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RESEARCH AREA

Studies on endocrine tumors, especially adrenal and neuroendocrine tumors. In the focus, non-coding RNAs (especially microRNAs), their pathogenic roles and utility as biomarkers are examined. Both tissue and biofluid samples are used. As biomarkers, markers of malignancy and prognosis are searched for. The clinical relevance of these studies is underlined by the diagnostic difficulties related to the adrenal and neuroendocrine tumors both in histology and clinical diagnostics.

TECHNIQUES AVAILABLE IN THE LAB

Isolation of nucleic acids (RNA, DNA)
Real-time PCR techniques
Next generation sequencings
Studies on protein expression (Western-blot)
Tissue culture
Database search
Article writing

SELECTED PUBLICATIONS

- Turai, P.I., Herold, Z., Nyíró, G., Borka, K., Micsik, T., Tóke, J., Szücs, N., Tóth, M., Patócs, A., **Igaz, P.** (2022) Tissue miRNA Combinations for the Differential Diagnosis of Adrenocortical Carcinoma and Adenoma Established by Artificial Intelligence. **Cancers** **14**: 895.
- Decmann, A., Perge, P., Nyíró, G., Darvasi, O., Likó, I., Borka, K., Micsik, T., Tóth, Z., Bancos, I., Pezzani, R., Iacobone, M., Patócs, A., **Igaz, P.** (2018) MicroRNA expression profiling in adrenal myelolipoma. **J Clin Endocrinol Metab**: **103**: 3522-3530.
- Perge, P., Butz, H., Pezzani, R., Bancos, I., Nagy, Z., Pálóczi, K., Nyíró, G., Decmann, A., Pap, E., Luconi, M., Mannelli, M., Buzás, E.I., Tóth, M., Boscaro, M., Patócs, A., **Igaz, P.** (2017) Evaluation and diagnostic potential of circulating exosomal microRNAs in adrenocortical tumors. **Scientific Reports** **7**: 5474.
- Perge, P., Nagy, Z., Decmann, Á., Igaz, I., **Igaz, P.** (2017) Potential relevance of microRNAs in inter-species epigenetic communication, and implications for disease pathogenesis. **RNA Biology** **14**: 391-401.
- Szabó, P.M., Tamási, V., Molnár, V., Andrásfalvy, M., Tömböl, Z., Farkas, R., Kövesdi, K., Patócs, A., Tóth, M., Szalai, C., Falus, A., Rácz, K., **Igaz, P.** (2010) Meta-analysis of adrenocortical tumor genomics data: novel pathogenic pathways revealed. **Oncogene** **29**: 3163-3172.
- Tömböl, Z., Szabó, P.M., Molnár, V., Wiener, Z., Tölgyesi, G., Horányi, J., Riesz, P., Reismann, P., Patócs, A., Likó, I., Gaillard, R.C., Falus, A., Rácz, K., **Igaz, P.** (2009) Integrative molecular-bioinformatics study of human adrenocortical tumors: microRNA, tissue specific target prediction and pathway analysis. **Endocrine-Related Cancer** **16**: 895-906.