

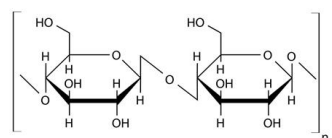


Project presentation

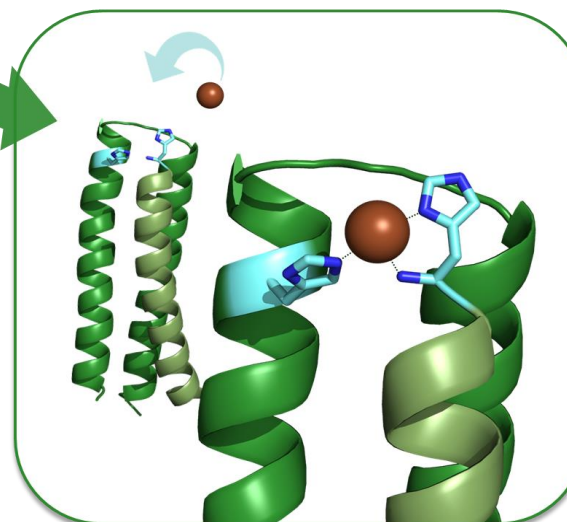
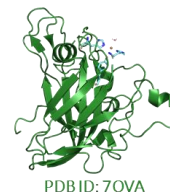
Development of artificial metalloenzymes inspired by Lytic Polysaccharide Monooxygenases (LPMOs) that catalyze the degradation of recalcitrant waste materials for the production of value-added products.



Biomass
CELLULOSE, CHITIN,
LIGNIN



De Novo
Metalloenzymes
Inspired by LMPOs



**Value-Added
Chemicals**
OBTAINED BY CLEAVAGE OF
GLYCOSIDIC BOND
➤ Biofuels
➤ Circular Economy

Ph.D. Student:
Lorena Šimunić

**Peptide-based
artificial
metalloenzymes for
waste valorization**