

## Department of Pharmacology and Pharmacotherapy

### Topic list (2025 /2026):

Supervisor	Topic
Andrea Orosz, PhD	Investigation of cardiac ventricular repolarization parameters in different clinical conditions
Andrea Orosz, PhD	Cardo-oncology: investigating the cancer therapy-related cardiotoxicity in oncology patients
Norbert Nagy, PhD	Arrhythmogenesis and pharmacological interventions in human heart failure
Norbert Nagy, PhD	Electrophysiological mechanism of sudden cardiac death
habil. Péter Bencsik, PhD, habil. Anikó Görbe, PhD	Investigation of cardioprotective mechanisms against ischemia/reperfusion injury after myocardial infarction
habil. Péter Bencsik, PhD, habil. Anikó Görbe, PhD	Cardioprotection induced by ischemic pre- or postconditioning in acute myocardial infarction and in chronic heart failure models
habil. Péter Bencsik, PhD, habil. Anikó Görbe, PhD	Identification of serum biomarkers for early detection of cardiovascular complications of systemic sclerosis
habil. Péter Bencsik, PhD, habil. Anikó Görbe, PhD	Role of matrix metalloproteinases in adaptation of the heart and in disease models
habil. Péter Bencsik, PhD, habil. Anikó Görbe, PhD	Exploration of microRNA network and target analysis in cardiovascular disease models
habil. Péter Bencsik, PhD, habil. Anikó Görbe, PhD	Cardiocytoprotection in in vitro cell culture models
Zoltán Husti, PhD	Investigation of hidden cardiotoxicity of rofecoxib on rabbit right ventricular papillary muscle
Prof. Róbert Gáspár, PhD	Investigation of drugs affecting the pregnant uterine contractions in rats
Kálmán Szűcs, PhD, Prof. Róbert Gáspár, PhD	Electromyographic investigation of gastrointestinal motility disorders in anesthetized and awake rats
Viktória Venglovecz, DSc	Investigation of exocrine and endocrine interactions in the pancreas under normal and pathological conditions
Viktória Venglovecz, DSc,	Investigations of ion transport processes of esophageal organoids