

**Suggested essay topics for the students' competition in pathophysiology
in memory of "Hógyes Endre"
2013/2014**

- The role of nutritional risk factors in the development of ischemic cardiovascular diseases
Tutors: Dr. Szollár Lajos, Dr. Tornóci László
- The role of inflammation in the development and progression of arteriosclerosis
Tutor: Dr. Szollár Lajos
- Vaccination, a possible therapy of arteriosclerosis
Tutor: Dr. Szollár Lajos
- The role of TGF- β in atherosclerosis
Tutors: Dr. Hamar Péter
- The pathophysiology of metabolic X syndrome
Tutor: Dr. Szollár Lajos
- Inherited and acquired factors of diabetes mellitus
Tutor: Dr. Tornóci László
- Pathomechanism of the side effects developing in diabetes mellitus type I and its therapeutic possibilities
Tutors: Dr. Molnár Miklós
- The physiology and pathophysiology of a tissue specific renin angiotensin system (kidney, brain)
Tutor: Dr. Rosivall László
- Juxtaglomerular apparatus, the brain of the kidney
Tutors: Dr. Rosivall László
- Specific inhibition of cyclooxygenase-2
Tutor: Dr. Molnár Miklós
- Molecular mechanism of preterm delivery
Tutor: Dr. Molnár Miklós
- The pathogenesis of hypertension in pregnancy – preeclampsia – eclampsia
Tutor: Dr. Kriston Tünde
- The effect of pregnancy on the progression of SLE
Tutors: Dr. Kökény Gábor, Dr. Hamar Péter
- The role of T lymphocytes in progressive kidney fibrosis
Tutors: Dr. Kökény Gábor, Dr. Hamar Péter
- Mechanism of apoptotic cell death during reperfusion after ischemia
Tutors: Dr. Hamar Péter
- Possible use of RNA interference in clinical practice
Tutors: Dr. Hamar Péter
- The role of relaxin in the development of cardiovascular diseases
Tutors: Dr. Mózes Miklós, Dr. Kökény Gábor
- The role of relaxin in kidney diseases
Tutors: Dr. Kökény Gábor, Dr. Mózes Miklós
- The role of TGF- β in progressive kidney fibrosis
Tutor: Dr. Mózes Miklós
- Biochemical markers of monitoring tissue ischemia
Tutor: Dr. Papp Enikő
- A new hypothesis in the pathomechanism of a disease of your choice
Your own tutor can refer you to the person who can help you with writing this essay, depending on the subject.

The date and time of the competition: the 3rd May, 2014. (Saturday) 9:00-12:00h.
Place: NET Green auditorium.