

Zoznam najvýznamnejších publikácií

SIROTKIN, A.V. - NITRAY, J. Steroid hormones regulate cAMP and cGMP production by porcine granulosa cells in vitro.

"J. Steroid Biochem. Molec. Biol." 46(5):573-577 (1993).

SIROTKIN, A.V. - NITRAY, J., KOLENA, J. - BULLA, J. Cooperation between LH-RH and LH in the direct action on the ovary: LH-RH stimulation of LH-hCG receptors, basal and LH-induced cAMP and cGMP release by porcine granulosa cells in vitro.

"Cellular Signalling" 6:135-140 (1994).

SIROTKIN, A.V. - MLYNCEK, M. - LAURINCIK, J. - BULLA, J. - HETENYI, L. The ability of steroid hormones to control cAMP and cGMP production by human granulosa cells in culture.

"Cellular Signalling" 7:61-65 (1995)

SIROTKIN, A.V. - LUCK, M.R. Potential leukocyte attractants on the peri-ovulatory ovary.

"Reprod.Nutr.Dev." 35:675-683 (1995)

SIROTKIN, A.V. Inter-relationships between nonapeptide hormones and cyclic nucleotides within cultured porcine granulosa cells.

"J. Endocrinol." 150:343-348 (1996).

SIROTKIN, A.V. - SCHAEFFER, H.-J. Direct regulation of mammalian reproductive organs by serotonin and melatonin.

"J. Endocrinol." 154:1-5 (1997).

SIROTKIN, A.V. - MAKAREVICH, A.V. - KOTWICA, J. - MARNET, P.-G. - KWON, H.B. -

HETENYI, L. Isolated porcine ovarian follicles as a model for the study of hormone and growth factor action on ovarian secretory activity.

"J. Endocrinology" 159:313-321 (1998).

SIROTKIN, A.V. - MAKAREVICH, A.V. GH regulates secretory activity and apoptosis in cultured bovine granulosa cells through the activation of the cAMP/protein kinase A system.

"Journal of Endocrinology" 163:317-327 (1999).

SIROTKIN, A.V. - MERTIN, D. - SUVEGOVÁ, K. - MAKAREVICH, A.V. - GENIESER, H.-G. - LUCK, M.R. - OSADCHUK, L.V. Effect of restricted food intake on production, catabolism and effects of IGF-I and cyclic nucleotides in cultured ovarian tissue of domestic nutria (*Myocastor coypus*).

"General and Comparative Endocrinology" 117:207-217 (2000)

SIROTKIN, A.V. – DUKESOVÁ, J. - MAKAREVICH, A.V. – KÚBEK, A. – BULLA, J. Evidence that growth factors IGF-I, IGF-II and EGF can stimulate nuclear maturation of porcine oocytes via intracellular protein kinase A.

"Reproduction, Nutrition, Development" 40:559-569 (2000).

SIROTKIN, A.V. – MAKAREVICH, A.V. – CORKINS, M.R. – KOTWICA, J. – BULLA, J. The transfection-induced overexpression of IGF-binding protein-4 affects the secretory activity of porcine ovarian granulosa cells and their response to hormones and IGF-I.

"Journal of Molecular Endocrinology".26:241-248 (2001).

SIROTKIN, A.V. – MAKAREVICH, A.V. Growth hormone can regulate functions of porcine ovarian granulosa cells through the cAMP/protein kinase A system.

"Animal Reproduction Science" 70:111-126 (2002).

SIROTKIN, A.V. – FLORKOVIČOVÁ, I. – MAKAREVICH, A.V. – SCHAEFFER, H.-J. – KOTWICA, J. – MARNET, P.-G. – SANISLO, P. Oxytocin mediates some effects of insulin-like growth factor-I on porcine ovarian follicles.

„Journal of Reproduction and Development“ 49: 141-149 (2003).

