



SPHINGOLIPID CLUB

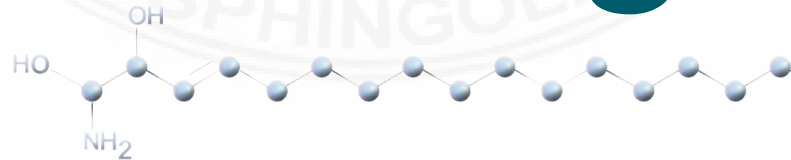
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we are sphingolipids



14th SLC Meeting



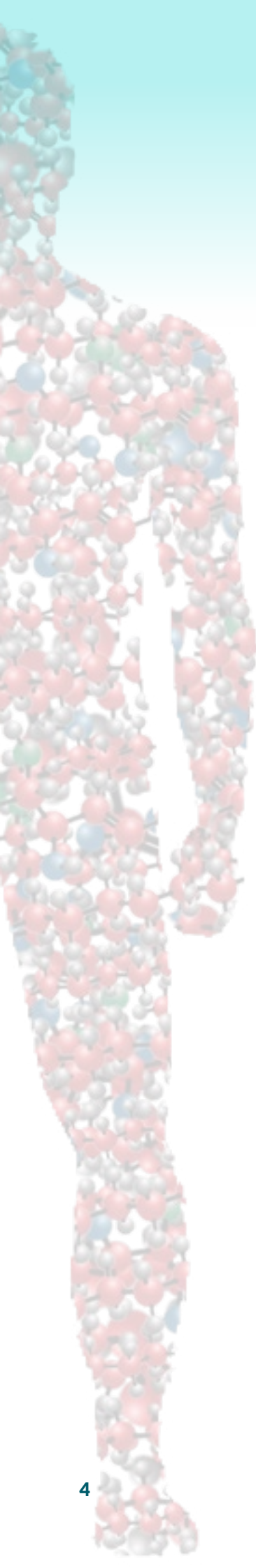


14th SLC Meeting

Saturday, Sept. 10, 2022

Neuromed Research Centre, Pozzilli

- 09:00-13:00 **ISN Symposium: Sphingolipids and brain: pathophysiology and therapeutics**
Chairs: **Alba Di Pardo, Vittorio Maglione** (Pozzilli, IT)
- 09:00-09:10 *Introduction by Chairs*
- 09:10-09:35 **Simonetta Sipione** (University of Alberta, CA)
Gangliosides: old dogs with new tricks
- 09:35-10:00 **Massimo Aureli** (University of Milan, IT)
Role of the lysosomal impairment in the onset of neuronal degeneration
- 10:00-10:25 **Wiebke Herzog** (University of Erlangen, DE)
Regulation of blood-brain barrier properties by Sphingosine-1-phosphate signaling
- 10:25-10:50 **Eric Camerer** (Université Paris Cité, FR)
Tight control of S1P signaling at the blood-brain barrier
- 10:50-11:05 *Coffee break*
- 11:05-11:30 **Pilar Martinez-Martinez** (University of Maastricht, NL)
- 11:30 -11:45 **Angel Gaudio** (Centro Biología Molecular Severo Ochoa (CSIC-UAM), Madrid, ES)
Sphingomyelin 16:0 is a therapeutic target for brain pathology in Acid Sphingomyelinase deficiency
- 11:45-12:00 **Liubov Kalinichenko** (University of Erlangen, DE)
Ceramide system contributes to learning and memory
- 12:00-12:15 **Daan Van Kruining** (Maastricht University, NL)
FTY720 decreases ceramide levels in the brain and prevents memory impairments in a mouse model of familial Alzheimer's disease expressing ApoE4



