DE 11.40 a.m. The Development of a Universal Analyses for Fats and Oil Refining and Processing J.D. Speed, Oxford/GIB 12.00 p.m. Lipid Epoxide Quantification in Food Emulsions by 'H-"C HSQC NMR Spectroscopy V.J.B. Boerkamp. Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D. W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, M. G. Chairs. Torben Küchler, Florence Lacoste 01.40 p.m. Table Top Exhibition – Lunch Break Analytics Analytics Meeting room 3 Chairs. Torben Küchler, Florence Lacoste 01.40 p.m. UniPLC-EST-MS/MS Analysis of Phospholipid Regioisomers Wingtles Wageningen/NL, M. Hunnebelle, HG. Janssen, JP. Vincken, Wageningen /NL 20.20 p.m. Determination of Geometric Isomers of Disaturated Triacylglycerols by GC/MS and their Possible Applications J. Salas. Servilla/SE. Meartiner-Force, M. Venegas Calerion,		European Lipid Technology Award Meeting room 1
09.50 a.m. EUROPEAN LIPID TECHNOLOGY AWARD LECTURE EXTYME Discovery and Engineering for Applications in the Modification of Lipids Uwe T. Bornscheuer, Greifswald, DE 10.30 a.m. Coffee Break Analytics Meeting room 3 Chairs. Torben Küchler, Fiorence Lacoste 11.00 a.m. Detection of Adulteration of Sunflower Oil with Safflower Oil Using Some Triacylglycerol Components and Tocopherol Compounds N. Basaran, Islandul/TB. O. Anuk, F. Altuner, Islandul/TR, M. Tasan, Tekirdag/TR, A. Tekin, Ankara/TR, O. Cyalkicilerie, Lami/TR 11.20 a.m. A Practical Approach to Validate Qunatitative NIR Methods for the Analysis of Fats and Oils C., Gertz, Hagen/DE 11.40 a.m. The Development of a Universal Analyser for Fats and Oil Refining and Processing J. D. Speed. Oxford/GB. S. Wood, Oxford/GB. 12.00 p.m. Lipid Epoxide Quantification in Food Emulations by 1H-12 HSQO MMR Spectroscopy Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL D. Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL D. Wageningen/NL, D. W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL D. Wageningen/NL, D. Walen, Lamination of Polyglycerol Polyricinoleate (PGPR) in Foods C. Su. Schent/SB P. Van der Meeren, B. De Meulenaer, Ghent/SE 12.40 p.m. Table Top Exhibition – Lunch Break Analytics Meeting room 3 Chairs. Torben Küchler, Florence Lacoste Nestigation of Integral Stereoselectivity of Lipase using Chiral-phase HPLC and Computational Modeling of the Kinetles Y.S. Chols. Seoul/KR, J.Y. Park, E.H., Yang, H.N. Park, J.O. Lee, P.S. Chang, Seoul/KR UPILC-ESI-MS/MS Analysis of Phospholipid Regioisomers M. Fabritus, Turks/Fl, B. Yang, Turks/Fl 20.20 p.m. Determination of Geometric Isomers of Disaturated Triacylglycerols by GC/MS and their Possible Applications J. Salas. SevillaES. E. Martines-force, M. Venegas-Calerón, R. Garcés, Sevilla/ES 20.	09.30 a.m.	· · · · · · · · · · · · · · · · · · ·
99.50 a.m. EUROPEAN LIPID TECHNOLOGY AWARD LECTURE Enzyme Discovery and Engineering for Applications in the Modification of Lipids Uver 1. Bornscheuer, Greifswald, De Analytics Meeting room 3 Chairs. Torben Küchler, Florence Lacoste 11.00 a.m. Detection of Adulteration of Sunflower Oil with Safflower Oil Using Some Triacylglycerol Components and Tocopherol Compounds N. Basaran. Istanbul/TE. O. Anuk, F. Altuner, Istanbul/TR, M. Tasan, Tekirdag/TR, A. Tekin, Ankara/TR, O. Cydikicierler, Emir/TR 11.20 a.m. A Practical Approach to Validate Qunatitative NIR Methods for the Anaylsis of Fats and Oils C. Gertz, Hagen/DE 11.40 a.m. The Development of a Universal Analyser for Fats and Oil Refining and Processing JD. Speed. Oxford/SB, S. Wood, Oxford/SB 12.00 p.m. Julid Febxide Quantification in Food Emulsions by 'H-'PC HSQO NMR Spectroscopy M.J.P. Speckamo, Wageningen/NL D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL 12.20 p.m. Development of a GC-FID Method for the Quantitative Determination of Polyglycerol Polyricinoleate (PGPR) in Foods C.Su. Chent/JEE, P. Van der Meeren, B. De Meulenaer, Ghent/BE 12.40 p.m. Table Top Exhibition - Lunch Break Analytics Meeting room 3 Chairs. Torben Küchler, Florence Lacoste Ohiors. Torben Küchler, Florence Lacoste Chairs. Torben Küchler, Florence Lacoste Ohiors. Hall Top Exhibition of Integral Stereoselectivity of Lipase using Chiral-phase HPLC and Computational Modeling of the Kinatice Y.S. Chol, Seoul/KR, J.Y. Park, E.H. Yang, H.N. Park, J.O. Lee, P.S. Chang, Seoul/KR OLO p.m. MelPLC-ESI-MS/MS Analysis of Phospholipid Regioisomers M.Eabritius, Turku/FI, B. Yang, Turku/FI OLO p.m. Melple-Cs-Bress Miss Analysis of Phospholipid Regioisomers M.Eabritius, Turku/FI, B. Kantrinez-Force, M. Venegas-Calerón, R. Garcés, Sevilla/ES OLO p.m. Melple-Cs-Bress Melple-Cs-Bre		Karin Schwarz, Markus Dierker, Bertrand Matthäus
Enzyme Discovery and Engineering for Applications in the Modification of Lipids 10.30 a.m. Coffee Break Coffee Break Chairs. Torben Küchler, Florence Lacoste 11.00 a.m. Detection of Adulteration of Sunflower Oil with Safflower Oil Using Some Triacylglycerol Components and Tocopherol Compounds N. Basaran, IstanbuUTR, O. Anuk, F. Altuner, IstanbuUTR, M. Tasan, Tekirdag/TR, A. Tekin, Ankara/TR, O. Ozdikicierler, Izmir/TR 11.20 a.m. A Practical Approach to Validate Qunstitative NIR Methods for the Anaylsis of Fats and Oils C. Certz, Hagen/DE 11.40 a.m. The Development of a Universal Analyser for Fats and Oil Refining and Processing J. D. Speed, Oxford/SB, S. Wood, Oxford/SB 12.00 p.m. Lipid Epoxide Quantification in Food Emulsions by 'H-"C HSQO NMR Spectroscopy V.J.P. Boerkamp, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D.W.H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J.P.M Duynhoven, Wageningen/NL, D. W. H. Merkx, J. Wang, J.P. Vincken, M. Hennebelle, J. Meeting room 3 Chairs. Torben Küchler, Florence Lacoste 01.40 p.m. Investigation of Integral Stereoselectivity of Lipase using Chiral-phase HPLC and Computational Modeling of the Kinetics Chairs. Torben Küchler, Florence Lacoste 01.40 p.m. UHPLC-ESI-MS/MS Analysis of Phospholipid Regioisomers M. Labritus: Turku/Fl. B. Yang, Turku/Fl 02.20 p.m. Determination of Geometric Isomers of Disaturated Triacylglycerols by GC/MS and their Possible Applications J.J. Salas. Sevilla/ES. E. Martinez-Force, M. Venegas-Caleron, R. Garces, Sevilla/ES 02.40 p.m. An Institute Chair of Different Lipid		· ·
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Chairs. Torben Küchler, Florence Lacoste 11.40 p.m. Investigation of Integral Stereoselectivity of Lipase using Chiral-phase HPLC and Computational Modeling of the Kinetics Y.S. Choi, Seoul/KR, J.Y. Park, E.H. Yang, H.N. Park, J.O. Lee, P.S. Chang, Seoul/KR 12.00 p.m. UHPLC-ESI-MS/MS Analysis of Phospholipid Regioisomers M. Fabritius, Turku/Fl, B. Yang, Turku/Fl 12.20 p.m. Determination of Geometric Isomers of Disaturated Triacylglycerols by GC/MS and their Possible Applications J.J. Salas, Sevilla/ES, E. Martínez-Force, M. Venegas-Calerón, R. Garcés, Sevilla/ES 12.40 p.m. Monitoring the Fate of Different Lipid Classes upon Oxidation using Two-dimensional Liquid Chromatography E. Lazaridi, Wageningen/NL, M. Hennebelle, HG. Janssen, JP. Vincken, Wageningen /NL 13.00 p.m. An in-situ Technique to Conduct DSC Measurements L. Morris, Leeds/GB, L. Metilli, E. Simone, Leeds/GB, P. Hugh, S. Marty-Terrade, York/GB, M. Povey, Leeds/GB 13.20 p.m. Coffee Break 14. Olive Oil and Authenticity — Meeting room 3 15. Health, Phenols and Innovative Approaches 16. Chairs. Diego Luis Garcia Gonzalez, Ina Willenberg 17. KEYNOTE LECTURE 17. Toward a Continuum of Actions from Official Approval to Commercial Implementation of Health, Nutrition and Provenance Claims. The Case of Olive Oil M. Tsimidou, Thessaloniki/GR 18. Artaction and Characterization of Phenolic Compounds in California Olive Pomace and Evaluation of the Antioxidant Activities H. Zhao, Davis/US, S. Wang, Davis/US 18. Artaction and Characterization of Phenolic Composition E. Diaz-Montaña, Seville/ES, M. Barbero-Lopez, R. Aparicio-Ruiz, M.T. Morales, Seville/ES 18. Factors Affecting the Presence of Phenolics in Extra Virgin Olive Oil, Efforts to Increase their Consertation and their Functional Activity on Oxidative Stress, Telomerés Length and Aging	12.40 p.m.	Table Top Exhibition – Lunch Break
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H. Kelebek, Adana/TR, D. Gerasopoulos, Thessaloniki/GR	05.10 p.m.	their Functional Activity on Oxidative Stress, Telomere's Length and Aging A. Kiritsakis, Thessaloniki/GR, <u>T. Keceli, Adana/TR</u> , E. Iorio, Salerno/IT, C. Anousakis, Chania/GR, S. Selli,
05.30 p.m. POSTER SESSION AND TABLE TOP EXHIBITION (5.30 p.m. – 6.30 p.m.)	05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (5.30 p.m 6.30 p.m.)

