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RESEARCH AREA

Sports adaptation of different types of blood vessels and their gender differences in an animal model. Investigation of the hemodynamic effects of vitamin D deficiency and supplementation on adaptation of different types of isolated blood vessels and network adaptation. Gender differences in adaptation to vitamin D deficiency. Vascular effects of testosterone deficiency and hypertension on adaptation of resistance coronary arterioles in animal model. Correlation between vitamin D status and Polycystic Ovary Syndrome. Effect of vitamin D deficiency and supplementation on reproductive functions.

TECHNIQUES AVAILABLE IN THE LAB

- In vitro pressure-arteriography
- Wire-myography
- Histology and immunohistology studies
- Network analysis of the left anterior descending coronary arteries
- Statistical analysis
- Database analyses

SELECTED PUBLICATIONS

Dalloul, H., Hainzl, T., Monori-Kiss, A., Hadjadj, L., Nádasy, G.L., **Török, M.**, Várbíró, Sz. (2022) Vitamin D deficiency and supplementation altered the network of the coronary arteries in a rodent model – in situ video microscopic technique. **Nutrients 14**: 2041.

Várbíró, Sz., Takács, I., Túű, L., Nas, K., Sziva, R.E., Hetthéssy, J.R., **Török, M.** (2022) Effects of Vitamin D on Fertility, Pregnancy and Polycystic Ovary Syndrome – A Review. **Nutrients 14**: 1649.

Vezér, M., Demeter, Á., Szekeres, M., Jósvai, A., Bányai, B., Oláh, A., Balogh, F., Horváth, E.M., Radovits, T., Merkely, B., Ács, N., Nádasy, G.L., **Török, M.**, Várbíró, Sz. (2022) Sex differences in rat renal arterial responses following exercise training. **American Journal of Physiology: Heart and Circulatory Physiology 322**: H310-H318.

Merkely, P., Bakos, M., Bányai, B., Monori-Kiss, A., Horváth, E.M., Bognár, J., Benkő, R., Oláh, A., Radovits, T., Merkely, B., Ács, N., Nádasy, G.L., **Török, M.**, Várbíró, Sz. (2021) Sex differences in exercise-training-related functional and morphological adaptation of rat gracilis muscle arterioles. **Frontiers in Physiology 12**: 685664.

Török, M., Merkely, P., Monori-Kiss, A., Horváth, E.M., Sziva, R.E., Péterffy B., Jósvai, A., Sayour, A.A., Oláh, A., Radovits, T., Merkely, B., Nándor, Á., Nádasy, L.Gy., Várbíró, Sz. (2021) Network analysis of the left anterior descending coronary arteries in swim-trained rats by an in situ video-microscopic technique. **Biology of Sex Differences 12**: 17.

Jósvai, A., **Török, M.**, Mátrai, M., Hetthéssy, J., Monori-Kiss, A., Makk, J., Székács, B., Nádasy, L.Gy., Várbíró, Sz. (2020) Effects of Testosterone Deficiency and Angiotensin II-Induced Hypertension on the Biomechanics of Intramural Coronary Arteries. **Journal of Sexual Medicine. 17**: 2322-2330.