- SIROTKIN, A.V. – SANISLO, P. – SCHAEFFER, H.-J. – FLORKOVICOVA, I. – KOTWICA, J. – BULLA, J. – HETENYI, L. Thrombopoietin regulates proliferation, apoptosis, secretory activity and intracellular messengers in porcine ovarian follicular cells: involvement of protein kinase A. „Journal of Endocrinology“ 183: 595-604 (2004).
- SIROTKIN, A.V. Control of reproductive processes by growth hormone: extra- and intracellular mechanisms. „The Veterinary Journal“, 170: 307-317 (2005).
- SIROTKIN, A.V. – MLYNČEK, M. – KOTWICA, J. – MAKAREVICH, A.V. – FLORKOVIČOVÁ, I. – HETÉNYI, L. Leptin directly controls secretory activity of human ovarian granulosa cells: possible inter-relationships with IGF/IGFBP system. “Hormone Research” 64:198-202 (2005).
- SIROTKIN, A.V. – GROSSMANN, R. – MARIA-PEON, M.T. – ROA, J. – TENA- SEMPERE, M. – KLEIN, S. Novel expression and functional role of ghrelin in chicken ovary. “Molecular and Cellular Endocrinology” 257-258:15-25 (2006).
- SIROTKIN, A.V. – GROSSMANN, R. The role of ghrelin and some intracellular mechanisms in controlling the secretory activity of chicken ovarian cells. “Comp. Biochem. Physiol. Part A. Mol. Integr. Physiol.” 147:239-246 (2007)
- SIROTKIN, A.V. - CHRENKOVÁ, M. – NITRAYOVÁ, S. – PATRAŠ, P. Restricted food intake promotes accumulation of proliferation- apoptosis- and anti-apoptotic substances in rat testicular cells. „Nutrition Research“ 27: 705-709 (2007)
- SIROTKIN, A.V. - CHRENKOVÁ, M. – NITRAYOVÁ, S. – PATRAŠ, P. – DARLAK, K. – VALENZUELA, F. – PINILLA, L. – TENA-SEMPERE, M. Effect of chronic food restriction and treatment with leptin and ghrelin on different reproductive parameters of male rats. „Peptides“ 29:1362-1368 (2008)
- MÉSZÁROSOVÁ, M. – SIROTKIN, A.V. – GROSSMANN, R. – DARLAK, K. – VALENZUELA, F. The effect of obestatin on porcine ovarian granulosa cells. „Animal Reproduction Science“ 108:196-207 (2008)
- SIROTKIN, A.V. – MLYNČEK, M. – MAKAREVICH, A.V. – FLORKOVIČOVÁ, I. – HETÉNYI, L. Leptin affects proliferation-, apoptosis- and protein kinase A-related peptides in human ovarian granulosa cells.. „Physiol. Res.“57:437-442 (2008)
- BENČO, A. – SIROTKIN, A.V. – VAŠIČEK, D. – PAVLOVÁ, S. – ZEMANOVÁ, J. – KOTWICA, J. – DARLAK, K. – VALENZUELA, F. Involvement of transcription factor STAT1 in the regulation of porcine ovarian granulosa cell functions treated and not treated with ghrelin. “Reproduction” 138:553-560 (2009).
- SIROTKIN, A.V. – OVCHARENKO, D. – MLYNCEK, M. Identification of protein kinases that control ovarian hormone release by selective siRNAs. „J. Mol. Endocrinol.“ 44:45-53 (2010).
- KOLESÁROVÁ, A. – ROYCHOUDHURY, S.- SLIVKOVÁ, J. – SIROTKIN, A. – CAPCAROVÁ, M. – MASSÁNYI, P. In vitro study of the effect of lead and mercury on porcine ovarian granulosa cells. „Journal of Environmental Science and Health“ Part A. 45: (2010).
- SIROTKIN A.V. Effect of two types of stress (heat shock/high temperature and malnutrition/serum deprivation) on porcine ovarian cell functions and their response to hormones. „J. Exp. Biology“ 213:2125-2130 (2010).
- SIROTKIN, A.V. - LAUKOVÁ, M. – OVCHARENKO, D. - MLYNČEK, M. Identification of microRNAs controlling human ovarian cell proliferation and apoptosis. „Journal of Cellular Physiology.“ 223:49-56 (2010).

