



## Novice št. 9; Marec 2021

Partnerji v projektu Cogdec so potrdili termin *Cogdec Poletne šole 2021*, ki bo potekala med 20. in 24. septembrom 2021. V kolikor bo mogoče, bomo trening izvedli v živo v prostorih Medicinske fakultete, v načrtu pa imamo tudi ogled MR Laboratorija in neformalno druženje. Podrobnosti bodo znane kmalu.

Čeprav zaradi trenutne Covid-19 situacije ne moremo poslati naših raziskovalcev na izobraževanja v Grazu in Leuvnu, pa to ne pomeni, da le-ti počivajo. Poleg digitalnega postra, ki ga je na ISMRM 2021 predstavil eden izmed naših raziskovalcev, je v pripravi tudi nekaj skupnih člankov in prijav na projekte.

Digital Posters  
**Imaging Metabolites in the Brain**

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**3727.** **GABA and Susceptibility Changes in Striatum in Liver Cirrhosis: Preliminary Results**

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This work introduces a reference frame for the evaluation of single-voxel spectroscopy scans of brain tumors. The goal of this work is to stratify the classification of spectra based on metabolic features to maximize their specificity. The method was developed using decision trees and tested with different sample classifications that included tumor vs. non-tumor voxels and IDH vs. non-IDH tumors.

Liver cirrhosis (LC) is a worldwide public health problem. One of the complications of LC is hepatic encephalopathy which can present only as subtle cognitive impairment. Using advanced MR methods (MEGA-PRESS Spectroscopy and Quantitative Susceptibility Mapping), decreased striatal GABA levels, decreased susceptibility in caudate nucleus and increased susceptibility in putamen were demonstrated in LC patients compared to healthy controls. GABA levels and susceptibility in putamen correlated with the results of neuropsychological tests in the LC group compared to healthy controls.

## Newsletter nr. 9; March 2021

The dates for Cogdec Summer School 2021 are set – event will be held September 20<sup>th</sup> - 24<sup>th</sup> 2021. If possible, event will be held on-site in the premises of Faculty of Medicine in Ljubljana, and will offer the possibility to visit MR Laboratory and attend the informal gathering. Details will be known soon.

Even though our researchers cannot attend trainings at Graz and Leuven due to the Covid-19 related restrictions, they are very active in these days. One of them presented digital poster on the Annual ISMSM conference 2021 and a few of them are working on joint articles with our advanced partners.

