



### Useful links

#### Examination

- Questions for final examination in physiology (1LF, GM)
- Questions for final examination in physiology (Dentistry)
- Physiology Labs (1LF, GM)

#### Institutes

- Institute of Physiology, First Faculty of Medicine (<http://fyziologie.lf1.cuni.cz>)

#### Links

- Atlas of Physiology and Patophysiology ([http://www.physiome.cz/atlas/index\\_en.html](http://www.physiome.cz/atlas/index_en.html))
- KofrLab (Laboratory of Biocybernetics and Computer Aided Teaching) (<http://patf-biokyb.lf1.cuni.cz/>)

### Physiology

#### Cell Physiology

- Classification of Receptors
- Resting Membrane Potential
- Neuromuscular Transmission
- Primary and Secondary Active Transport
- Primary Active Transport
- Secondary Active Transport
- Synaptic Transmission
- Transformation of Synaptic Input into Action Potential
- Refractory Period

#### Blood

- Hemoglobin
- Red Blood Cells
- Sickle Cell Anemia
- Blood Groups
- Disseminated intravascular coagulation

#### Immune System

- Innate Immune System
- Defensive properties of neutrophils and monocyte-macrophages

#### Endocrine System

- Endocrine and Biological Rhythms
- Pancreatic Hormones

#### Metabolism and Nutrition

- Fat Soluble Vitamins

#### Heart and Circulation

- Human Fetal Circulation
- Heart Autorhythmicity
- Electrocardiography • Electrocardiogram • ECG Leads
- Cardiac Output Control
- Cardiac Output
- Coronary Blood Flow
- Regulation Mechanisms of Blood Flow in Organs

#### Lungs

- Chemical Regulation of Breathing
- Ventilation-Perfusion Ratio; Consequences on Arteriole pO<sub>2</sub>

#### Nervous System

- Milieu of Central Nervous System
- Functions of the Neuronal Circuits
- Sympathetic and Parasympathetic Action
- Function of Cerebral Cortex
- Glial Cell • Myelin Sheath
- Classical Conditioning
- Integration Activity of Neurons
- Cerebrospinal Fluid
- Dendrite
- Inhibitory Neuronal Circuits
- Long-Term Potentiation
- Membrane Potentials
- Action Potential
- Chemoreceptors