Department of Biochemistry

Topic list (2022 /2023):

Supervisor	Topic
Dr. Anikó Keller-Pintér PhD	Signal transduction during cell proliferation and differentiation
	Investigation of cell migration in vitro, the role of extracellular vesicles
	Investigation of the molecular background of insulin resistance and glucose uptake of tissues
	Molecular basis of skeletal muscle regeneration
	Investigation of stem cells (satellite cells) of the skeletal muscle
	Therapeutic possibilities for local increase of atrophied skeletal muscle
Dr habil. Csaba Csonka PhD	Cardiovascular effects of metabolic diseases (hyperlipidemia, diabetes, uremia) in experimental models.
	Epigenetic alterations in hypercholesterolemia
Dr habil. Tamás Csont PhD	Molecular mechanisms of cellular damage in stress conditions.
Dr. Renáta Gáspár PhD	Conditioning against myocardial injury.
	Cellular effects of proteoglycans.
	MicroRNAs in the cardiovascular system.
Dr. Márton Pipicz PhD Dr. Márta Sárközy	The role of extracellular matrix components in cardioprotection.
PhD	Echocardiographic characterization of cardiac function and morphology in uremic, hypercholesterolemic, or
Dr. Gergő Szűcs PhD	irradiated rats.
Dr. Virág Demján PhD	The effects of compounds of natural origin on cardiomyocytes.
Márton Szabó	The effects of natural compounds and/or pharmacons on cardiomyocytes in models of prediabetes/diabetes.
	Cardiac side effects of oncotherapy
Dr.habil. Ernő Zádor DSc	The development of transgenic skeletal muscle