



March 4, 2019

Conference of the Joint Russian-Italian Project

Molecular characterization of enzymes involved in vitamin B1- and B6-dependent epilepsies

Dipartimento di Scienze Biochimiche "Rossi-Fanelli", Sapienza Università di Roma

9:30 -10. *Introductory remarks.* Roberto Contestabile (Dept. Biochemical Sciences, Sapienza University) and Angela Tramonti (IBPM-CNR)

10-10:30. *Protective role of Pyridoxal 5'-Phosphate against DNA damage in Drosophila models of type 2 diabetes expressing Pyridoxal Kinase mutant forms.* Fiammetta Vernì

10:30 - 11. *Role of Escherichia coli Pyridoxine 5'-phosphate Oxidase and Pyridoxal Kinase as Pyridoxal 5'-Phosphate Carrier Protein.* Anna Barile, PhD student

11 -11:20. *Yggs: a putative Pyridoxal 5'-Phosphate Carrier in E. Coli.* Federico D'Alessio, PhD student

11:20 -11:50. *Influence of vitamins B1 and B6 on the pentylenetetrazol-induced epilepsy in rats.* Victoria Bunik

11:50 -12:10. *Changes of B1- or B6-dependent enzyme activities in rat cerebral cortex upon PTZ-induced epilepsy and B1+B6 treatment.* Alexandra Boyko, Graduate Student

Break

13-13:15. *Correlation analysis of enzymatic activities in cerebral cortex and severity of epileptic seizures in PTZ-treated rats.* Artem Artiukhov, PhD student

13:15 - 14. *Role of p53 in epilepsy and effects of vitamins B1 and B6 on p53.* Vasily Aleshin, PhD student

14 - 14: 15. *Structure-function relationship in the regulation of Pyridoxal Kinase by thiamine, its natural derivatives and antagonists.* Victoria Bunik

14:15 – 15:15 *General discussion*