	European Lipid Technology Award Meeting room 1
09.30 a.m.	Welcome Karin Schwarz, Markus Dierker, Bertrand Matthäus
	Chair: Carl Arevang
09.50 a.m.	EUROPEAN LIPID TECHNOLOGY AWARD LECTURE Enzyme Discovery and Engineering for Applications in the Modification of Lipids Uwe T. Bornscheuer, Greifswald, DE
10.30 a.m.	Coffee Break
	Marine and Algae Lipids Meeting room 4
	Chairs: Charlotte Jacobsen, Ingrid Undeland
11.00 a.m.	KEYNOTE LECTURE Potential Benefits of Omega-3 Fatty Acids Supplementation to Patients Infected with SARS-CoV-2 I. Castro, São Paulo/BR
11.40 a.m.	Relevance of Codium Tomentosum Lipidome Plasticity for Biotechnological Applications F. Rey, Aveiro/PT, P. Cartaxana, T. Melo, R. Calado, Aveiro/PT, R. Pereira, H. Abreu, Ílhavo/PT, P. Domingues, S. Cruz, M.R. Domingues, Aveiro/PT
12.00 p.m.	Polar Lipid Profiling and Antioxidant Activity of <i>Chrysotila pseudoroscoffensis</i> Lipid Extracts A. Moreira, Aveiro/PT, J. Gonçalves, T. Conde, D. Couto, T. Melo, Aveiro/PT, I. Maia, H. Pereira, Faro/PT, J. Silva, Pataias/PT, R. Domingues, C. Nunes, Aveiro/PT
12.20 p.m.	Macroalgae Species-specific Lipidominic Signature: Advantages and Challenges in Sea Vegetables Valorisation of for a Sustainable Development R. Domingues, Aveiro/Portugal/PT, D. Lopes, T. Melo, F. Rey, Aveiro/PT
12.40 p.m.	Table Top Exhibition – Lunch Break
	Lipid Oxidation: Factors Affecting Antioxidant Efficiency Meeting room 4
	Chairs: Fatima Paiva Martins, Karin Schwarz
01.40 p.m.	KEYNOTE LECTURE The Location, Orientation and Buoyance effects of Radical Probes in Micellar and Oil-in-Water Emulsions: The Diving Swan Analogy C. Aliaga, Santiago/CL
02.20 p.m.	Transport of Lipid Oxidation Intermediates and its Impact on the Lipid Oxidation Rate in a Model Food Emulsion S. ten Klooster, Wageningen/NL, J. Buijs, K. Schroën, Wageningen/NL, C. Berton-Carabin, Nantes/FR
02.40 p.m.	Relationships between the Rate of Initiation of Lipid Peroxidation and the Effective Interfacial Concentration of Antioxidants in Olive Oil-in-Water Nanoemulsions C. Bravo-Díaz, Vigo/ES, M. Costa, Porto/PT, J. Freiría-Gándara, S. Losada-Barreiro, Vigo/ES, F. Paiva-Martins, Porto/PT
03.00 p.m.	Plant Protein-stabilized Emulsions: Implications of Protein and Non-protein Components on Lipid Oxidation K. Münch, Wageningen/NL, K. Schroën, S. Stoyanov, Wageningen/NL, C. Berton-Carabin, Nantes/FR
03.20 p.m.	Coffee Break
	Marine and Algae Lipids Meeting room 4
	Chairs: Charlotte Jacobsen, Ingrid Undeland
03.50 p.m.	NEYNOTE LECTURE n-3 LC-PUFA from Microalgae: From Green Water to Health Conscious Consumer l. Fourbet, Kortrijk/BE, E. Mienis, R. Demets, C. Dejonghe, L. Gheysen, Kortrijk/BE
04.30 p.m.	Impact of Extraction Methods on Lipid Composition and Oxidative Status of Nannochloropsis oceanica Oil W. Sun, Wageningen/NL, JP. Vincken, M. Hennebelle, Wageningen/NL
04.50 p.m.	NEO-PUFAs (Isoprostanoids) in Algae and Edible Oils from Marine Species: Biomarkers and Bioactive Lipids <u>T. Durand, Montpellier/FR</u> , C. Vigor, C. Oger, V. Bultel-Poncé, G. Reversat, JM. Galano, Montpellier/FR
05.10 p.m.	Green Extraction of Eicosapentaenoic Acid (EPA) from Nannochloropsis oculata Through High Hydrostatic Pressure (HHP) and Moderate Electric Fields (MEF) S.C. Sousa, Porto/PT, A.P. Carvalho, Porto/PT, C.A. Pinto, R.A. Amaral, J.A. Saraiva, Aveiro/PT, R.N. Pereira, A.A. Vicente, Braga/PT, A.C. Freitas, A.M. Gomes, Porto/PT
05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (5:30 p.m 6:30 p.m.)

	European Lipid Science Award Meeting room 1
09.30 a.m.	Welcome Karin Schwarz, Markus Dierker, Bertrand Matthäus
	Chair: Karel Hrncirik
09.50 a.m.	EUROPEAN LIPID SCIENCE AWARD Omega-3 Fatty Acids for Optimal Health across the Life Course Philip C. Calder, University of Southampton, UK
10.30 a.m.	Coffee Break
	Oleochemicals Meeting room 1
	Chair: Markus Dierker
11.00 a.m.	Isomerizing Metathesis as a Concept for the Valorization of Renewables L. Goossen, Bochum/DE, J. Pollini, Bochum/DE
11.40 a.m.	Branched Fatty Acids: Advancements in Synthesis and Analysis D. Kerstens, Leuven/BE, S. Van Praet, N. Vermeulen, B. Wambacq, B. Sels, Leuven/BE
12.00 p.m.	Biobased Aldehydes from Fatty Epoxides through Thermal Cleavage of β-hydroxy Hydroperoxides N. Duguet, Villeurbanne/FR, T. De Dios Miguel, N.D. Vu, M. Lemaire, Villeurbanne/FR
12.20 p.m.	Aromatic Biobased Latex: From Natural Cashew and Clove Oil to Radical Emulsion Polymerization S, Caillol, Montpellier/FR, V. Ladmiral, P. Lacroix-Desmazes, Montpellier/FR
12.40 p.m.	Table Top Exhibition – Lunch Break
	Oleochemicals: Polymers and Application Meeting room 1
	Chair: Sylvain Caillol
01.40 p.m.	"Solutions" for the Recycling of Homogeneous Catalysts in the Functionalization of Unsaturated Oleo Chemicals T. Seidensticker, Dortmund/DE
02.00 p.m.	Styrene-free Thermosetting Resins from Vegetable Oils D. Cavuoto, Milan/IT, F. Bertini, A. Vignali, N. Ravasio, F. Zaccheria, Milan/IT
02.20 p.m.	Aerobic Oxidation of Fatty Acids and their Esters for Production of Industrial Chemicals A. Cherepanova, Moscow/RU, E. Savel'ev, V. Sapunov, Moscow/RU
02.40 p.m.	Nano-Structured Organogel Lipid Carrier System; Effect of Gamma Oryzanol & Beta Sitosterol Self-Assembling Ability on Oxidative Stability K. Sislioglu, Elazig/TR, D.J. McClements, Amherst/US, İ. Karabulut, Malatya/TR
03.00 p.m.	The Antimicrobial Properties of Quaternary Esters and Quaternary Hydroxyamides K. Sasínová, Prague/CZ, J. Šmidrkal, M. Berčíková, K. Alishevich, Prague/CZ
03.20 p.m.	Coffee Break
	Marine and Algae Lipids/Lipid Oxidation Joint Session: Meeting room 1 Prevention of Marine Lipids Oxidation by Antioxidants
	Chairs: Charlotte Jacobsen, Ingrid Undeland, Fatima Paiva Martins, Karin Schwarz
03.50 p.m.	Oxidative Stability of Side-streams from Cod Filleting Preserved by Antioxidant Dipping and Low Temperature Storage AD.M. Sørensen, Kgs Lyngby/DK, H. Wu, Gothenburg/SE, O. Mejlholm, N. Bøknæs, Svenstrup/DK, I. Undeland, Gothenburg/SE, C. Jacobsen, G. Hyldig, Kgs Lyngby/DK
04.10 p.m.	CROSS – A Clean Label Concept for Preventing Lipid Oxidation of Protein Isolates Recovered from Fish Co-products J. Zhang, Gothenburg/SE, X. Lei, M. Abdollahi, M. Alminger, I. Undeland, Gothenburg/SE
04.30 p.m.	Influence of Nordic F. vesiculosus Extracts on Oxidative and Physical Stability of Fish-Oil-Enriched Mayonnaise A. Getachew, Kgs. Lyngby/DK, W. Liu, D.B. Hermund, S.Lø. Holdt, C. Jacobsen, Kgs. Lyngby/DK
04.50 p.m.	Development and Optimization of Methods to Quantify Lipid Oxidation in Complex Fish Matrices C. Oroy, Elven/FR
05.10 p.m.	Comparison between the Photo- and Auto-oxidative Stability of Aqueous Model Systems Enriched with Photoautotrophic and Heterotrophic n-3 LC-PUFA Rich Microalgae R. Demets, Kortrijk/BE, L. Bonneux, Antwerpen/BE, C. Dejonghe, L. Gheysen, Kortrijk/BE, A. Van Loey, Leuven/BE, I. Foubert, Kortrijk/BE
05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (5:30 p.m. – 6:30 p.m.)

