



XXII International Conference on Organic Synthesis

September 2018, per control of the c



SCIENTIFIC PROGRAM & ABSTRACT BOOK http://www.22-icos-florence.it/

P343

 $I^{\rm st}$ Generation dendrimeric structures and fatty acid conjugates of arylmethyl Meldrum's acids

<u>Inese Mierina,</u> Darta Zelma Skrastina, Elina Zoltnere, Klinta Krasanska, Mara Jure Institute of Technology of Organic Chemstry, Faculty of Materials Science and Applied Chemistry, Riga Vechnical University, Str. P. Valdena 3.7, Riga, LV 1048; <u>Inese Meeting dentals</u>

Antioxidants are found to be useful for treatment of various oxidative stress caused diseases, especially, neurodegenerative illness;¹ unfortunately usage of antioxidants often is rather limited Meldrum's acids as novel outstanding antioxidants with great antioxidant activity both in for crossing blood-brain barrier, some authors have suggested to incorporate the active compound The structure of arylmethyl Meldrum's acids can be easily modified leading to significant changes nentioned examples we have designed the new 1st generation dendrimers; Inspired by above both aliphatic and aromatic core. Besides that few conjugates 2-4 containing 1,2,3-triazole linker structures, with increased antiradical activity in comparison to analogous compounds which are not discussed. The antiradical activity of all synthesized compounds 1-4 was evaluated by DPPH and

References: I. Ghosh, N.; Ghosh, R.; Mandal, S. C. Free Radic, Rev. 2011, 45, 888, 2. Gilgun-Sherki, Y.; Melamed, E., Olffen, D. Neurophurmacology 2001, 40, 959, 3. Mierina, I.; June, M.; Zeberga, S.; Makarevitonere, V.; Zicane, D.; Tetere, Z.; Ravina, I. Ein, J. Lipid Sci. Technol. 2017, 119, article no. 1700172, 4. Watal, G.; Watal, A.; Ra, P. K.; Rai, D. D. K.; Sharma, G.; Sharma, B. Methode Mol. Biol. 2013, 1028, 147, 5. Wang, J. Z.; Xiao, N.; Zhang, Y. Z.; Zhao, C.; Shruct, Chem. 2015, 71, 752.

Acknowledgements. This work has been supported by the European Regional Development Fund within the Activity 1.1.1.2 "Post-doctoral Research Aid" of the Specific Aid Objective 1.1.1 "To increase the research and innovative capacity of scientific institutions of Latvia and the ability to attract external financing, investing in human resources and infrastructure" of the Operational Programme "Growth and Employment" (No. 1.1.1.2/VIAA/1/16/039).