

Publications for Christopher O'Neill

2017

Rollo, C., Li, Y., Jin, X., O'Neill, C. (2017). Histone 3 lysine 9 acetylation is a biomarker of the effects of culture on zygotes. *Reproduction*, 154(4), 375-385. [More Information]

Li, Y., O'Neill, C. (2017). Immunological Staining of Global Changes in DNA Methylation in the Early Mammalian Embryo. *Methods in Molecular Biology*, 1605, 161-169. [More Information]

Celik-Uzuner, S., Li, Y., Peters, L., O'Neill, C. (2017). Measurement of global DNA methylation levels by flow cytometry in mouse fibroblasts. *In Vitro Cellular & Developmental Biology. Animal*, 53(1), 1-6. [More Information]

Ganeshan, L., Jin, X., O'Neill, C. (2017). The induction of tumour suppressor protein P53 limits the entry of cells into the pluripotent inner cell mass lineage in the mouse embryo. *Experimental Cell Research*, 358(2), 227-233. [More Information]

2016

Li, Y., Seah, M., O'Neill, C. (2016). Mapping global changes in nuclear cytosine base modifications in the early mouse embryo. *Reproduction*, 151(2), 83-95. [More Information]

Celik-Uzuner, S., O'Neill, C. (2016). The sensitivity of 5-formylcytosine to doxorubicin regardless of DNA damage. *Turkish Journal of Biology*, 40(6), 1251-1257. [More Information]

2015

Salvaing, J., Li, Y., Beaujean, N., O'Neill, C. (2015). Determinants of valid measurements of global changes in 5'-methylcytosine and 5'-hydroxymethylcytosine by immunolocalisation in the early embryo. *Reproduction, Fertility and Development*, 27(5), 755-764. [More Information]

Bertoldo, M., Locatelli, Y., O'Neill, C., Mermillod, P. (2015). Impacts of and interactions between environmental stress and epigenetic programming during early embryo development. *Reproduction, Fertility and Development*, 27(8), 1125-1136. [More Information]

O'Neill, C., Li, Y., Jin, X. (2015). Survival Signalling in the Preimplantation Embryo. In Henry J. Leese, Daniel R. Brison (Eds.), *Cell Signaling During Mammalian Early Embryo Development*, (pp. 129-149). New York: Springer Science+Business Media. [More Information]

Celik, S., Li, Y., O'Neill, C. (2015). The effect of DNA damage on the pattern of immune-detectable DNA methylation in

mouse embryonic fibroblasts. *Experimental Cell Research*, 339(1), 20-34. [More Information]

2014

Fenelon, J., Shaw, G., O'Neill, C., Frankenberg, S., Renfree, M. (2014). Paf receptor expression in the marsupial embryo and endometrium during embryonic diapause. *Reproduction*, 147(1), 21-31. [More Information]

Jin, X., O'Neill, C. (2014). Systematic analysis of the factors that adversely affect the rate of cell accumulation in mouse embryos during their culture in vitro. *Reproductive Biology and Endocrinology*, 12(1), 1-10. [More Information]

Wong, J., Jack, M., Li, Y., O'Neill, C. (2014). The Epigenetic Bivalency of Core Pancreatic b-Cell Transcription Factor Genes within Mouse Pluripotent Embryonic Stem Cells Is Not Affected by Knockdown of the Polycomb Repressive Complex 2, SUZ12. *PLoS One*, 9(5), 1-12. [More Information]

Celik, S., Li, Y., O'Neill, C. (2014). The Exit of Mouse Embryonic Fibroblasts from the Cell-Cycle Changes the Nature of Solvent Exposure of the 5'-Methylcytosine Epitope within Chromatin. *PLoS One*, 9(4), 1-12. [More Information]

Jin, X., O'Neill, C. (2014). The regulation of the expression and activation of the essential ATF1 transcription factor in the mouse preimplantation embryo. *Reproduction*, 148(2), 147-157. [More Information]