	European Lipid Science Award Meeting room 1
09.30 a.m.	Welcome Karin Schwarz, Markus Dierker, Bertrand Matthäus
	Chair: Karel Hrncirik
09.50 a.m.	EUROPEAN LIPID SCIENCE AWARD Omega-3 Fatty Acids for Optimal Health across the Life Course Philip C. Calder, University of Southampton, UK
10.30 a.m.	Coffee Break
	Lipid Oxidation: Microencapsulation and Pickering Emulsions Meeting room 2
	Chairs: Fatima Paiva Martins, Karin Schwarz
11.00 a.m.	Lipid Oxidation in the Pickering Emulsion Era C. Berton-Carabin, Nantes/FR, A. Schröder, K. Schröen, Wageningen/NL, M. Laguerre, Avignon/FR
11.20 a.m.	Natural Particles can Armor Emulsions against Lipid Oxidation and Coalescence Anja Schröder, Wageningen/NL
11.40 a.m.	Utilization of Potato Proteins and Peptides as Emulsifiers in the Micro Encapsulation of Fish Oil M.E. Bjørlie, Kgs. Lyngby/DK, B. Yesiltas, Kgs. Lyngby/DK, P. J. García-Moreno, F. J. Espejo-Carpio, E.M. Guadix, Granada/ES, A. Jafarpour, E.B. Hansen, P. Marcatili, C. Jacobsen, Kgs. Lyngby/DK, S. Gregersen, Aalborg/DK
12.00 p.m.	Does Wall Material Composition Influence Lipid Oxidation in Freeze-dried Pumpkin Seed Oil Microcapsules? Z. Aksoylu Özbek, Manisa/TR, P. Günç Ergönül, Manisa/TR
12.20 p.m.	Interfacial Properties, Oxidative Stability and Bioaccessibility of Fish Oil-loaded Microcapsules Stabilized with Whey Protein Hydrolysate P.J. Garcia-Moreno, Granada/ES, E.M. Guadix, N.E. Rahmani-Manglano, M. Tirado-Delgado, J.M. Ruiz-Álvarez, T. del Castillo-Santaella, J. Maldonado-Valderrama, Granada/ES, N.C. Jones, S.V. Hoffmann, Aarhus/DK, C. Jacobsen, Kgs. Lyngby/DK, R. Pérez-Gálvez, A. Guadix, Granada/ES
12.40 p.m.	Table Top Exhibition – Lunch Break
	Olive Oil and Authenticity - Authenticity, Policy and Research Meeting room 2
	Chairs: Diego Luis Garcia Gonzalez, Ina Willenberg
01.40 p.m.	KEYNOTE LECTURE Latest Developments in EU Marketing Standards for Olive Oil L. Alexandrescu, DG-AGRI, Brussels/BE
02.20 p.m.	MS-based Lipidomic Analysis of Polar Lipids from Olives and Olive Oil at the University of Aveiro: How far have we come and where should we go? <u>E. Alves, Aveiro/PT, T. Jardim, A. Simoes, T. Melo, F. Rey, Aveiro/PT, M.P. Barros, Nelas/PT, M.R.M. Domingues, P. Domingues, Aveiro/PT</u>
02.40 p.m.	Varietal and Geographical Authentication of Virgin Olive Oil: Proving the Efficiency of Sesquiterpene Fingerprinting B. Torres-Cobos, Barcelona/ES, B. Quintanilla-Casas, Barcelona/ES, A. Romero, A. Ninot, Constantí/ES, R. M. Alonso-Salces, Mar del Plata/AR, T. Gallina Toschi, A. Bendini, Bologna/IT, F. Guardiola, A. Tres, S. Vichi, Barcelona/ES
03.00 p.m.	Authentication of Varietal Origin (cultivar) of Monovarietal Virgin Olive Oils According to their Volatile Profile by HS-SPME-GC-MS and Chemometrics L. Cecchi, Florence/IT, M. Migliorini, E. Giambanelli, A. Cane, B. Zanoni, N. Mulinacci, F. Melani, Florence/IT
03.20 p.m.	Coffee Break
	Olive Oil and Authenticity - OLEUM: Meeting room 2 Final Results and New Approaches
	Chairs: Diego Luis Garcia Gonzalez, Ina Willenberg
03.50 p.m.	A View on the Olive Oil Global Scenario through the results of the EU OLEUM Project T. Gallina Toschi, Bologna/IT, D.L. Garcia-Gonzalez, Seville/ES, A. Bendini, Bologna/IT, A. Maquet, Geel/BE, P. Brereton, Belfast/GB, J. Kanieswska, Brussels/BE
04.10 p.m.	SPME-GC-MS Analysis of Volatile Compounds of Virgin Olive Oil. An Inter-Laboratory Study for Method Development, Performance Evaluation and Application Prospects D.L. Garcia-Gonzalez, Seville/ES, P.A. Golay, Lausaane/CH, P. Lucci, E. Moret, Udine/IT, A, Bendini, T. Gallina-Toschi, E. Casadei, E. Valli, Bologna/IT, R. Aparicio-Ruiz, C. Ortiz-Romero, Seville/ES, M. Servili, R. Selvaggini, Perugia/IT, F. Lacoste, J. Escobessa, Pessac/FR, S. Vichi, B. Quintanilla-Casas, Barcelona/ES
04.30 p.m.	A Harmonized SPME-GC-FID Method for the Analysis of Selected Volatile Markers in Virgin Olive Oils: Some Evidence from the Cooperative Inter-Laboratory Study E. Casadei, Bologna/IT, E. Valli, Bologna/IT, D.L. Garci-Gonzalez, C. Ortiz-Romero, Seville/ES, S. Vichi, B. Quintanilla-Casas, A. Tres, Santa Coloma de Gramenet/ES, T. Bendini, T. Gallina Toschi, Bologna/IT
04.50 p.m.	SPE-GC-FID Method for the Detection of Free and Esterified Hydroxylated Minor Compounds in Virgin Olive Oils P. Lucci, Udine/IT, E. Valli, Bologna/IT, A. Milani, A. Srbinovska, E. Moret, S. Moret, Udine/IT, A. Bendini, Bologna/IT, W. Moreda, Sevilla/ES, T. Gallina Toschi, Bologna/IT
05.10 p.m.	Determination of Freshness in Virgin Olive Oils. The Current Possibilities and the Future Developments M. Servili, Perugia/IT, R. Selvaggini, A. Taticchi, S. Esposto, S. Urbani, G. Veneziani, B. Sordini, L. Daidone, Perugia/IT, D.L. García-González, Sevilla/ES, T. Gallina Toschi, Bologna/IT
05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (5:30 p.m. – 6:30 p.m.)

	European Lipid Science Award	Meeting room 1
09.30 a.m.	Welcome Karin Schwarz, Markus Dierker, Bertrand Matthäus	
	Chair: Karel Hrncirik	
09.50 a.m.	EUROPEAN LIPID SCIENCE AWARD Omega-3 Fatty Acids for Optimal Health across the Life Course Philip C. Calder, University of Southampton, UK	
10.30 a.m.	Coffee Break	
	Exhibitor Presentations	Meeting room 3
	Chairs: Carl Arevang	
11.00 a.m.	Maxfry GmbH, Hagen/DE	
11.20 a.m.	Bruker Optik GmbH, Ettlingen/DE	
11.40 a.m	Gerstel GmbH & Co.KG, Mülheim an der Ruhr/DE	
12.00 p.m.	Merck KGaA, Darmstadt/DE	
12.20 p.m.	TBA	
12.40 p.m.	Table Top Exhibition - Lunch Break	
	Plant Lipids and Vegetable Oils: Plant Lipids and Volatilomics	Meeting room 3
	Chair: Ludger Brühl	
01.40 p.m.	KEYNOTE LECTURE Plant Oils Volatilomics. Which Questions does it Answer? H.H. Jelen, Poznan/PL	
02.20 p.m.	Carotenoid, Tocopherol, and Volatile Aroma Compounds in Eight Sacha Inchi Seed (<i>Plukenetia v</i> Ecotypes A. Valencia, Lima/PE, S. Casimiro-Gonzales, K. Cancino Chávez, F. Ramos-Escudero, Lima/PE	rolubilis L.) Oil
02.40 p.m.	Characteristics of Post-Fermentation Corn Oil J. Susik, Tychy/PL	
03.00 p.m.	Advances in Lipid Research of Apricot D. Zhang, Yangling/CN, Z. Zhao, Yangling/CN	
03.20 p.m.	Coffee Break	
	Health and Nutrition	Meeting room 3
	Chairs: Michel Lagarde, Christian Wolfrum	
03.50 p.m.	A High-fat Diet Enriched in Medium Chain Triglycerides Triggers Hepatic Thermogenesis and In Metabolic Health in Lean and Obese Mice C. Mounier, Montréal/CA, S.A. Rial, A. Jutras-Carignan, K.F. Bergeron, Montréal/CA	nproves
04.10 p.m.	Fermentation, Polar Lipids, and Thrombosis I. Zabetakis, Limerick/IE, R. Lordan, A. Tsoupras, Limerick/IE	
04.30 p.m.	New Insights into Short Chain Fatty Acids from the Gut Microbiome may contribute to Impaired R. Thomas, Corner Brook/CA, S. Cheema, St Johns/CA, K. Doody, Corner Brook/CA, S. Shah, St JoT. Pham, J. Blundell, Corner Brook/CA	
04.50 p.m.	Pro-resolving Potency of SPM-Enriched Oils E. Venegas-Venegas , Zaragoza/ES, C. López-Vicario, Barcelona/ES, B. Angulo, R. Gracia, Zaragoza X. de la Rosa, Boston/US	a/ES,
05.10 p.m.	Omega-3 Glycerides in Weaned Piglet Diet: Improvements in Production, Mortality and Morbio B. Angulo, Zaragoza/ES, E. Venegas-Venegas, L. Gil, S. Diago, J. Letosa, M. Fondevila, Zaragoza/E	
05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (5:30 p.m 6:30 p.m.)	

