

Prof. Dr. Tobias Madl currently Full Professor for Integrative Structural Biology and Metabolomics at Medical University of Graz and have more than 15 years experience in structural biology. Together with my team, I work at the interface between structural biology, biophysics, cell biology and medicine. NMR spectroscopy and biophysical methods are the most important tools in my laboratory. In my lab we investigate the (un)structure-function-disease relationship of disordered proteins with particular focus on the axis connecting transcription factors and RNA-binding proteins and coupling of posttranslational modifications regulating this axis and metabolism. My lab has successfully implemented and applied novel methods for integrative structural biology. In collaboration with the De Keizer lab we discovered that the p53-FOXO4 axis is important for stabilization of senescent cells and founded a company (Cleara Biotech) in which we translate our results to novel therapeutics targeting cellular senescence in ageing & age-related diseases.