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RESEARCH AREA

Oxidative-nitrosative stress, organ function, and cardiovascular function in certain pathological conditions. Currently, we are investigating the effects of polycystic ovary syndrome and vitamin D deficiency/supplementation in a rat model, focusing primarily on the estrous cycle, as well as the functional, morphological, histological, and biochemical changes in the reproductive organs and major blood vessels.

TECHNIQUES AVAILABLE IN THE LAB

- Immunohistochemistry
- microscopy
- image analysis
- Western blot
- statistical analysis

SELECTED PUBLICATIONS

Bányai, B., Répás, C., Miklós, Z., Johnsen, J., Horváth, E.M., **Benko, R.** (2023) Delta 9-tetrahydrocannabinol conserves cardiovascular functions in a rat model of endotoxemia: Involvement of endothelial molecular mechanisms and oxidative-nitrosative stress. **Plos One 18(6): 0287168.**

Bencsics, M., Banyai, B., Ke, H., Csépanyi-Kömi, R., Sasvári, P., Dantzer, F., Hanini, N., **Benkő, R.**, Horváth, E. M. (2023) PARP2 downregulation in T cells ameliorates lipopolysaccharide-induced inflammation of the large intestine. **Front Immunol 14: 1135410.**

Fontányi, Z., Sziva, R. E., Pál, É., Hadjadj, L., Monori-Kiss, A., Horváth, E. M., **Benkő, R.**, Magyar, A., Heinzlmann, A., Benyó, Z., et al. (2021) Vitamin D Deficiency Reduces Vascular Reactivity of Coronary Arterioles in Male Rats. **Current Issues in Molecular Biology 43: 79-92.**

Lajtai, K., Tarszabó, R.*, Banyai, B., Péterffy, B., Gerszi, D., Ruisanchez, É., Sziva, R. E., Korsós-Novák, Á., **Benkő, R.**, Hadjadj, L. et al. (2021) Effect of Vitamin D Status on Vascular Function of the Aorta in a Rat Model of PCOS. **Oxid Med Cell Longev 1: 8865979.**

Merkely, P., Bakos, M., Banyai, B., Monori-Kiss, A., Horváth, E. M., Bognár, J., **Benkő, R.**, Oláh, A., Radovits, T., Merkely, B. et al. (2021) Sex Differences in Exercise-Training-Related Functional and Morphological Adaptation of Rat Gracilis Muscle Arterioles. **Front Physiol 12: 685664.**