	European Lipid Science Award Meeting room 1	
09.30 a.m.	Welcome	
	Karin Schwarz, Markus Dierker, Bertrand Matthäus	
00.50	Chair. Karel Hrncirik	
09.50 a.m.	EUROPEAN LIPID SCIENCE AWARD Omega-3 Fatty Acids for Optimal Health across the Life Course Philip C. Calder, University of Southampton, UK	
10.30 a.m.	Coffee Break	
	Insect Lipids Meeting room 4	
	Chair Thomas Piofczyk	
11.00 a.m	KEYNOTE LECTURE Insect Oils and Potential Applications G.R. Verheyen, Geel/BE, F. Meersman, Heist-Op-Den-Berg/BE, S. Van Miert, Geel/BE	
11.40 a.m.	The Effect of the Diet and Killing Methods on Insect Lipids. The Case Study of Black Soldier Fly V. Lolli, Parma/IT, A. Fuso, A.V. Luparelli, F. Bonzanini, G. Leni, S. Sforza, A. Caligiani, Parma/IT	
12.00 p.m.	Replacing Vegetable Oil by Insect Oil in Food Products. Effect of Deodorization on the Sensory Evaluation D.A. Tzompa-Sosa, Ghent/BE, K. Dewettinck, X. Gellynck, J.J. Schouteten, Ghent/BE	
12.20 p.m.	Modulation of Nutritional Value of Hermetia illucens Larvae by Feeding Microalgae-enriched Coffee Silverskin. Amino Acids, Fatty Acids and Carotenoids A. Nartea, Ancona/IT, P. Riolo, S. Ruschioni, S. Ratti, M. Cattalani, L. Corsi, I. Olivotto, E. Foppa Pedretti, N. Frega, D. Pacetti, Ancona/IT	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Processing and Sustainability. Meeting room 4 Sustainable Oil Processing for the Future II	
	Chairs. Wim de Greyt, Jeannette Hollien	
01.40 p.m.	On the Feasibility of Continuous Fat Fractionation by Combination of Scraped Surface Heat Exchangers and Decanter Centrifuge M. Kirimlidou, Berlin/DE, E. Floeter, Berlin/DE	
02.00 p.m.	Soap Carbonate Technology - Sustainable Soapstock Splitting with ${\rm CO_2}$ A. Brandner, Frankfurt/DE, <u>A. Lecca, Frankfurt/DE</u>	
02.20 p.m.	Demonstrating the Viability of Implementing Phospholipases in Alkaline Refining of Rapeseed Oil C. Bhatt, Lyngby/DK	
02.40 p.m.	'SAFE' Ice Condensing System. The Ammonia Free Alternative B. Schols, Zaventem/BE, J. De Kock, Zaventem/BE	
03.00 p.m.	Natural Bleaching Earths Reloaded G. Kacandes, Athens/GR, M. Drossos, Athens/GR	
03.20 p.m.	Coffee Break	
	Deep Frying Meeting room 4	
	Chair. Bertrand Matthäus	
03.50 p.m.	KEYNOTE LECTURE Different Routes for Degradation of Fats and Oils at Room and Elevated Temperatures C. Gertz, Hagen/DE	
04.30 p.m.	Rapeseed Oil Based Oleogels as a Promising New Alternative to Conventional Deep-frying Media S. Nikolay, Detmold/DE, N. Erlenbusch, I. Smit, L. Weber, M. Schubert, B. Matthäus, Detmold/DE	
04.50 p.m.	The Impact of Type of Oil and Fat on the Formation of Acrylamide in Fried Foods C. Gertz, Hagen/DE, S. Seifer, Hagen/DE	
05.10 p.m.	Effect of Intermittent Frying of French Fries on Quality of Low Diglycerides Palm Oil N.A. Ab Karim, Selangor/MY	
05.30 p.m.	POSTER SESSION AND TABLE TOP EXHIBITION (5.30 p.m. – 6.30 p.m.)	

	SCI Young Scientist Award / DGF Normann Medal Award Meeting room 1	
	Chairs: Markus Dierker, Bertrand Matthäus, Kevin W. Smith	
09.30 a.m.	Adipose Tissue Inflammation in Human Obesity and Response to Chronic Marine Omega3 Fatty Acid Supplementation: The BIOCLAIMS Study at the University of Southampton H. Fisk, Southampton/GB, R. Ayres, C. Childs, Southampton/GB, O. Kuda, J. Kopecky, Prague/CZ, E. Antoun, K. Lillycrop, P.C. Calder, Southampton/GB	
09.50 a.m.	DGF NORMANN MEDAL LECTURE Minimizing Waste of Foods Rich in Omega-3 Fatty Acids by Preventing Lipid Oxidation C. Jacobsen, National Food Institute, Kgs. Lyngby/DK	
10.30 a.m.	Coffee Break	
	Health and Nutrition Meeting room 1	
	Chair: Michel Lagarde, Christian Wolfrum	
11.00 a.m.	Effects of Dietary CLA on n-3 HUFA Score and N-acylethanolamides Biosynthesis in the Liver of Obese Zucker Rats P.A. Lopes, Lisboa/PT, G. Carta, E. Murru, A. Piras, Cagliari/IT, J. A. M. Prates, Lisboa/PT, S. Banni, Cagliari/IT	
11.20 a.m.	Potential Anti-inflammatory and Neuroprotective effect of Docosahexaenoic Acid and Bioactive Lipid Mediators in SARS-CoV-2 Neuroinvasion M. Hachem, Abu Dhabi/AE	
11.40 a.m.	Exogenous Fatty Acids Modulate ER Lipid Composition and Metabolism in Breast Cancer Cells P.A. Corsetto, Milan/IT, G. Montorfano, S. Zava, S. Borghi, I. Colombo, A.M. Rizzo, Milan/IT	
12.00 p.m.	Targeting Oxidative Stress in Brain Aging. Effects of Increasing DHA Intake F. Moreno, Vigo/ES, L. Mendez, M.J. Gonzalez, S. Lois, Vigo/ES, B. Miralles, M. Romeu, R. Nogues, Reus/ES, S. Ramos-Romero, J.L. Torres, Barcelona/ES, I. Medina, Vigo/ES	
12.20 p.m.	Changes in Free Fatty Acid Profile and Antioxidation Activity in the Liver and Brain of Mice recieving Nanolipid Complexes N. Palmina, Moscow/RU, T.A Misharina, N.I. Krikunova, N.N. Sazhina, A.S. Antipova, E.I. Martirosova, M.G. Semenova, Moscow/RU	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Lipid Oxidation: Prevention of Oxidation by Antioxidants Meeting room 1	
	Chairs: Fatima Paiva Martins, Karin Schwarz	
01.40 p.m	Caffeic Acid Phenolipids in the Protection of Cell Membranes from Oxidative Injuries F. Paiva-Martins, Porto/PT, M. Costa, R. Lopes, M. Ferreira, P. Gameiro, S. Fernandes, C. Catarino, A Santos-Silva, Porto/PT	
02.00 p.m.	Bioinformatically Predicted Antioxidant Peptides Derived from Plant, Microbial, and Marine Protein Sources: Effects on the Oxidative Stability of Low Fat Emulsion at pH 4 and Mayonnaise B. Yesiltas, Kgs. Lyngby/DK, E. Varona Sánchez, Barcelona/ES, P. García-Moreno, Granada/ES, T. Hegelund Olsen, P. Marcatili, Kgs. Lyngby/DK, S. Gregersen, Aalborg/DK, E. Bech Hansen, C. Jacobsen, Kgs. Lyngby/DK	
02.20 p.m.	New Method for Investigating the Influence of Antioxidants on Food Products C. Edinger, Blankenfelde-Mahlow/DE	
02.40 p.m.	Savoury Snacks: How to Minimize Lipid Oxidation and Extend their Shelf Life with Naturally Derived Food Additives? H. Lu, Suffolk/GB	
03.00 p.m.	Effects of Heating and <i>in vitro</i> Digestion Phases on the Oxidative Stability and Antioxidant Activity of Olive Oil Y. Bao, Vienna/AT, M. Strauss, M. Pignitter, Vienna/AT	
03.20 p.m.	Coffee Break	
	Contaminants Meeting room 1	
	Chairs: Karel Hrncirik, Klaus Schurz	
03.50 p.m.	KEYNOTE LECTURE Mitigation of Mineral Oil Compounds in Edible Oils and Fats L. Brühl, Detmold/DE, Ch. Albert, Detmold/DE, G. Rühl, Braunschweig/DE, D. Koltermann, M. Kießling, Quakenbrück/DE	
04.30 p.m.	Software Approach to Improve Tracing and Evaluation of MOSH and MOAH Contaminations in Food Supply Chains based on LC-GC-FID A. Klingberg, Teldau/DE, C. Albert, C. Läubrich, Bad Schwartau/DE, L. Richter, Fellbach/DE, L. Brühl, Detmold/DE	
04.50 p.m.	Analysis of MCPD and Glycidyl Esters in Processed Foods: Current Research at the U.S. Food and Drug Administration J. Beekman, College Park/US, S. Popol, S. MacMahon, College Park/US	
05.10 p.m.	Monitoring of Chlorinated Paraffin in Oils and the first Explanation for their Degradation J. Scholl, Berlin/DE, W. Vetter, Stuttgart/DE, J. Biewald, A. Mattulat, Berlin/DE	
05.30 p.m.	Euro Fed Lipid General Assembly – All Euro Fed Lipid Members are cordially invited to attend.	

