

Research Group of Dr. Peter Igaz MD MSc PhD
at the
2nd Department of Medicine
Faculty of Medicine, Semmelweis University
Director: Prof. Dr. Károly Rác MD MSc PhD

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Major research interests:

- i. Functional genomics and bioinformatics analysis of adrenocortical (hormonally inactive incidentalomas, aldosterone- and cortisol-producing benign tumors, adrenocortical cancer) and adrenomedullary tumors (pheochromocytoma).
- ii. Genetics and clinical features of hereditary endocrine tumor syndromes (multiple endocrine neoplasia type 1 and 2, von Hippel Lindau disease, paraganglioma syndromes)
- iii. Immune-neuroendocrine interactions.

Group members:

Dr. Peter Igaz MD MSc PhD
Dr. Peter M. Szabó MD, PhD student
Dr. Zsófia Tömböl MD, PhD student
Adrienn Zsippai, PhD student
Diána Szabó, PhD student

Recent major publications:

1. Tömböl Z, Eder K, Kovács A, Szabó PM, Kulka J, Likó I, Zalatnai A, Rác G, Tóth M, Patócs A, Falus A, Rác K, **Igaz P.**
MicroRNA expression profiling in benign (sporadic and hereditary) and recurring adrenal pheochromocytomas. *Mod Pathol.* **2010 Sep 3.** [Epub ahead of print] PubMed PMID: 20818339.
IF (2009): 4.406
2. Szabó D, Zsippai A, Bendes M, Tömböl Z, Szabó PM, Rác K, **Igaz P.**
[Pathogenesis of adrenocortical cancer]. *Orv Hetil.* **2010 Jul 18;**151(29):1163-70.
Review. Hungarian. PubMed PMID: 20591784.
3. Tömböl Z, Szabó PM, Patócs A, Rác K, **Igaz P.**
Differences in MicroRNA expression profiles of adrenocortical tumors--letter. *Clin Cancer Res.* 2010 May 15;16(10):2915; author reply 2915-6. Epub **2010 May 11.** PubMed PMID: 20460475.
IF (2009): 6.747

4. Szabó PM, Tamási V, Molnár V, Andrásfalvy M, Tömböl Z, Farkas R, Kövesdi K, Patócs A, Tóth M, Szalai C, Falus A, Rácz K, **Igaz P**.
Meta-analysis of adrenocortical tumour genomics data: novel pathogenic pathways revealed.
Oncogene. **2010 May** 27;29(21):3163-72. Epub 2010 Mar 22.
PubMed PMID: 20305693.
IF (2009): 7.135
5. **Igaz P**.
MEN1 clinical background.
Adv Exp Med Biol. **2009**;668:1-15. PubMed
PMID: 20175448.
7. Gergics P, Patocs A, Toth M, **Igaz P**, Szucs N, Liko I, Fazakas F, Szabo I, Kovacs B, Glaz E, Racz K.
Germline VHL gene mutations in Hungarian families with von Hippel-Lindau disease and patients with apparently sporadic unilateral pheochromocytomas.
Eur J Endocrinol. **2009 Sep**;161(3):495-502. Epub 2009 Jul 2.
PubMed PMID: 19574279.
IF: 3.539
8. Szabó PM, Wiener Z, Tömböl Z, Kovács A, Pócza P, Horányi J, Kulka J, Riesz P, Tóth M, Patócs A, Gaillard RC, Falus A, Rácz K, **Igaz P**.
Differences in the expression of histamine-related genes and proteins in normal human adrenal cortex and adrenocortical tumors.
Virchows Arch. **2009 Aug**;455(2):133-42. Epub 2009 Jul 1.
PubMed PMID: 19568768.
IF: 2.305
9. Tömböl Z, Szabó PM, Molnár V, Wiener Z, Tölgyesi G, Horányi J, Riesz P, Reismann P, Patócs A, Likó I, Gaillard RC, Falus A, Rácz K, **Igaz P**.
Integrative molecular bioinformatics study of human adrenocortical tumors: microRNA, tissue-specific target prediction, and pathway analysis.
Endocr Relat Cancer. **2009 Sep**;16(3):895-906. Epub 2009 Jun 22. PubMed PMID: 19546168.
IF: 4.282
10. **Igaz P**, Patócs A, Rácz K.
Uncommon MEN2A phenotype in a patient with a RET protooncogene exon 10, codon 611 mutation. [letter]
Clin Endocrinol (Oxf). **2009 Aug**;71(2):304-5. PubMed PMID: 19018781.
IF: 3.201

- 11. Igaz P, Tömböl Z, Szabó PM, Likó I, Rácz K.**
Steroid biosynthesis inhibitors in the therapy of hypercortisolism: theory and practice.
Curr Med Chem. **2008**;15(26):2734-47. Review. PubMed PMID: 18991633.
IF: 4.823
- 12. Igaz P, Wiener Z, Szabó P, Falus A, Gaillard RC, Horányi J, Rácz K, Tulassay Z.**
Functional genomics approaches for the study of sporadic adrenal tumor pathogenesis: clinical implications.
J Steroid Biochem Mol Biol. 2006 Oct;101(2-3):87-96. Epub **2006 Aug 7**. Review. PubMed PMID: 16891114.
IF: 2.825