



UNIVERSITÄT
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Medizinische Fakultät



SFB 1052
Obesity Mechanisms

Contact:

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Master thesis/ MD Thesis

On the subject: „Analyzing gut-adipose tissue cross talk in primary epiploic adipose tissue cell culture“

Human adipose tissue is a metabolically active endocrine organ. In our group we focus on differences in adipose tissue distribution and the characterization and genetics of various adipose tissues. Recently, by performing Transcriptome and Proteome analysis, we identified epiploic adipose tissue as a novel player in pathophysiological processes including insulin resistance and diabetes. Results suggest a gatekeeper and crosstalk function which should be analyzed further in a cell culture approach utilizing mature human adipocytes.

Methods & tasks include:

- Primary adipocyte cell culture
- Characterization of epiploic adipocytes
- Adipocyte stimulation with, e.g. LPS, bacterial growth medium
- Western Blot, ELISA
- Real Time PCR
- Immunohistochemistry

Supervisor: Prof. Peter Kovacs