	SCI Young Scientist Award / DGF Normann Medal Award Meeting room 1	
	Chairs: Markus Dierker, Bertrand Matthäus, Kevin W. Smith	
09.30 a.m.	SCI YOUNG SCIENTIST AWARD Adipose Tissue Inflammation in Human Obesity and Response to Chronic Marine Omega3 Fatty Acid Supplementation: The BIOCLAIMS Study at the University of Southampton H. Fisk, Southampton/GB, R. Ayres, C. Childs, Southampton/GB, O. Kuda, J. Kopecky, Prague/CZ, E. Antoun, K. Lillycrop, P.C. Calder, Southampton/GB	
09.50 a.m.	DGF NORMANN MEDAL LECTURE Minimizing Waste of Foods Rich in Omega-3 Fatty Acids by Preventing Lipid Oxidation C. Jacobsen, National Food Institute, Kgs. Lyngby/DK	
10.30 a.m.	Coffee Break	
	Plant Lipids and Vegetable Oils: Meeting room 2 Plants Lipids – From Analysis to Application	
	Chair: Yonghau Li	
11.00 a.m.	Lipid Metabolism in Microalgae in Response to a changing Environment Y. Li-Beisson, St Paul lez Durance/FR	
11.20 a.m.	Investigation of a High-oleic-acid Mutant in Brassica napus based on the whole-genome Resequencing and Transcriptome Sequencing Y. Shan, Zhen Jiang/CN, R. Geng, XN. He, W.J. Chen, X.L. Tan, Zhen Jiang/CN	
11.40 a.m.	Extraction of Oils Seeds and Production the Bio-soaps of the Carthamus tinctorius L from different Origins (Algerian, Moroccan, Yemeni) F. Tissouras, Mostaganem/DZ, F. Belarbi –Chibani, A. Rebouhi, M. Kaced, Tiaret/DZ, L. Zahaf, H. Meftah, A. Bouzide, S. Bouhamri, Mostaganem/DZ	
12.00 p.m.	Efficacy of Bioactive Components of Bottle Gourd Oilseed Extracts on the Antimicrobial Activity and Toxigenic Fungi A.G. Abdel-Razek, Cairo/EG, Ahmed N. Badr, Cairo/EG	
12.20 p.m.	The Effect of Microwave Roasting on Compositional Characteristics of Cold-Pressed Fig Seed Oil A. Yıldırım Vardin, Aydın/TR, D. Deniz Şirinyıldız, A. Yorulmaz, Aydın/TR	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Plant Lipids and Vegetable Oils: Meeting room 2 Plant Lipids – Plant Lipidomics	
	Plant Lipids and Vegetable Oils: Plant Lipids - Plant Lipidomics Chair: Ludger Brühl Meeting room 2	
01.40 p.m.	Plant Lipids - Plant Lipidomics	
01.40 p.m. 02.00 p.m.	Plant Lipids - Plant Lipidomics Chair: Ludger Brühl Fatty Acid Profile Discriminated Varietis of Triticum Turgidum Subspecies (dicoccon, turanicum and durum)	
	Chair: Ludger Brühl Fatty Acid Profile Discriminated Varietis of Triticum Turgidum Subspecies (dicoccon, turanicum and durum) R. Foligni, Ancona/IT, M. Mozzon, M. Pasquini, A. Merletti, C. Mannozzi, S. Tavoletti, Ancona/IT Plant Lipid Metabolism in Response to Phytophthora sojae Infection and Colonization in Soybean (Glycine max) Cultivars O. Adigun, St. John's/CA, T. Pham, Corner Brook/CA, D. Grapov, Colfax/US, M. Nadeem, Corner Brook/CA,	
02.00 p.m.	Chair: Ludger Brühl Fatty Acid Profile Discriminated Varietis of Triticum Turgidum Subspecies (dicoccon, turanicum and durum) R. Foligni, Ancona/IT, M. Mozzon, M. Pasquini, A. Merletti, C. Mannozzi, S. Tavoletti, Ancona/IT Plant Lipid Metabolism in Response to Phytophthora sojae Infection and Colonization in Soybean (Glycine max) Cultivars O. Adigun, St. John's/CA, T. Pham, Corner Brook/CA, D. Grapov, Colfax/US, M. Nadeem, Corner Brook/CA, L. Jewell, St. John's/CA, M. Cheema, R. Thomas, Corner Brook/CA Oxidative Stress Biomarkers from Date Palm Fruit and By-products: Five different Varieties Grown in Two different Locations as Potential Sources O. Ahmed, Montpellier/FR, C. Vigor, Montpellier/FR, S. Sedraoui, Sousse/TN, B. Zhou, G. Reversat, A. Rocher,	
02.00 p.m. 02.20 p.m.	Chair: Ludger Brühl Fatty Acid Profile Discriminated Varietis of Triticum Turgidum Subspecies (dicoccon, turanicum and durum) R. Foligni, Ancona/IT, M. Mozzon, M. Pasquini, A. Merletti, C. Mannozzi, S. Tavoletti, Ancona/IT Plant Lipid Metabolism in Response to Phytophthora sojae Infection and Colonization in Soybean (Glycine max) Cultivars O. Adigun, St. John's/CA, T. Pham, Corner Brook/CA, D. Grapov, Colfax/US, M. Nadeem, Corner Brook/CA, L. Jewell, St. John's/CA, M. Cheema, R. Thomas, Corner Brook/CA Oxidative Stress Biomarkers from Date Palm Fruit and By-products: Five different Varieties Grown in Two different Locations as Potential Sources O. Ahmed, Montpellier/FR, C. Vigor, Montpellier/FR, S. Sedraoui, Sousse/TN, B. Zhou, G. Reversat, A. Rocher, V. Bultel-Poncé, A. Guy, Montpellier/FR, S. Selim, Al-Jouf/SA, J-M. Galano, T. Durand, C. Oger, Montpellier/FR Genes Involved in the Sunflower Seed Wax Ester Synthesis	
02.00 p.m. 02.20 p.m. 02.40 p.m.	Chair: Ludger Brühl Fatty Acid Profile Discriminated Varietis of Triticum Turgidum Subspecies (dicoccon, turanicum and durum) R. Foligni, Ancona/IT, M. Mozzon, M. Pasquini, A. Merletti, C. Mannozzi, S. Tavoletti, Ancona/IT Plant Lipid Metabolism in Response to Phytophthora sojae Infection and Colonization in Soybean (Glycine max) Cultivars O. Adigun, St. John's/CA, T. Pham, Corner Brook/CA, D. Grapov, Colfax/US, M. Nadeem, Corner Brook/CA, L. Jewell, St. John's/CA, M. Cheema, R. Thomas, Corner Brook/CA Oxidative Stress Biomarkers from Date Palm Fruit and By-products: Five different Varieties Grown in Two different Locations as Potential Sources O. Ahmed, Montpellier/FR, C. Vigor, Montpellier/FR, S. Sedraoui, Sousse/TN, B. Zhou, G. Reversat, A. Rocher, V. Bultel-Poncé, A. Guy, Montpellier/FR, S. Selim, Al-Jouf/SA, J-M. Galano, T. Durand, C. Oger, Montpellier/FR Genes Involved in the Sunflower Seed Wax Ester Synthesis C. De Andrés-Gil, Sevilla/ES, M. Venegas-Calerón, A.J. Moreno-Pérez, E. Martínez-Force, J.J. Salas, Sevilla/ES Investigation of High Alpha-linolenic Acid Mutant in Brassica napus	
02.00 p.m. 02.20 p.m. 02.40 p.m. 03.00 p.m.	Chair: Ludger Brühl Fatty Acid Profile Discriminated Varietis of Triticum Turgidum Subspecies (dicoccon, turanicum and durum) R. Foligni, Ancona/IT, M. Mozzon, M. Pasquini, A. Merletti, C. Mannozzi, S. Tavoletti, Ancona/IT Plant Lipid Metabolism in Response to Phytophthora sojae Infection and Colonization in Soybean (Glycine max) Cultivars O. Adigun, St. John's/CA, T. Pham, Corner Brook/CA, D. Grapov, Colfax/US, M. Nadeem, Corner Brook/CA, L. Jewell, St. John's/CA, M. Cheema, R. Thomas, Corner Brook/CA Oxidative Stress Biomarkers from Date Palm Fruit and By-products: Five different Varieties Grown in Two different Locations as Potential Sources O. Ahmed, Montpellier/FR, C. Vigor, Montpellier/FR, S. Sedraoui, Sousse/TN, B. Zhou, G. Reversat, A. Rocher, V. Bultel-Poncé, A. Guy, Montpellier/FR, S. Selim, Al-Jouf/SA, J-M. Galano, T. Durand, C. Oger, Montpellier/FR Genes Involved in the Sunflower Seed Wax Ester Synthesis C. De Andrés-Gil, Sevilla/ES, M. Venegas-Calerón, A.J. Moreno-Pérez, E. Martínez-Force, J.J. Salas, Sevilla/ES Investigation of High Alpha-Iinolenic Acid Mutant in Brassica napus L. Li, Zhen Jiang/CN, Y. Shan, Zhen Jiang/CN, W. Chen, Yangling/CN, X. Tan, Zhen Jiang/CN	
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	SCI Young Scientist Award / DGF Normann Medal Award Meeting room 1	
	Chairs: Markus Dierker, Bertrand Matthäus, Kevin W. Smith	
09.30 a.m.	SCI YOUNG SCIENTIST AWARD Adipose Tissue Inflammation in Human Obesity and Response to Chronic Marine Omega3 Fatty Acid Supplementation: The BIOCLAIMS Study at the University of Southampton H. Fisk, Southampton/GB, R. Ayres, C. Childs, Southampton/GB, O. Kuda, J. Kopecky, Prague/CZ, E. Antoun, K. Lillycrop, P.C. Calder, Southampton/GB	
09.50 a.m.	DGF NORMANN MEDAL LECTURE Minimizing Waste of Foods Rich in Omega-3 Fatty Acids by Preventing Lipid Oxidation C. Jacobsen, National Food Institute, Kgs. Lyngby/DK	
10.30 a.m.		
	Lipid Oxidation: Impact of Processing on Lipid Oxidation Meeting room 3	
	Chairs: Fatima Paiva Martins, Karin Schwarz	
11.00 a.m.	EUROPEAN YOUNG LIPID SCIENTIST AWARD LECTURE Examining the role of Endogenous Factors for Lipid Oxidation in Muscle Food Systems and Development of New Cost-effective Stabilization Technologies H. Wu, Göteborg/SE	
11.20 a.m.	Examining the Impact of Non-thermal Plasma on Lipid Model Systems D. Liu, Gent/BE, A. Nikiforov, N. De Geyter, B. De Meulenaer, Gent/BE	
11.40 a.m.	Lipid Oxidation in Protein Enriched Products from Cod- Salmon and Herring Backbones during Ice and Frozen Storage	
12.00 p.m.	H. Wu, Göteborg/SE, M. Abdollahi, Göteborg/SE, I. Undeland, Göteborg/SE Assessment of Lipid Oxidation in Sardine (sardina pilchardus) Treated by Plasma–Activated Water (paw) M. Mozzon, Append/IT L. Ismaial, A. Nartea, C. Mannozzi, P. Foligni, Append/IT	
12.20 p.m.	M. Mozzon, Ancona/IT, L. Ismaiel, A. Nartea, C. Mannozzi, R. Foligni, Ancona/IT Enzymatic Degradation of <i>Chlorella vulgaris</i> Cell Wall Improved Protein Bioaccessibility while Preserving Lipid Oxidative Stability G. Canelli, Zurich/CH, I. Kuster, B. Maude Hauser, Zurich/CH, P. Murciano Martínez, Z. Rohfritsch, F. Dionisi,	
	Lausanne/CH, C.J. Bolten, Singen/DE, L. Neutsch, Wädenswil/CH, A. Mathys, Zurich/CH	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Olive Oil and Authenticity – Quality and Technology Aspects Meeting room 3 Chairs: Diego Luis Garcia Gonzalez, Ina Willenberg	
01.40 p.m.	Data Validity within the Sensory Evaluation of Extra Virgin Olive Oil - Do different test locations have a relevant impact?	
0 o p	A. Bongartz, Waedenswil/CH, M. Popp, Waedenswil/CH, R. Retsch, Nuremberg/DE	
02.00 p.m.	Turbidity of Extra Virgin Olive Oil: Characterization and its Effect on Product Quality and During Processing and Distribution C Breschi, Florence/IT, L. Guerrini, L. Calamai, P. Masella, A. Parenti, B. Zanoni, Florence/IT	
02.20 p.m.	Impact of Coadjuvants on Enzymes Activity during VOO Extraction G. Squeo, Bari/IT, R. Silletti, G. Difonzo, C. Summo, C. Crecchio, F. Caponio, Bari/IT	
02.40 p.m.	Effect of Ripening on Quality Attributes and Volitile Profile of Extra Virgin Olive Oils from 'Megaritiki' and Chondrolia Chalkidikis' Greek Cultivars V. Papoti, Thessaloniki/GR, K. Moustaka, D. Marlis, T. Adamidis, K. Zinoviadou, Thessaloniki/GR	
03.00 p.m.	Effect of Olive Leaf Incorporation during the Industrial Extraction of cv. Arbequina Olive Oils on their Quality and Bioactive Composition I. Marx, Bragança/PT, N. Rodrigues, J. Pereira, A. Peres, Bragança/PT, A. Veloso, Coimbra/PT, R. Cruz, S. Casal, Porto/PT	
03.20 p.m.	Coffee Break	
	Olive Oil and Authenticity - Spectroscopy in the Analysis of Olive Oil Meeting room 3	
	Chairs: Diego Luis Garcia Gonzalez, Ina Willenberg	
03.50 p.m.	Green and Fast Determination of Ethyl Ester Content in Olive Oil by IR Spectroscopy C. Alamprese, Milan/IT, S. Grassi, Milan/IT, G. Squeo, F. Caponio, Bari/IT	
04.10 p.m.	Fourier-Transform near Infrared Spectrocopy (FT-NIR) with Multivariate Techniques for Virgin Olive Oil Analysis T.M. Keceli, Adana/TR, A.A. Mecit, Adana/TR, A. Kiritsakis, Thessaloniki/GR	
04.30 p.m.	Detection of Adulterated Olive Oil by Near Infrared Spectroscopy Coupled to Multivarriate Statistics C. Gertz, Hagen/DE, I. Willenberg, Detmold/DE	
04.50 p.m.	Stability Assessment of Virgin Olive Oils by Mesh Cell-FTIR Spectroscopy: Spectral changes in a Real-time Storage Experiment A. Lobo-Prieto, Seville/ES, N. Tena, R. Aparicio-Ruiz, M.T. Morales, D.L. García-González, Seville/ES	
05.10 p.m.	¹ H-NMR Spectral Fingerprints of Extra Virgin Olive Oils: Confirmation of the Identity and Homogeneity within Commercial Lots O. Winkelmann, Hamburg/DE, T. Kuechler, Hamburg/DE	
05.30 p.m.	Euro Fed Lipid General Assembly - All Euro Fed Lipid Members are cordially invited to attend.	

