



**FAT4BRAIN Symposium on novel drug target  
and pathway identification  
April 20 - 21, 2023**

Wellton Riverside SPA Hotel, 11. Novembra krastmala 33, Riga, Latvia

**20 April 2023/ Thursday**

08:30 - 09:00 | **Registration/ Coffee**

09:00 - 09:20 | **Welcome/Introduction**

*Maija Dambrova, LV, FAT4BRAIN project Coordinator*

**Session 1 Energy metabolism**

09:20-10:20 | *Sean Adams, US*

10:20-11:00 | Coffee break

11:00 - 12:00 | *Eric Gnaiger, AT*

Inhibition of fatty acid oxidation or off-target effects of etomoxir? The key role of mitochondrial Complex I

12:00 - 13:00 | *Edgars Liepins, LV*

Fatty acid metabolism in the brain

13:00 - 14:00 | Lunch break

**Session 2 Early stage researcher (ESR) presentations**

14:00-14:20 | *Kārlis Pleiko, LV/EE*

Precision-guided interventions: The promise of aptamer targeting  $\beta$ 1-integrin

14:20-14:40 | *Kateřina Pospíšilová, CZ*

The effects of bilirubin and lumirubin on metabolic and oxidative stress markers

14:40-15:00 | *Bianca Seminotti, US*

Anaplerotic compounds improve O<sub>2</sub> consumption and restore succinyl-lysine antigenic signal in long-chain fatty acid oxidation deficient cells

15:00-15:30 | Coffee break

15:30-15:50 | *Mateus Grings, AT*

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	Simultaneous measurement of respiration and redox ratios of NADH and CoQ: new possibilities to investigate mitochondrial physiology and fatty acid oxidation
15:50-16:10	<i>Edijs Vavers, EE</i> Sigma-1 receptor and seizures: an overview
16:10-16:30	<i>Melita Ozola, LV</i> Debunking Science Myths about L-Carnitine and Acetyl-L-Carnitine: To Be or Not To Be?
Afternoon	Visit to LIOS, Laboratory of Pharmaceutical Pharmacology (optional)
18:30	<b>Welcome dinner, LIDO Krasta, Krasta iela 76</b>

## 21<sup>st</sup> April 2023/ Friday

### Session 3 Lipids in brain

09:30-10:30	<i>Georg Reiser, DE</i> Neuronal protective strategies against brain lipotoxicity
10:30-11:00	Coffee break
11:00-12:00	<i>Serge Luquet, FR</i> Lipid sensing in the reward system
12:00 - 13:00	Lunch break

### Session 4 FAT4BRAIN scientific achievements and future perspectives

13:00-13:30	<b>Achievements of the Consortium, Maija Dambrova, LV</b>
13:30-14:00	<b>Uppsala University, Helgi Schiöth, SE</b>
14:00-14:30	<b>UKJ, Bianca Besteher, DE</b>
14:30-15:00	<b>Oroboros Instruments, Luiza Cardoso, AT</b>
15:00-15:30	Coffee break
15:30-16:00	<b>LIOS, Līga Zvejniece, LV</b>
16:00-16:30	<b>Early stage researchers, Melita Ozola and Baiba Svalbe, LV</b>
16:30-18:00	<b>Round Table Discussions</b>



The **FAT4BRAIN** project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 857394

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