- 12:15-12:30 **Sara Grassi** (University of Milan, IT)
Sphingolipid-dependent membrane organization and signaling orchestrating myelin repair
- 12:30-12:45 **Giuseppe Pepe** (IRCCS Neuromed, IT)
Treatment with THI, an inhibitor of Sphingosine-1-Phosphate Lyase (SGPL1), modulates glycosphingolipid metabolism and results therapeutically effective in a mouse model of Huntington's disease
- 12:45-13:00 **Shah Alam** (University of Bonn, DE)
S1P-lyase deficiency in the brain increases glucose breakdown evoking a P2Y1 Receptor-dependent astrogliosis
- 13:00-14:00 *Lunch*
- 14:00-15:00 **Poster flash presentations (2 slides in 2 min)**
Chair: **Riccardo Ghidoni** (Milan, IT)
- Gloria Grelle M.R.S.** (Universidade Federal do Rio de Janeiro, BR)
LC-HRMS-based sphingolipid profiling of renal cells exposed to ischemia
- Dragana Fabris** (University of Zagreb, HR)
Ceramides and sphingomyelins in ischemic stroke: a preliminary study
- Gloria Grelle M.R.S.** (Universidade Federal do Rio de Janeiro, BR)
Ceramide-1-Phosphate as a potential regulator of the second sodium pump from kidney proximal tubules through different protein kinase pathways
- Luisa Volk** (Universität of Frankfurt am Main, DE)
Functional consequences of sphingosine-1-phosphate lyase deletion in mouse hepatocytes

Samuela Cataldi (University of Perugia, IT)
Egg yolk sphingomelin facilitates the maturation of hippocampal embryonic cells

Federico Fiorani (University of Perugia, IT)
Exosomes amplify the signal of vitamin D3-induced embryonic hippocampal cell differentiation via ceramide

Tommaso Beccari (University of Perugia, IT)
Neuroprotective effect of Eicosapentaenoic acid and Docosahexaenoic acid on SH-SY5Y cells

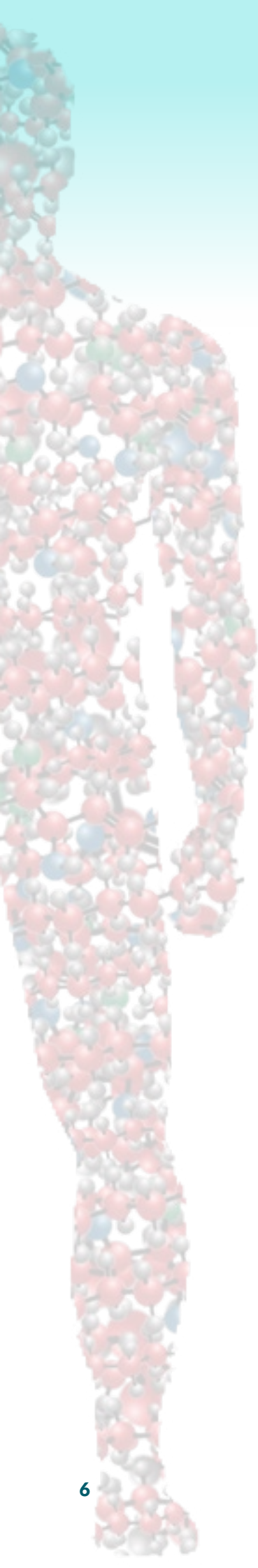
Michele Dei Cas (University of Milan, IT)
Altered sphingolipid content in extracellular vesicles derived from primary intrahepatic cholangiocarcinoma cells

Marzia Corli (University of Brescia, IT)
Unravelling the role of β -galactosylceramidase in melanoma neovascularization

Ondreji Kovac (Veterinary Research Institute, CZ)
Possible role of the aryl hydrocarbon receptor in modulation of sphingolipid and glycosphingolipid metabolism in colon cancer cell models

Josè Luis Abad (CSIC Barcelona, ES)
Fluorescent ceramide-labeled probes with bodipy and coumarin-based coupy fluorophores

Alix Pierron (ENVT Toulouse, FR)
Targeted sphingolipid analysis reveals differences on wild type mouse and SOCS2 deficient mouse in peritonitis zymosan induced