	SCI Young Scientist Award / DGF Normann Medal Award Meeting	room 1
	Chairs: Markus Dierker, Bertrand Matthäus, Kevin W. Smith	
09.30 a.m.	SCI YOUNG SCIENTIST AWARD Adipose Tissue Inflammation in Human Obesity and Response to Chronic Marine Omega3 Fatty Acid Supplementation: The BIOCLAIMS Study at the University of Southampton H. Fisk, Southampton/GB, R. Ayres, C. Childs, Southampton/GB, O. Kuda, J. Kopecky, Prague/CZ, E. Antoun, K. Lillycrop, P.C. Calder, Southampton/GB	
09.50 a.m.	DGF NORMANN MEDAL LECTURE Minimizing Waste of Foods Rich in Omega-3 Fatty Acids by Preventing Lipid Oxidation C. Jacobsen, National Food Institute, Kgs. Lyngby/DK	
10.30 a.m.	n. Coffee Break	
	Physical Chemistry Meeting	room 4
	Chairs: Eckhard Flöter, Imogen Foubert	
11.00 a.m.	KEYNOTE LECTURE Nanostructure of Cocoa Butter in the Molten, Liquid Crystalline and Solid State M. Rappolt, Leeds/GB	
11.40 a.m.	Modeling Triglyceride Pure Component Properties by a Configurational Approach J. Seilert, Berlin/DE, E. Flöter, Berlin/DE	
12.00 p.m.	Mixing Phase Behavior of Trilaurin and oleic-rich Triacylglycerols Forming Molecular Compound J. Macridachis, Barcelona/ES, L. Bayés-García, T. Calvet, Barcelona/E	
12.20 p.m.	Monitoring the Crystallization of <i>Trans</i> -free Cocoa Butter Replacers in the Cooling Tunnel by differential Scanning Calorimetry M. Bootello, Wormerveer/NL, J. Werleman, P. Garcia-Macias, Wormerveer/NL	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Physical Chemistry Meeting	room 4
	Chairs: Eckhard Flöter, Imogen Foubert	
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01.40 p.m.		
01.40 p.m. 02.00 p.m.	The Influence of Minor Oil Components on Wax Oleogels M. Scharfe, Berlin/DE, <u>E. Flöter, Berlin/DE</u>	
·	The Influence of Minor Oil Components on Wax Oleogels M. Scharfe, Berlin/DE, E. Flöter, Berlin/DE On the Effect of Oil Type and Wax Composition on Oleogel Properties T. Wettlaufer, Berlin/DE, E. Flöter, Berlin/DE	
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	SFEL Chevreul Medal Award Meeting room 1	
	Chair: Philippe Guesnet	
09.30 a.m.	SFEL CHEVREUL MEDAL LECTURE Analysis and Application of Microbial Functions Expanding Lipid Science J. Ogawa, Kyoto/JP	
10.30 a.m.	Coffee Break	
	Health and Nutrition Meeting room 1	
	Chairs: Michel Lagarde, Christian Wolfrum	
11.00 a.m.	KEYNOTE LECTURE Adipose Tissue as an Interface between our Body and the Environment M. Blueher, Leipzig/DE	
11.40 a.m.	Novel Very-Long-Chain Polyunsaturated Fatty Acids Uptake and Tissue Distribution by Dietary Supplementation M. Torrissen, Oslo/NO, H. Svensen, I. Stoknes, Ålesund/NO, A. Nilsson, TK. Østbye, G. Berge, E. Ytteborg, B. Ruyter, Oslo/NO	
12.00 p.m.	Post-prandial Triglyceride-rich Lipoproteins from Type 2 Diabetic Patients Activate Platelets Regardless of the Fat Source in the Meal C. Calzada, Pierre-Bénite/FR, M.M. Boulet, Pierre-Bénite/FR, M. Di Filippo, P. Moulin, D. Cheillan, Bron/FR, M-C. Michalski, Pierre-Bénite/FR	
12.20 p.m.	The Effect of Omega-3 Dosage on Interventional Trials with Cardiovascular Outcomes A. Bernasconi, Salt Lake City/US	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Exhibitor Presentations Meeting room 1	
	Chair: Carl Arevang	
01.40 p.m.	Novoyzmes, Kgs. Lyngby/DK	
02.00 p.m.	Axel Semrau GmbH & Co. KG, Sprockhövel/DE	
02.20 p.m.	Leco Instrumente GmbH, Kirchheim/DE	
02.40 p.m.	Solex Thermal Science Inc., Prague/CZ	
03.10 p.m.	ТВА	
03.20 p.m.	Closing and Announcement of the 19th Euro Fed Lipid Congress and Expo Markus Dierker, Bertrand Matthäus, Karin Schwarz	

