

ORIGINAL RESEARCH PUBLICATIONS IN PEER-REVIEWED JOURNALS:

1. Jiang FL, He YZ, Jiang H and **Lu Q**. A case of successful propagation of Black Muntjac (*Muntiacus crinifrons*) in captivity. *Proceedings of Chinese Zoological Gardens*, 2: 96-103 (1993, Chinese)
2. Chen L, **Lu Q**, Mao XZ, Zhu ZK, Zhang CM, Shi H, Sun JF and Fan ZH. Chronic catheterization on vascular of sheep fetus. *Chinese Journal of Obstetrics and Gynecology*, 31 (6): 381-382 (1996, Chinese)
3. **Lu Q**, Mao XZ, Chen L and Zhu ZK. The characterization of sheep fetal nutrition metabolism and endocrine activity during late gestation, *Acta Zoologica Sinica*, 45 (2): 162-169 (1999, Chinese)
4. **Lu Q**, Shi H and Mao XZ. The effect of cholic acid loading on pregnant rats on plasma nutrition metabolism and endocrine activity as well as the growth of fetus, *Chinese Journal of Applied Physiology*, 15 (1): 76, 81 (1999, Chinese)
5. Shi H, Zhu ZK, **Lu Q**, Sun JF and Mao XZ. Effects of exogenous cholic acid on the concentration of cholane glycinate in serum in sheep and rat, *Animal Husbandry and Veterinary Medicine*, 31 (1): 14-16 (1999, Chinese)
6. **Lu Q**, Sun QY, Breitbart H and Chen DY. Expression and phosphorylation of mitogen-activated protein kinase during spermatogenesis and epididymal sperm maturation in mice. *Archives of Andrology*, 43: 55-66 (1999)
7. