

I have spent 2-months in the Lipid Metabolism: Analysis and Integration (LMAI) laboratory of Maria Fedorova at the Center for Membrane Biochemistry and Lipid Research (ZML), TU Dresden, Germany. The initial focus of my short-term scientific mission funded by CA19105 – Pan-European Network in Lipidomics and EpiLipidomics (EpiLipidNET) was to learn and apply the analysis of oxidized lipids. I brought clinical samples of plasma and serum which were collected in a paired manner from patients at the University Hospital Olomouc in the Czech Republic. The idea was to evaluate the differences in paired samples of serum and plasma with practical insights into clinical epilipidomics. The people in Maria Fedorova's lab were welcoming, and inspiring and I gained a lot of new experience during this time period. People were helpful and I learned how to use new bioinformatic software for the in silico prediction of lipid oxidation and analysis of oxidized lipids. From a more informal point of view, I felt very welcome as I was invited to multiple events organized by the lab and all people from the group were very supportive and collaborative. We discussed recent relevant publications in the field in regular lab meetings which was very beneficial to keep updated on the current trends in (not only) epilipidomics. I visited many friends who happened to be working in Dresden, and I also visited Lipotype which is a company I have been interested in for a long time and I participated in the Science Slam organized by the company during my visit. I believe that this opportunity will lead to fruitful future cooperation between our laboratories. As our laboratory is focused on clinical applications of lipidomics, the connection with LMAI with expertise in advanced (epi)lipidomics can help to establish the analysis of epilipids in the clinical setting in the future. I would like to thank the EpiLipidNET for the opportunity to increase my knowledge and experience and for giving me a chance to enhance my scientific network and career.

