KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

dr. Alen Albreht

D06, Department of Food Chemistry

Četrtek / Thursday, 31.1.2019 ob / at 13:00

Velika predavalnica Kemijskega inštituta/ Great Lecture Hall,
National Institute of Chemistry, Hajdrihova 19, Ljubljana

Structural studies of propargylamine-inhibited monoamine oxidase A

Catalytic inhibition of monoamine oxidases (MAOs), the enzymes that influence the levels of the monoamine neurotransmitters (dopamine, serotonin, noradrenaline) in brain, is a key property in multi-target drugs to slow or prevent neurodegeneration. Despite much excellent chemical exploration, the chemical structure and mechanism of irreversible inhibition of MAOs by propargylamine inhibitors is still debated. Based on an interdisciplinary study, the structure of the covalent MAO-inhibitor adduct will be revealed. The molecular properties imparted by a cyanine structural motif will be discussed.

Vljudno vabljeni / Kindly invited