

## **Tutorial V: autumn semester 2015/2016**

<b>Group No. 30</b>	<b>#####</b>	<b>13:30 - 15:10</b>	Campus, Department of Physiology, lib
<b>Group No. 32</b>	<b>#####</b>	<b>9:00 - 10:40</b>	Campus, Department of Physiology, ro
<b>Group No. 33</b>	<b>#####</b>	<b>13:00 - 14:40</b>	Campus, Department of Physiology, lib
<b>Group No. 31</b>	<b>##### ?</b>	<b>9:00 - 10:40</b>	Campus, Department of Physiology, ro
<b>Group No. 37</b>	<b>#####</b>	<b>11:00 - 12:40</b>	Campus, Department of Physiology, ro
<b>Group No. 34</b>	<b>#####</b>	<b>13:30 - 15:10</b>	Campus, Department of Physiology, lib
<b>Group No. 35</b>	<b>##### ?</b>	<b>9:00 - 10:40</b>	Campus, Department of Physiology, ro
<b>Group No. 36</b>	<b>#####</b>	<b>11:00 - 12:40</b>	Campus, Department of Physiology, ro

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.

<b>Autopsy practice</b>	in the 11th week of tuition (30.11.-4.12.2015): 30, 31, 32, 33 - 8.00 to 12.00h
<b>Department of Anatomy</b>	in the 11th week of tuition (30.11.-4.12.2015): 34, 35, 36, 37 - 13.00 to 17.00h
	in the 12th week of tuition (7.-11.12.2015): 30, 31, 32, 33 - 13.00 to 17.00h
	in the 12th week of tuition (7.-11.12.2015): 34, 35, 36, 37 - 8.00 to 12.00h

Program:

### **Heart as a muscle**

- electrical and mechanical properties of heart muscle
- cardiac contractility (influence by temperature, Ca<sup>2+</sup>, ATP, frequency)
- cardiac reserve
- peculiarity of energetic metabolism of the heart

### **Cardiac cycle**

- Phases of cardiac cycle (pressure-volume loop)

### **Autoregulation of the heart**

- Starling principle
- Frequency effect

### **Coronary circulation**

- Coronary blood flow- functional features
- Regulation of coronary flow
- Coronary reserve
- Ischaemic heart disease

All students are obliged to read the theory prior to the tutorial (Barrett: Ganong's Review of Medical Physiology-Chapter 31, pp.507-514,517-519; chapter 34,pp.577-580).

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

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