LIPIDS & BRAIN IV:
LIPIDS IN ALZHEIMER DISEASE

Sunday 8th to Wednesday 11th October 2017
Nancy, France

Organizing Committee
Dr Philippe Guesnet, Pr Elmira Arab-Tehrany, Dr Bernadette Delplanque,
Dr Claire Bourlieu, Dr Ali Tamayol, Pr Jean-Luc Olivier, Pr Michel Linder
The French Society for the Study of lipids (SFEL) is a non-governmental, non-profit scientific society founded in 1943. Its main objective is to engage in all activities intended to promote scientific interactions and collaborations between national and international searchers from industry and academic in the field of lipids. For this purpose, our activity is essentially directed toward organization of hot topic meetings “les Journées Chevreul” each year and participation as co-editors as well as publications providers for the bimonthly OCL journal (Oilseeds and fats, Crops and Lipids, www.ocl-journal.org/), a french peer-reviewed full Open-Access scientific journal devoted to fats and lipids.

Since 2007, the SFEL organize each 4 years an international conference held in Paris “Lipids & Brain Journées Chevreul” with the participation of several European scientific associations (2007 DGF, 2011 Norway L&B, 2015 SCI). Over a period of 3 days, “Lipids & Brain” conferences examine the latest findings in this field of research from leading researchers into both fundamental and applied research on the metabolism of FAs and PUFAs within the brain and the retina, with a focus on neural pathologies. They provided an opportunity to extend our knowledge in these fields of research and on the relationship between nutrition, FAs, lipids and central nervous system function during development and ageing. They have also honoured with the French “CHEVREUL Medal” Dr Stanley I. Rapoport (Bethesda, USA) and Pr. Nicolas G. Bazan (New Orleans, USA) and Dr Crawford (London, UK) for their pioneering research.

Lipids & Brain conferences have now become a benchmark in this field of research, the only one in Europe to date, and is backed by all international societies.

This year, only two years after the large success of the last one in 2015, we organize in Lorraine University a special Lipid and Brain IV dedicated to “Lipids in Alzheimer disease”. We will examine the latest findings in this world growing disease with the objective is to assemble the medical community and the scientists and to improve connections, discussions and exchanges between physicians, nutritionists and fundamental scientists, in an attempt to develop prevention and treatments of this human pathology. Moreover, the SFEL has decided to honour a scientist who dedicated his carrier to a very original research in this field: Pr Stephen Cunnane (Université Sherbrooke, Canada) by the French Chevreul Medal 2017.
PROGRAM LIPIDS and BRAIN IV – LIPIDS IN ALZHEIMER DISEASE

Sunday, 8 October

16h00: Registration, Posters

17h00-19h00: Welcome reception

Monday, 9 October 2017

8h00 – 9h00 Registration

Session 1: Physiopathology, Epidemiology and Drug Therapy

9h00-9h45
Bruno DUBOIS. Université Pierre et Marie Curie, Paris 06, Institut de la Mémoire et de la Maladie d’Alzheimer (IM2A) & Institut du Cerveau et de la Moelle épinière (ICM), Département de Neurologie, Hôpital de la Pitié-Salpêtrière, Paris, France.
Title: The continuum of Alzheimer disease

9h45-10h15
Jean-François DARTIGUES. Bordeaux Population Health (BPH Center) INSERM U 897. Université de Bordeaux, France.
Title: Alzheimer's Disease in the city

10h15 – 11h00     Coffee break / posters

11h00-11h30
George S. BLOOM. Department of Neuroscience, University of Virginia, Charlottesville, VA, USA.
Title: How Brain Insulin Resistance Contributes to Alzheimer’s Disease Pathogenesis

11h30-12h00
Philippe LEGRAND. Rennes, France. To be announced

12h00 14h00     LUNCH (restaurant hippodrome)

Session 2: Alzheimer Disease – Interaction with Lipid Metabolism

14h00-14h30
Mélanie PLOURDE, Research Center on Aging, Health and Social Services Centre, University Institute of Geriatrics of Sherbrooke, Sherbrooke, Canada and Department of Medicine, University of Sherbrooke, Sherbrooke, Canada.
Title: Ageing, cognitive decline, ApoE and DHA metabolism

14h30-15h00
Cristina LEGIDO-QUIGLEY. King's College London, Institute of Psychiatry, Psychology & Neuroscience, London, UK.
Title: Blood, CSF and brain metabolomics/lipidomics to study Alzheimer's Disease
15h00-15h30
Karl J.L. FERNANDES, Faculty of Pharmacy, Université Laval, Quebec City, QC G1V 0A6, Canada; CHU-Q Research Center, Quebec City, QC G1V 4G2, Canada.
Title: Abdominal brain lipid metabolism in Alzheimer

15h30 – 16h00  Coffee break / posters

16h00- 16h30
Marie-Claude POTIER. Centre National de la Recherche Scientifique UMR 7225, Institut National de la Santé et de la Recherche Médicale, U1127, Institut du Cerveau et de la Moelle, Sorbonne Universités, UPMC Univ Paris VI UMR S 1127, Paris, France.
Title: Cholesterol and ApoE in Alzheimer's disease