2013

Li, Y., O'Neill, C. (2013). 5'-methylcytosine and 5'-hydroxymethylcytosine Each Provide Epigenetic Information to the Mouse Zygote. *PLoS One*, 8(5), 1-9. [More Information]

O'Neill, C. (2013). Lessons from zebrafish on reprogramming the epigenetic code after fertilisation. *Asian Journal of Andrology*, 15(5), 582-583. [More Information]

2012

Li, Y., O'Neill, C. (2012). Persistence of Cytosine Methylation of DNA following Fertilisation in the Mouse. *PLoS One*, 7(1), 1-11. [More Information]

Vasica, G., O'Neill, C., Sidhu, S., Sywak, M., Reeve, T., Delbridge, L. (2012). Reoperative surgery for bilateral multinodular goitre in the era of total thyroidectomy. *British Journal of Surgery*, 99(5), 688-692. [More Information]

Information]

O'Neill, C., Li, Y., Jin, X. (2012). Survival signaling in the preimplantation embryo. *Theriogenology*, 77(4), 773-784. [More Information]

Li, A., Ganeshan, L., O'Neill, C. (2012). The Effect of Trp53 Gene-Dosage and Parent-of-Origin of Inheritance on Mouse Gamete and Embryo Function In Vitro. *Biology Of Reproduction*, 86(6), 1-6. [More Information]

Gao, S., Jack, M., O'Neill, C. (2012). Towards Optimising the Production of and Expression from Polycistronic Vectors in Embryonic Stem Cells. *PLoS One*, 7(11), 1-13. [More Information]

2011

O'Neill, C. (2011). Analysis of embryo-derived factors as markers of developmental potential and viability. In D. K. Gardner, B. R. M. B. Rizk and T. Falcone (Eds.), *Human assisted reproductive technology: future trends in laboratory and clinical practice*, (pp. 278-288). Cambridge: Cambridge University Press. [More Information]

Mu, X., Jin, X., Farnham, M., Li, Y., O'Neill, C. (2011). DNA Damage-Sensing Kinases Mediate the Mouse 2-Cell Embryo's Response to Genotoxic Stress. *Biology Of Reproduction*, 85(3), 524-535. [More Information]

Jin, X., O'Neill, C. (2011). Regulation of the Expression of Proto-Oncogenes by Autocrine Embryotropins in the Early Mouse Embryo. *Biology Of Reproduction*, 84(6), 1216-1224. [More Information]

2010

Beardsley, A., Li, Y., O'Neill, C. (2010). Characterization of a diverse secretome generated by the mouse preimplantation embryo in vitro. *Reproductive Biology and Endocrinology*, 8(71), 1-10. [More Information]

O'Neill, C. (2010). Methods of Assessing Embryo Viability. *Patent No. 1847595, 602007004143*. Germany.

Jin, X., O'Neill, C. (2010). The Presence and Activation of Two Essential Transcription Factors (cAMP Response Element-Binding Protein and cAMP-Dependent Transcription Factor ATF1) in the Two-Cell Mouse Embryo. *Biology Of Reproduction*, 82(2), 459-468. [More Information]

Ganeshan, L., Li, A., O'Neill, C. (2010). Transformation-related protein 53 expression in the early mouse embryo compromises preimplantation embryonic development by preventing the formation of a proliferating inner cell mass. *Biology Of Reproduction*, 83(6), 958-964. [More Information]

2009

Li, Y., O'Neill, C., Day, M. (2009). Activation of a Chloride Channel by a Trophic Ligand Is Required for Development of the Mouse Preimplantation Embryo In Vitro. *Biology Of*

Reproduction, 81(4), 759-767. [More Information]

Jin, X., Chandrakanthan, V., Morgan, H., O'Neill, C. (2009). Preimplantation embryo development in the mouse requires the latency of TRP53 expression, which is induced by a ligand-activated PI3 kinase/AKT/MDM2-mediated signaling pathway. *Biology Of Reproduction*, 80(2), 286-294. [More Information]

2008

O'Neill, C. (2008). Phosphatidylinositol 3-kinase signaling in mammalian preimplantation embryo development. *Reproduction*, 136(2), 147-156. [More Information]

