

SZTE SZAOK

(Institute of Surgical Research)

TDK topics

| Supervisor(s) | Topics |
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| Prof. Dr. Mihály Boros, M.D., Ph.D., D.Sc., professor; Dr. habil. Gabriella Varga, Ph.D., assistant professor, Dr. habil. Dániel Érces, M.D., Ph.D., assistant professor | Protective effects of biological gases in circulatory disorders. |
| Prof. Dr. Mihály Boros, M.D., Ph.D., D.Sc., professor; Dr. Szabolcs Péter Tallósy, Ph.D., assistant professor | Acting mechanism and interplay of biologically active gases in sterile inflammation and <i>in vitro</i> systems. |
| Dr. László Juhász, Ph.D., research fellow, Dr. Attila Rutai, PhD., assistant lecturer | Therapeutic possibilities of the microcirculatory and mitochondrial dysfunction in septic condition. |
| Dr. László Juhász, Ph.D., research fellow | Assessment of mitochondrial function in local and systemic inflammatory diseases. |
| Dr. habil. Andrea Szabó, M.D., Ph.D., associate professor, head of department; Dr. Marietta Zita Poles, Ph.D., research fellow | Assessment and modulation of the biochemical and microcirculatory consequences of urogenital diseases. |
| Dr. habil. Andrea Szabó, M.D., Ph.D., associate professor, head of department; Dr. Marietta Zita Poles, Ph.D., research fellow | Assessment and modulation of the injury of endothelial glycocalyx caused by circulatory disorders. |
| Prof. Dr. Mihály Boros, M.D., Ph.D., D.Sc., professor; Dr. Szabolcs Péter Tallósy, Ph.D., assistant professor | Non-bacterial methane production: molecular mechanism and significance in clinical diagnostics. |
| Dr. habil. Gabriella Varga, Ph.D., assistant professor, Dr. habil. Dániel Érces, M.D., Ph.D., assistant professor | Non-invasive investigation of the lung and gastrointestinal microcirculation. |
| Dr. Szabolcs Péter Tallósy, Ph.D., assistant professor, Dr. Attila Rutai, PhD., assistant lecturer | Formation of neutrophil extracellular traps and therapeutic influence in circulatory failure. |
| Dr. habil. Andrea Szabó, M.D., Ph.D., associate professor, head of department; Dr. Marietta Zita Poles, Ph.D., research fellow | State-of-the-art assessment methods for quantification of surgical skills. |

Dr. Marietta Zita Poles, Ph.D., research fellow; Dr. László Juhász, Ph.D., research fellow

Changes in cerebral mitochondrial function in tryptophan metabolism deficient mice.