	SFEL Chevreul Medal Award Meeting room 1	
	Chair: Philippe Guesnet	
09.30 a.m.	SFEL CHEVREUL MEDAL LECTURE Analysis and Application of Microbial Functions Expanding Lipid Science J. Ogawa, Kyoto/JP	
10.30 a.m.	n. Coffee Break	
	Dairy and Animal Lipids Meeting room 2	
	Chair: Noelia Aldai	
11.00 a.m.	Refining By-products Rich in Free Fatty Acids: Are they the "ugly duckling" Among Feeding Fats for Monogastric Animals? A. Tres, Barcelona/ES, E. Varona, P. Albendea, S. Vichi, M. Rafecas, Barcelona/ES, R. Sala, A.C. Barroeta, Bellaterra/ES, F. Guardiola, Barcelona/ES	
11.40 a.m.	Dietary Supplementation with EPA-rich Microalgae: Lamb Muscle and Subcutaneous Fat Lipidome S.P. Alves, Lisboa/PT, B. Fuchs, Dummerstorf/DE, A.C.M. Vitor, Lisboa/PT, A. Francisco, J. Santos-Silva, Santarem/PT, R.J.B. Bessa, Lisboa/PT, D. Dannenberger, Dummerstorf/DE	
12.00 p.m.	Dietary Hazelnut Skin Improves Lipid Oxidative Stability of Lamb Meat A. Natalello, Catania/IT, A. Priolo, Catania/IT, B. Valenti, Perugia/IT, R. Menci, Catania/IT, M. Pauselli, Perugia/IT, G. Luciano, Catania/IT	
12.20 p.m.	Influence of Rosemary, Clove and Propolis on the Oxidation Stability of Lard Measured by an Accelerated Oxidation Test H. Stoffers, Bern/CH, M. Freivogel, Zollikofen/CH, R. Blase, Bern/CH, B. Früh, Frick/CH	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Dairy and Animal Lipids Meeting room 2	
	Chair: Noelia Aldai	
01.40 p.m.	Effect of Feeding Olive Pomace Oil and Olive Pomace Acid Oil on Lipid Composition and Oxidative Stability of Pork P. Albendea, Santa Coloma de Gramenet (Barcelona)/ES, A. Tres, E. Varona, Santa Coloma de Gramenet/ES, G. Verge-Merida, D. Solà-Oriol, Bellaterra/ES, M. Verdú, M. Balart, Guissona/ES, S. Vichi, Santa Coloma de Gramenet/ES, M. Rafecas, Barcelona/ES, F. Guardiola, Santa Coloma de Gramenet/ES	
02.00 p.m.	Implications of Feeding Hydrogenated Palm Oil to Dairy Cows on Milk Triacylglycerol Composition and Structure, and its Effect on Milk Solid Fat Content S. Pacheco-Pappenheim, Wageningen/NL, S. Yener, K. Nichols, J. Dijkstra, K. Hettinga, H.J.F Valenberg, Wageningen/NL	
02.20 p.m.	Intensively Finishing Cattle Supplemented with Extruded Linseeds Presents an Increased Variability of the Biohydrogenation Intermediates in Meat R.J.B. Bessa, Lisboa/PT, C.M. Alfaia, J.A.M. Prates, S.P. Alves, Lisboa/PT	
02.40 p.m.	Correlation between Milk Fat Components and Polymorphism N. Arita-Merino, Wageningen/NL, H. van Valenberg, E. Scholten, Wageningen/NL	
03.00 p.m.	Towards Tailored Crystallization of Buffalo Milk Fat Y. Pratama, Leeds/GB, E. Simone, M. Rappolt, Leeds/GB	
03.20 p.m.	m. Closing and Announcement of the 19th Euro Fed Lipid Congress and Expo Markus Dierker, Bertrand Matthäus, Karin Schwarz	

	SFEL Chevreul Medal Award Meeting room 1	
	Chair: Philippe Guesnet	
09.30 a.m.	SFEL CHEVREUL MEDAL LECTURE Analysis and Application of Microbial Functions Expanding Lipid Science J. Ogawa, Kyoto/JP	
10.30 a.m.	Coffee Break	
	Lipidomics Meeting room 3	
	Chairs: Ruth Birner-Grünberger, Anna Nicolaou	
11.00 a.m.	KEYNOTE LECTURE Shotgun Lipidomics of Tissue Biopsies A. Shevchenko, MPI of Moleculer Cell Biology and Genetics, DE	
11.40 a.m.	Lipidomics View on Human Obesity M. Fedorova, Leipzig/DE	
12.00 p.m.	Lipid Molecular Timeline Profiling Reveals Diurnal Crosstalk between the Liver and Circulation C. Ejsing, Odense/DK	
12.20 p.m.	Acyl Editing of Phosphatidic Acid and Phosphatidylethanolamine via Acyl-CoA:lysophospholipid a cyltransferases S. Klińska, Gdańsk/PL, K. Jasieniecka-Gazarkiewicz, K. Demski, A. Banaś, Gdańsk/PL	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Lipidomics Meeting room 3	
	Chairs: Ruth Birner-Grünberger, Anna Nicolaou	
01.40 p.m.	Application of Lipidomics to Better Understand Plant Acclimation to Environmental Stress in Boreal Ecosystems or Northern Climates T. Raymond, St Johns/CA, A. Sey, M. Cheema, L. Galagedara, M. Nadeem, Corner Brook/CA	
02.00 p.m.	LC-MSn Based Glycolipidomics to Monitor Gangliosides and their Potential as Cell Differentiation Markers in Human Mesenchymal Stem Cells E. Rampler, Vienna/AT, K. Hohewallner, T. Nina, P. Lisa, Vienna/AT, N. Thomas, Munich/DE, K. Cornelia, K. Gunda, Vienna/AT, H. Jürgen, Graz/AT, Egger Dominik, Vienna/AT	
02.20 p.m.	Lipid Profile of Erythrocyte Membranes as a Novel Inflammatory Biomarker to Distinguish Metabolically Healthy Obesity in Children for more Precise Nutritional Recommendations S. Arranz, Derio/ES, J. Jauregibeitia, K. Portune, Derio/ES, I. Rica, Barakaldo/ES, I. Tueros, Derio/ES, O. Velasco, G. Grau, L. Castaño, Barakaldo/ES, F. Di Nolfo, C. Ferreri, Bologna/IT	
02.40 p.m.	Hepatic Response to Fatty Acid Treatment: A Study of Lipotoxicity, rescue and <i>Trans</i> Fatty Acids J. Gindlhuber, Graz/AT, L. Liesinger, M. Schinagl, Graz/AT, M. Schittmayer, R. Birner-Gruenberger, Wien/AT	
03.00 p.m.	The Phospholipid Profile of Melanoma-derived Exosomes does not Appear to Influence Cell Osteotropic Propensity P. Lopalco, Bari/IT, P. Tanzarella, F. Mannavola, M. Tucci, F. Silvestris, A. Corcelli, S. Lobasso, Bari/IT	
03.20 p.m.	Closing and Announcement of the 19th Euro Fed Lipid Congress and Expo Markus Dierker, Bertrand Matthäus, Karin Schwarz	

	SFEL Chevreul Medal Award	Meeting room 1
	Chair: Philippe Guesnet	
09.30 a.m.	SFEL CHEVREUL MEDAL LECTURE Analysis and Application of Microbial Functions Expanding Lipid Science J. Ogawa, Kyoto/JP	
10.30 a.m.	Coffee Break	
	Contaminants	Meeting room 4
	Chairs: Karel Hrncirik, Klaus Schurz	
11.00 a.m.	KEYNOTE LECTURE Mineral Oil Contamination in Food: A Comprehensive Journey beyond the Hump G. Purcaro, Gembloux/BE	
11.40 a.m.	Current Advances in Automated Analysis of MOSH/MOAH for Vegetable Oils and Fats M. Nestola, Sprockhövel/DE	
12.00 p.m.	Rapid and High-Sensitivity Determination of Mineral Oil Aromatic Hydrocarbons (MOAH) in Extra Virgin Olive Oil (EVOO): Method Validation and First Results L. Menegoz Ursol, Udine/IT, C. Conchione, A. Srbinovska, S. Moret, Udine/IT	
12.20 p.m.	Quantification and Characterization of Mineral Oil in Fish Feed by LC-GC-FID and LC-GC×GC-TOFMS/FID G. Bauwens, Gembloux/BE, G. Purcaro, Gembloux/BE, S. Moret, C. Conchione, Udine/IT	
12.40 p.m.	Table Top Exhibition – Lunch Break	
	Chairs: Markus Dierker, Bertrand Matthäus	
01.40 p.m. 03.20 p.m.	Flash Poster Presentations	Meeting room 4
03.20 p.m.	Closing and Announcement of the 19th Euro Fed Lipid Congress and Expo Markus Dierker, Bertrand Matthäus, Karin Schwarz	

OTHER CONGRESS EVENTS

Monday, 18 October 2021 12:45 p.m.

Euro Fed Lipid Board Meeting

by invitation only, (zoom meeting)

Wednesday, 20 October 2021

5:30 p.m.

Euro Fed Lipid General Assembly

Euro Fed Lipid members are cordially invited to participate. (zoom meeting)

Friday, 22 October 2021 9:00 a.m. – 6:00 p.m.



9th Virtual Panhellenic Conference of the Greek Lipid Forum "Current Trends in the Field of Lipids"

We are pleased to announce that the 9th Panhellenic Conference of Greek Lipid Forum ·current Trends in Lipids Field" will take place virtually on 22 of October 2021 in parallel with the 18th EuroFed Lipid Congress and Expo.

The aim of the Conference is to bring together researchers from the Academia, Research Institutions and the Food Industry in a forum of sharing knowledge in the field of lipids. The language of the conference is English.

Registration is complimentary.

"Attendants of the 18th EFL Congress can attend the Greek Lipid Forum Conference by using the same connection credentials as for the EFL Congress.

Poster Award

The best posters on display will receive the Euro Fed Lipid poster award - consisting of a one year free subscription to the European Journal of Lipid Science and Technology and 250 Euro in prize money.

The awards are sponsored by Wiley-VCH and Elsevier.



AOCS

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For more than 100 years, AOCS has promoted the science and technology of lipids in the fats and oils industry through analytical methods, proficiency testing, peer-reviewed technical publishing, and in providing venues for technical discussions and educational opportunities. Learn more at aocs.org.



