

Department of Biochemistry

Topic list (2021 /2022):

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