16h30 - 17h00
Catherine MALAPLATE-ARMAND (UR AFPA INRA USC 340, EA 3998, Équipe Biodisponibilité et Fonctionnalité des Lipides Alimentaires (BFLA), Université de Lorraine, Nancy, France. Laboratoire de Biochimie et Biologie Moléculaire, UF Oncologie Endocrinologie Neurobiologie, Hôpital Central, Centre Hospitalier Universitaire, Nancy, France).
Title: Aged-related lipid raft modifications and higher susceptibility to amyloid stress

17h00 – 17h30
Jean-Luc OLIVIER. URAFPA, équipe Calbinotox et service de Biochimie-Biologie Moléculaire, CHU de Nancy. France
Title: Potentialization of Aβ oligomer neurotoxicity by dietary arachidonic acid

Tuesday, 10 October 2017

Session 3: Impact of Omega 3 Fatty Acids and Lipid Nutrition

8h30-9h00
Nathalie BERNOUD-HUBAC. Université Lyon, INSA-Lyon, Inserm UMR 1060, Inra UMR 1397, CarMeN Laboratory, IMBL, Villeurbanne F-69621, France.
Title: Structured phospholipids: an innovative therapeutic strategy for neurological diseases

9h30-10h00
Sophie LAYE. Université de Bordeaux. UFR Pharmacie. Laboratoire NutrINeuro Nutrition et Neurobiologie Intégrée, 33076 Bordeaux, France.
Title: Polyunsaturated fatty acids and their metabolites in brain function and disease

10h00 – 10h30  Coffee break

10h30 - 11h15  Chevreul Medal: Stephen CUNNANE
(Research Center on Aging, Sherbrooke Canada)
Is ketone production part of the role of omega-3 fatty acids in the brain?

11h15 -11h45
Richard P. BAZINET. Department of Nutritional Sciences, Faculty of Medicine, University of Toronto, FitzGerald Building, 150 College St., Room 306, Toronto, ON, MSS 3E2, Canada.
Title: Brain omega-3 polyunsaturated fatty acids modulate microglia cell number and morphology in response to intracerebroventricular amyloid-β 1-40 in mice
11h45-12h15
Jan PALMBLAD. Dept. of Medicine, Karolinska Institutet. Karolinska University Hospital Huddinge SE-14186 Stockholm, Sweden.  
**Title: Methylation of DNA in leukocytes from AD patients given supplementation with omega-3 fatty acids**

12h15 - 14h00  LUNCH (restaurant hippodrome)

Session 3: Impact of Omega 3 Fatty Acids and Lipid Nutrition

14h00-14h30
Joseph NICOLAZZO. Drug Delivery, Disposition and Dynamics, Monash Institute of Pharmaceutical Sciences, Monash University, 381 Royal Parade, Parkville, Victoria 3052, Australia.  
**Title: Impact of Docosahexaenoic Acid on Alzheimer's Disease: and the Blood-Brain Barrier**

14h30-15h00
Nicolas VITALE. INSERM Institut des Neurosciences Cellulaires et Intégratives. UPR-3212 CNRS - Université de Strasbourg, France.  
**Title: Distinct role of mono and poly-unsaturated forms of phosphatidic acid in neurosecretion and neuronal growth**

15h00-15h30
Gregory COLE. Professor UCLA Dept Medicine & Neurology, USA.  
**Title: Dietary DHA supplementation in an APP/PS1 transgenic rat model of AD reduces behavioral and Aβ pathology and modulates Aβ oligomerization**

15h30 – 16h00  Coffee break

16h00- 16h30
Nick van WIJK. Nutricia Advanced Medical Nutrition, Danone Nutricia Research, Utrecht, The Netherlands.  
**Title: Targeting brain lipid metabolism in early Alzheimer's disease**

16h30-17h00
Marcus GRIMM. Experimental Neurology, Saarland University, Kirrberger Str. 1, 66421 Homburg/Saar, Germany.  
**Title: The impact of Lipids and fat soluble Vitamins in Alzheimer’s disease**

17h00-17h30
Cédric ANNWEILER. Department of Neuroscience, Geriatrics Division, Angers University Hospital, Angers, France.  
**Title: Vitamin D and neurocognition in older adults**

19h00-23h00 : Gala Dinner at the Former Hall of Nancy
Session 4: PUFA and Vectorisation in the Brain

8h30-9h00
Michel LAGARDE. CarMeN, Villeurbanne. France
Title: Acetyl,DHA-GPC: a structured phospholipid to provide DHA to the brain, with additional acetylation effects

9h00-9h30
Gregory COLE. Professor UCLA Dept Medicine & Neurology. USA.
Title: Curcumin as an active drug delivered to brain for Alzheimer’s disease

9h30-10h00
Sophia G. ANTIMITISARI. Dept. of Pharmacy, University of Patras, Greece.
Title: Nanoparticle based drug delivery systems crossing blood brain barrier

