

Tutorial III: *autumn semester 2014/2015*

Group No. 31	11/3/2014 16:00 - 18:30	Campus, Department of Physiology, room 207
Group No. 32	11/5/2014 13:00 - 15:30	Campus, Department of Physiology, room207
Group No. 35	##### 13:30 - 16:00	Campus, Department of Physiology, room207
Group No. 33	##### 16:15 - 18:45	Campus, Department of Physiology, library
Group No. 34	##### 13:00 - 15:30	Campus, Department of Physiology, room207
Group No. 30	##### 16:15 - 18:45	Campus, Department of Physiology, room207
Group No. 37	##### 13:00 - 15:30	Campus, Department of Physiology, room207
Group No. 36	##### 13:30 - 16:00	Campus, Department of Physiology, room207

The tutorial takes place **in the Department of Physiology, building A 20, Campus, Kamenice 5, Brno-Bohunice**

The tutorial will be held by Nováková Zuzana, MD, Ph.D.

Program:

Heart as a muscle

- a) Phases of cardiac cycle in pressure / volume representation
- b) Cardiac output and its measurement
- c) Starling principle
- d) Frequency effect
- e) Cardiac contractility and its measurement (eg. ejection fraction)

Coronary circulation

- a) Coronary blood flow- functional features
- b) Regulation of coronary flow
- c) Coronary reserve
- d) Ischaemic heart disease

Rheology (of blood circulation)

- a) Resistance and capacitance vessels
- b) Blood pressure in different parts of blood circulation (from aorta to veins)

All students are obliged to read the theory prior to the tutorial (Barrett: Ganong´s Review of Medical Physiology).

The tutorials are obligatory, the presence is the condition for obtaining the credit.

All students are allowed to substitute only one tutorial during one semester -

those who will have more than one absence will not obtain the credit from tutorials.

doc. PharmDr. Petr Babula, Ph.D.
Head of the Department of Physiology