Morgan, H., Jin, X., Li, A., Whitelaw, E., O'Neill, C. (2008). The culture of zygotes to the blastocyst stage changes the postnatal expression of an epigenetically labile allele, agouti viable yellow, in mice. *Biology Of Reproduction*, 79(4), 618-623. [More Information]

O'Neill, C. (2008). The potential roles for embryotrophic ligands in preimplantation embryo development. *Human Reproduction Update*, 14(3), 275-288. [More Information]

2007

Mahsoudi, B., Li, A., O'Neill, C. (2007). Assessment of the long-term and transgenerational consequences of perturbing preimplantation embryo development in mice. *Biology Of Reproduction*, 77(5), 889-896. [More Information]

Li, Y., Day, M., O'Neill, C. (2007). Autocrine activation of ion currents in the two-cell mouse embryo. *Experimental Cell Research*, 313(13), 2786-2794. [More Information]

Jin, X., O'Neill, C. (2007). cAMP-responsive element-binding protein expression and regulation in the mouse preimplantation embryo. *Reproduction, Fertility and Development*, 13(4), 667-675. [More Information]

Li, A., Chandrakanthan, V., Chami, O., O'Neill, C. (2007). Culture of zygotes increases p53 expression in B6 mouse embryos, which reduces embryo viability. *Biology Of Reproduction*, 76(3), 362-367. [More Information]

Li, Y., Chandrakanthan, V., Day, M., O'Neill, C. (2007). Direct evidence for the action of phosphatidylinositol (3,4,5)-trisphosphate-mediated signal transduction in the 2-cell mouse embryo. *Biology Of Reproduction*, 77(5), 813-821. [More Information]

Chandrakanthan, V., Chami, O., Stojanov, T., O'Neill, C. (2007). Variable expressivity of the tumour suppressor protein TRP53 in cryopreserved human blastocysts. *Reproductive Biology and Endocrinology*, 5(17 October 2007), 39- 1-39 - 6. [More Information]

2006

Chandranathan, V., Li, A., Chami, O., O'Neill, C. (2006). Effects of in vitro fertilization and embryo culture on TRP53 and Bax expression in B6 mouse embryos. *Reproductive Biology and Endocrinology*, 4(1), 61-61. [More Information]

2005

O'Neill, C. (2005). The role of paf in embryo physiology. *Human Reproduction Update*, 11(3), 215-228. [More Information]

2004

Chami, O., Evans, G., O'Neill, C. (2004). Components Of A Platelet-Activating Factor-Signaling Loop Are Assembled In The Ovine Endometrium Late In The Estrous Cycle. *American Journal of Physiology - Endocrinology and Metabolism*, 287(2), E233-E240. [More Information]

Lu, D., Chandranathan, V., Cahana, A., Ishii, S., O'Neill, C. (2004). Trophic Signals Acting Via Phosphatidylinositol-3 Kinase Are Required For Normal Pre-Implantation Mouse Embryo Development. *Journal of Cell Science*, 117(8), 1567-1576. [More Information]

2003

Cahana, A., Jin, X., Reiner, O., Wynshaw-Boris, A., O'Neill, C. (2003). A study of the nature of embryonic lethality in LIS1-I-mice. *Molecular Reproduction and Development*, 66(2), 134-142. [More Information]

Lu, D., Li, Y., Bathgate, R., Day, M., O'Neill, C. (2003). Ligand-activated signal transduction in the 2-cell embryo. *Biology Of Reproduction*, 69(1), 106-116. [More Information]

2001

Stojanov, T., Chami, O., Li, A., O'Neill, C., Wu, C., Ishii, S., Shimizu, T., Stocker, R. (2001). Evidence of the Autocrine induction of capacitation of mammalian spermatozoa. *Journal of Biological Chemistry*, 276, 26962-26968. [More Information]

O'Neill, C., Stojanov, T. (2001). In vitro fertilization causes epigenetic modifications to the onset of gene expression from the zygotic genome in mice. *Biology Of Reproduction*, 64, 696-705. [More Information]