Christiane Mühle (University Erlangen, DE)
Interplay of sphingolipids and α -synuclein in
Parkinson's disease and major depressive disorder

Lucia Sessa (University of Salerno, IT)
The influence of hydroxylation in the mechanism of
action of α -hydroxy-ceramide

Bisera Stepanovska Tanturovska (University of Bern, CH)
S1P stimulates erythropoietin production in mouse
renal interstitial fibroblasts by S1P1 and S1P3 receptor
activation and HIF-2 α stabilization

Karoli Liliom (Semmelweis University, HU)
Apolipoprotein D is a lipocalin carrier protein for
lysophospholipid mediators

Gemma Fabrias (CSIC Barcelona, ES)
A novel fluorogenic probe to monitor the activity
of acid ceramidase, fatty acid amide hydrolase and
N-acyl ethanol-amine acid amidase

Salvatore Fiorinello (National Research Council of Italy, Napoli, IT)
Pharmacological treatment with sphingosine analogues
to correct glycosphingolipid metabolic derangements in
Rett syndrome models

Christiane Mühle (University Erlangen, DE)
Sphingomyelin synthases in depression and
antidepressant treatment

Fabrizia Noro (IRCCS Neuromed, IT)
The effect of gangliosides on human platelet
aggregation and platelet-leukocyte mixed aggregate
formation

15:00-15:15 *Coffee break*

15:15-16:30 *Laboratories guided tour
Neuromed Research Centre*

16:30 - 18:00 **SESSION 4**
Sphingolipids and brain 2.0
Chairs: **Simonetta Sipione** (Edmonton, CA)
Eric Camerer (Paris, FR)

16:30 - 16:55 **Christian Müller** (University of Erlangen, DE)
Neutral Sphingomyelinase in the control of alcohol
abuse and its comorbidities

16:55-17:10 **Floriana Della Ragione** (National Research Council of Italy, Napoli, IT)
Imbalance of glycosphingolipid metabolism in Rett
Syndrome as a novel potential therapeutic target

17:10-17:35 **Thorsten Hornemann** (USZ, Zürich, CH)
Motor neuron disease or sensory neuropathy? L-Serine
as a modulating factor

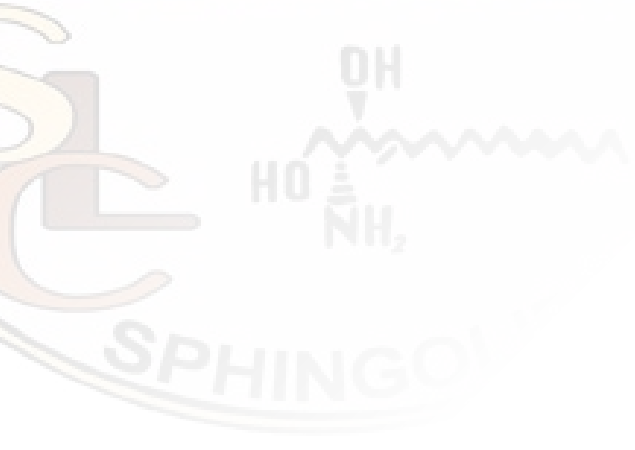
17:35-18:00 **Alessandra D’Azzo** (St. Jude Children’s Research Hospital, Memphis, US)
Role of membrane contact sites in the
neuropathogenesis of GM1-Gangliosidosis

20:30 *Gala dinner and live entertainment*

Sunday, Sept. 11, 2022
Grand Hotel Europa, Isernia

09:00-10:00 *General Meeting of the SLC*

10:00-10:15 *Closing remarks*



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Via Eugubina 66/I - 06126 Perugia (PG)
info@sphingolipidclub.com

WEB SITE



Neuromed Research Centre - Parco Tecnologico
Via dell'Elettronica - 86077 Pozzilli (IS) - Italy
Tel. +39 0865.915204 - Fax +39 0865.927575
direzionescientifica@neuromed.it

LOCATION