SIROTKIN, A.V. – CHRENEK, P. – CHADIO, S. – XYLOURI, E. – FOTOPOULOUY, H. – MAKAREVICH, A.V. Phosphodiesterase inhibitor 3-isobutyl/methyl-xanthine affects rabbit ovaries and oviduct. „European Journal of Pharmacology“ 643:145-151 (2010).

SIROTKIN, A.V. Protein kinases: signalling molecules controlling ovarian functions „The International Journal of Biochemistry & Cell Biology“ 42:1927-1930 (2010).

SIROTKIN, A.V. – CHRENEK, P. – PIVKO, J. – BALAZI, A. – MAKAREVICH, A.V. Phosphodiesterase inhibitor 3-isobutyl-1-methyl-xanthine affects ovarian morphology and stimulates reproduction in rabbits. „European Journal of Inflammation“ 8: 173-179 (2010).

SIROTKIN, A.V. – BEZÁKOVÁ, A. – LAURINČIK, J. – MATEJOVIČOVÁ, B. Involvement of the metabolic hormones leptin, ghrelin, obestatin, IGF-I and of MAP kinase in control of porcine oocyte maturation. „Animal“ 5: 94-99 (2011).

SIROTKIN, A.V. – BAUER, M. Heat shock proteins in porcine ovary: synthesis, accumulation and regulation by stress and hormones. „Cell Stress and Chaperones“ 16:379-387 (2011).

KOLESAROVA, A. – CAPCAROVA, M. – SIROTKIN, A.V. - MEDVEDOVA, M. — KOVACIK, J. In vitro assessment of silver effect effect on porcine ovarian granulosa cells. „Journal of Trace Elements in Medicine and Biology“ 25:166-170 (2011).

SIROTKIN, A.V. „Regulators of Ovarian Functions“ Nova Science Publishers, Inc., New York, USA. ISBN 978-1-61668-040-4. 194 p. (2011)

SIROTKIN, A.V. – BENČO, A. – TANDLMAJEROVÁ, A. – VAŠIČEK, D. Involvement of transcription factor p53 and leptin in control of porcine ovarian granulosa cell functions. „Cell Proliferation“ 45:9-14 (2012).

KOLESAROVA, A. – BAKOVA, Z. - CAPCAROVA, M. – GALIK, B. – JURACEK, M. – SIMKO, M. – TOMAN, R. – SIROTKIN, A. V. Consumption of bee pollen affects rat ovarian functions. „Journal of Animal Physiology and Animal Nutrition“ (2012)

CHRENEK, P. – SIROTKIN, A.V. Transgenesis.

In: „Animal Biotechnology II“ (J. Laurinčik ed.). Monography. FPV UKF in Nitra, Nitra, Slovakia, pp.61-93 (2012).

SIROTKIN, A.V. – LUCK, M.R. The Ovary and Ovarian Cycle.

In: “Embryotechnology” (J. Laurinčik ed.). Monography. FPV UKF in Nitra, Nitra, Slovakia, pp.5-15 (2012).

SIROTKIN, A.V. – LUCK, M.R. Oocytes and their Maturation.

In: “Embryotechnology” (J. Laurinčik ed.). Monography. FPV UKF in Nitra, Nitra, Slovakia, pp.34-43 (2012).

SIROTKIN, A.V. – LUCK, M.R. Regulation of Oocyte Maturation.

In: “Embryotechnology” (J. Laurinčik ed.). Monography. FPV UKF in Nitra, Nitra, Slovakia, pp.43-50 (2012).

SIROTKIN, A.V. – PAVLOVA, S. – TENA-SEMPERE, M. – GROSSMANN, R. – Jimenez , M.R. – RODRIGUEZ, J.M.C. – VALENYUELA, F.

Food restriction, ghrelin, its antagonist and obestatin control expression of ghrelin and its receptor in chicken hypothalamus and ovary.

„Comparative Biochemistry and Physiology“ . Part. A. 164:141-153 (2013)