

1. Institution

Institute of Animal Physiology, Slovak Academy of Sciences, Soltessovej 4-6, Kosice, Slovakia
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2. Principal investigator and contact person

Štefan Čikoš, Dr, PhD, cikos@saske.sk

3. Key personnel

NAME	EMAIL	RESEARCH AREA DETAILS
Soňa Czikkova, M.Sc.	czikkova@saske.sk	gene expression analyses

4. Research profile

Identification and characterization of G protein-coupled receptors. Cell receptors and signaling in preimplantation embryo.

5. Key technologies and tools

Analysis of gene expression at mRNA (real-time RT-PCR) and protein (Western blot analysis, IHC) level, gene cloning, in vitro cell culture.

6. Selected publications (max. 5)

Čikoš Štefan, Burkuš Ján, Bukovská Alexandra, Fabian Dušan, Rehák Pavol, Koppel Juraj: Expression of adiponectin receptors and effects of adiponectin isoforms in mouse preimplantation embryos. *Hum Reprod*, 2010, 25, 2247-2255

Čikoš Štefan, Rehák Pavol, Czikková Soňa, Veselá J, Koppel J: Expression of adrenergic receptors in mouse preimplantation embryos and ovulated oocytes. *Reproduction*, 133, 2007, 1139-1147

Čikoš Štefan, Bukovská Alexandra, Koppel Juraj: Relative quantification of mRNA: comparison of methods currently used for real-time PCR data analysis. *BMC Mol Biol*, 8 :113, 2007 , doi: 10.1186/1471-2199/8/113

Čikoš Štefan, Veselá Jarmila, Il'ková Gabriela, Rehák Pavol, Czikková Soňa, Koppel Juraj: Expression of beta adrenergic receptors in mouse oocytes and preimplantation embryos. *Mol Reprod Dev*, 71, 2005, 145-153

Čikoš Štefan, Gregor Paul, Koppel Juraj: Sequence and tissue distribution of a novel G - protein – coupled receptor expressed prominently in human placenta. *Biochem. Biophys. Res. Commun.*, 256, 1999, 352-356