10h00 - 10h30 Coffee break

10h30-11h00
Elmira ARAB-TEHRANY. Université de Lorraine-Nancy, France.
Title: Active nanoliposome as the best DHA delivery

11h00-11h30
Sally A FRAUTSCHY. UCLA Dept Medicine & Neurology. USA.
Title: Roles for both Omega-3 and Omega-6 PUFA in Alzheimer Prevention

11h30-12h00
Emmanuel I. STRATAKIS. University of Crete Hellas Depart. of Materials Science and Technology FORTH, Greece.
Title: PUFA and brain-on-a-chip microfluidic device

12h20 – 14h00 LUNCH (restaurant hippodrome)

14h00-14h30 Poster awards

14h30-15h00 Conclusion of the Congress by the Scientific Commitee of SFEL
**Registration Fees LIPIDS and BRAIN IV: Lipids in Alzheimer disease**

<table>
<thead>
<tr>
<th>Lipids and Brain IV registration fees</th>
<th>Until 18/09/2017</th>
<th>After 18/09/2017</th>
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<tbody>
<tr>
<td><strong>SFEL members</strong></td>
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<tr>
<td>- Updated membership 2017</td>
<td>490 €</td>
<td>590 €</td>
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<td>- Futur SFEL members with membership 2017</td>
<td>570 €</td>
<td>650 €</td>
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<td><strong>Academic SFEL members</strong></td>
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<tr>
<td>- Updated membership 2017</td>
<td>290 €</td>
<td>390 €</td>
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<td>- Futur SFEL members with membership 2017</td>
<td>370 €</td>
<td>470 €</td>
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<tr>
<td><strong>SFEL Retired Member</strong></td>
<td>100 €</td>
<td>200 €</td>
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<td>*<em>Student (proof needed <em>)</em></em></td>
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<tr>
<td>- With membership 2017</td>
<td>180 €</td>
<td>280 €</td>
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<tr>
<td>- Futur SFEL members with membership 2017</td>
<td>260 €</td>
<td>360 €</td>
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<tr>
<td><strong>Gala dinner</strong></td>
<td>95 €</td>
<td>95 € (According to availability)</td>
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S sponsoring Proposals

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<tr>
<th>Sponsor Level</th>
<th>Description</th>
<th>Amount</th>
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<tr>
<td>Super Gold Sponsor</td>
<td>Stand for posters /products presentation, display on web and screens during the three days, documents in the bags.</td>
<td>8 000 euros</td>
</tr>
<tr>
<td>Gold Sponsor</td>
<td>Invitation of « Médaille Chevreul »</td>
<td>6 000 euros</td>
</tr>
<tr>
<td>Silver Sponsor</td>
<td>display on web and screens during the three days, documents in the bags</td>
<td>5 000 euros</td>
</tr>
<tr>
<td>Silver Sponsor</td>
<td>poster at the restaurant’s entrance and announcement before lunch + sponsor indication on the menu. Display on web and screens during the three days,</td>
<td>4 000 euros</td>
</tr>
<tr>
<td>Bronze Sponsor</td>
<td>Bags with Logo. Display on web and screens during the three days.</td>
<td>3 000 euros</td>
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<td>Bronze Sponsor</td>
<td>availability of a booth for posters / products presentation. Display on web and screens during the three days,</td>
<td>3 000 euros</td>
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<td>Documents inside the bags</td>
<td>distribution to all the speakers and guests. Display on web and screens during the three days.</td>
<td>2 500 euros</td>
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<tr>
<td>Sponsorship of a coffee break</td>
<td>poster + documents available. Display on web and screens during the three days.</td>
<td>2 000 euros</td>
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Every sponsor’s logo will be on the “Journées Chevreul” leaflet.

Each funding of more than **3000 euros** offers free access to conference and gala dinner to a representative of the sponsor and 2 for more than 6000 euros.

We are open to any other proposal.

For more informations, please contact: bernadette.delplanque@u-psud.fr; guesnet07@gmail.com; elmira.arab-tehrany@univ-lorraine.fr; michel.linder@univ-lorraine.fr
1963 M. E. André (FR)  M. J. Jacini (IT)  M. M. Loncin (BE)
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1980 M. A. Provát (FR)  M. J. Pokorny (CZ)
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1988 M. L. Faur (FR)  M. U. Bracco (SZ)
1989 M. J. M. Bourre (FR)  M. G. Robbelen (DEU)  M.P. Capella (IT)
1990 M. L. Maréou (FR)  M. F. Gunstone (UK)
1991 M. A. Karleskind (FR)  M. M. Fondu (BE)
1992 M. R. Dufaitel (FR)  M. R. Celades (ES)
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1995 M. A. Lesaichère (FR)  M. K. Downey (CA)
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2016 M. A. Pouzet (FR)  M. D. Wett (USA)
2017 M. P. Legrand (FR)

**Medal CHEVREUL 2017: Pr Stephen CUNNANE**
Previous congresses
Gala Dinner on Tuesday 10 October 2017
at the former hall of Nancy

Meals will be taken every lunchtime at
the restaurant “Hippodrome”
(Monday, Tuesday and Wednesday)