Axel Semrau GmbH & Co. KG

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For almost 40 years, the medium-sized and owner-managed company Axel Semrau has been active in sales and support of special solutions for sample preparation and chromatography as well as application-optimized workstations. The focus is on efficient automation in the laboratory. Axel Semrau integrates hardware of well-known manufacturers or own hard- and software into complete solutions. Especially for food analysis, reliable systems for routine analysis have been developed, for example to determine the content of MOSH/MOAH, MCPD, FAMEs or glyphosate in food.

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Bruker Optics provides FT-NIR solutions for edible oil producers as well as for processors. To optimize the oil pressing process, the oil seeds as well as the intermediate products, like expellers or extracts can be analyzed for oil and moisture content. Oilseed breeders can obtain valuable additional information like Fatty Acid Profiles, Erucic acid as well as the Glucosinolate content.

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We at Clariant pride ourselves of having ranges of product solutions in the industry today and our continued investment in developing new solutions to purify edible oils or biofuels for the future.



Desmet Ballestra Oils & Fats Division

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Oils & Fats, Oleochemicals Based on Belgium's De Smet know-how as the world specialist in oilseed and edible oil processing plants, Desmet Ballestra Oils & Fats Division delivers tailor-made engineering and procurement services covering each step of the industry, from oilseed, preparation and extraction to oil processing plants including refining and fat modification processes, as well as oleochemicals and biodiesel technologies. Desmet Ballestra Oils & Fats masters the processing of 40 raw materials, of which soybeans, sunflower seed, rapeseed, groundnuts, cottonseed and palm oil are probably the most popular. The Division has supplied small and large plants to some 1,700 oil millers in 150 countries, covering over 6.000 process sections. Leading edge Research & Development and privileged customer relationship are the key assets of Desmet Ballestra Oils & Fats, which is able to provide to the customers the best technologies through an international network of companies. With its headquarters in Brussels, Desmet Ballestra Oils & Fats is present in all major oils and fats market areas of the world through its integrated business units in Northern and Central America (USA, Mexico), South America (Argentina, Brazil, Colombia), Asia & Far East (PR China, Singapore, Malaysia), India and Europe (Belgium, Turkey, Russia, Spain). Desmet Ballestra Oils & Fats is held in high repute all over the world, and its name stands for experience, innovation, first class project management, customer service and environmental protection policy.



Farmet a.s.

Contact: Farmet a.s. Marketing Jiřinková 276 552 03 Česká Skalice, Czech Republic

Mr. Miroslav Štauda Head of Marketing Department m.kavalek@farmet.cz

Farmet a.s., Czech company founded in 1992 is one of the world-wide leading specialist in turnkey projection of pressing shops and feed extrusion technology.

We are strong partner in the field of oilseeds pressing, vegetable oil filtration & refining, feed extrusion and feed milling.

Our product portfolio ranges from individual machines, small plants to large-capacity plants using different presses, extruders with different capacities.

Our hexane free technologies are based on own R&D, production and provide the customers the best cost-effective, economic and environmentally friendly solution.



French Oil Mill Machinery Company

www.frenchoil.com

French custom designs, manufactures and supports preparation equipment and mechanical screw presses for the extraction of vegetable oil for food and industrial uses, including biodiesel and other fuels. Our heavy duty and durable equipment has an average life span of over 50 years and operates with maximum productivity and lower processing cost per ton. For 120 years our customers have been satisfied with French's process solutions that meet and exceed industry standards of high quality crude oil and meal and oil extraction efficiencies.

In addition to machinery, French's Innovation Center development laboratory offers a wide variety of testing services utilizing pilot scale and semi-works mechanical screw presses on all types of oil bearing seeds or nuts, and other liquid-bearing solid materials. During the performance trials, French's team of experienced engineers can experiment with a variety of conditioning and shaft temperatures and moistures, press shaft arrangement configurations and more to produce higher quality oil and meal. French can apply the information obtained in the trials to design and supply custom screw presses and other processing equipment that suits each customer's specific processing needs.



Gerstel GmbH & KG

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Since 1967 GERSTEL develops and produces customer focused solutions for automated sample preparation and sample introduction accessories for GC, GC/MS, LC, and LC/MS. GERSTEL technology enhances productivity and significantly improves detection limits; e.g. automated Thermal Desorption and Pyrolysis techniques for the determination of origin and authenticity of products. GERSTEL features full applications support laboratory at headquarters and partner applications laboratories world-wide. The applications team enables GERSTEL to assist customers in automating and applying GC/MS and LC/MS analysis techniques to the solution of real-world challenges.



J. Rettenmaier & Söhne GmbH

Contact: www.jrsfiltration.com filter@jrs.de

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JRS Cellulose Adsorbents are functionalized Cellulose fibers engineered for the removal of polar contaminants such as soaps, metals, and phospholipids/gums.

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Used in conjunction with Bleaching Earth, Cellulose Adsorbents improve filter performance significantly while optimizing Bleaching Earth dosing to an absolute minimum.

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LAIX Technologies UG

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LAIX Technologies is a German producer of special laboratory equipment, in particular of automation for the oils and fats industry and of devices for parallel synthesis in the chemical/pharmaceutical industry. Our goal is to make daily routines in the lab more easy and efficient.

From standard instruments to fully customized solutions, we offer complete systems including hardware, software and accessories. In all cases, our solutions blend experience with the most up-to-date technology to create an easy-to-use system that will be an asset to your research, development, QA or production. Our customers operate in various industrial sectors including food, pharmaceuticals, chemicals and biofuels.

We offer a complete service from planning to operation. Our expertise allows us to support you with consulting, design, production, software and service.

We are specialized on auto samplers and temperature dry baths. Highlights of our portfolio are the established SFC-Automation and our automated FatLab. All products comply with international standard methods by AOCS and IUPAC.



Larodan AB

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Larodan makes a comprehensive range of research grade lipids for use as analytical standards with customers all over the world. Our products include all sorts of lipids, from simple fatty acids and methyl esters to complex acylglycerols, sphingolipids and phospholipids. Our customers are involved in academic research or industrial processes in a number of fields including agro, food, nutrition, cosmetics, biofuels, biotechnology, pharmaceuticals. Our facilities are located at the Karolinska Institute in Stockholm, Sweden.

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LECO INSTRUMENTE GMBH

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Maxfry GmbH

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Since 2002, the family-owned company Maxfry® GmbH from Hagen (NRW) has been active in the market as an added value specialist for vegetable oils and fats. Maxfry develops, manufactures and distributes performance-enhancing ingredients for vegetable oils and fats used for deep frying operations in industry and gastronomy. The focus of the improvements on oils and fats is on the one hand the thermal-oxidative stability in the production process and on the other hand the general performance, e.g. in terms of energy/heat transfer.

The philosophy of Maxfry is the exclusive use of plant-based raw materials and the renunciation of genetically modified or synthetic antioxidant ingredients. In addition, Maxfry GmbH also offers analysis services using NIR spectrometry. The offer ranges from the determination of important key parameters for deep-frying fats and oils to more sophisticated and complex tasks like the identification, authentication and comprehensive evaluation of olive oils.



Merck KGaA

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Oil-Dri Corporation of America

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European Journal of Lipid Science and Technology

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Wiley-VCH, founded in 1921 as Verlag Chemie, is celebrating its 100th anniversary this year. The publishing program covers many areas of the natural sciences - such as chemistry, materials and life sciences, physics, medicine and technology - as well as the field of business. For 25 years now, we have been part of the global publishing group John Wiley & Sons, Inc. based in Hoboken, New Jersey, USA. Founded in 1807, Wiley has served as a key communicator of information and knowledge for more than 200 years.

Cold-pressed Camelina Cake as a Source of Essential Fatty Acids in Animal Nutrition

<u>Danka Dragojlović</u>¹, Slađana Rakita¹, Viktor Stojkov¹, Strahinja Vidosavljević¹, Olivera Đuragić¹, Ana Marjanović Jeromela², Sandra Cvejić²,

¹Institute of Food Technology, University of Novi Sad, 21000 Novi Sad, Serbia, ²Institute of Field and Vegetable Crops, 21000 Novi Sad, Serbia

The demand for alternative sources of energy and protein in animal nutrition has notably increased in recent decades. Camelina seed and its by-products from oil manufacturing have gained much attention due to the high nutritional value. Therefore, the present paper focuses on determination of fatty acid content in the cold-pressed camelina cake and thus evaluation of its potential as a valuable source of essential fatty acids in animal feeding. For that purpose, camelina cakes were obtained as a by-product from the coldpressed oil production. Two genotypes of camelina seed (Camelina sativa) (NS Zlatka and NS Slatka) were used in this study. The obtained results showed that both cakes had high content of lipids, while NS Zlatka demonstrated higher lipid content (16.1%) than NS Slatka (14.8%). Both camelina cakes had similar content of saturated (SFA), monounsaturated (MUFA) and polyunsaturated fatty acids (PUFA). Among SFA, the most dominant was palmitic acid, followed by stearic, arachidic and myristic acid. Oleic acid and eicosenoic were predominant in MUFA. Eruca acid was found in camelina cakes at the amount of 3.0 and 3.3% for NS Slatka and NS Zlatka, respectively. Over half of the total fatty acids in camelina cakes were constituted of PUFA, of which the highest share were linoleic (n-6) and α-linolenic acid (n-3). The content of linoleic acid was 19.3 and 19.4% while the content of α -linolenic was 35.0 and 34.9% for NS Zlatka and NS Slatka, respectively. n-3 and n-6 fatty acids have beneficial effects on health, and therefore, the Inclusion of camelina cake into animal diet is a successful approach to fortify animal lipids with health promoting fatty acids. In conclusion, cold-pressed camelina cake has a huge potential to be included regularly as a feed ingredient rich in nutritionally essential n-3 and n-6 fatty acids.

Acknowledgement: This research was financially supported by Provincial Secretariat for Higher Education and Scientific Research of APV Vojvodina (Project no. 142-451-2297/2021-01/02), as well as by Ministry of Education, Science and Technological Development, Republic of Serbia (Project no. 451-03-9/2021-14/200222).