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RESEARCH AREA

The role of epigenetics, particularly DNA methylation, in development, function and various pathomechanisms of liver.

TECHNIQUES AVAILABLE IN THE LAB

- animal handling and treatment
- PCR
- real-time qPCR
- western blot
- Reduced Representation Bisulfite Sequencing
- RNAseq
- histology

SELECTED PUBLICATIONS

Kokas, M., Budai, A., Kádár, A., Mozaffaritabar, S., Zhou, L., Téglás, T., Orova, R. S., Gáspár, D., Németh, K., **Toth, D. M.**, Sayour, N. V., Kovácsházi, C., Xue, A., Szatmári, R. Z., Törőcsik, B., Máthé, D., Kovács, N., Szigeti, K., Nagy, P., Szatmári, I., ... Ambrus, A. (2025). Microgliosis, neuronal death, minor behavioral abnormalities and reduced endurance performance in alpha-ketoglutarate dehydrogenase complex deficient mice. **Redox Biol** **85**: 103743.

Tóth, D. M., Szeri, F., Ashaber, M., Muazu, M., Székvölgyi, L., & Arányi, T. (2025). Tissue-specific roles of de novo DNA methyltransferases. **Epigenetics Chromatin** **18**(1): 5.

Tóth, D. M., Ocskó, T., Balog, A., Markovics, A., Mikecz, K., Kovács, L., Jolly, M., Bukiej, A. A., Ruthberg, A. D., Vida, A., Block, J. A., Glant, T. T., & Rauch, T. A. (2019). Amelioration of Autoimmune Arthritis in Mice Treated With the DNA Methyltransferase Inhibitor 5'-Azacytidine. **Arthritis Rheumatol** **71**(8): 1265–1275.

Ocskó, T., **Tóth, D. M.**, Hoffmann, G., Tubak, V., Glant, T. T., & Rauch, T. A. (2018). Transcription factor Zbtb38 downregulates the expression of anti-inflammatory IL1r2 in mouse model of rheumatoid arthritis. **Biochim Biophys Acta Gene Regul Mech** **1861**(11): 1040–1047.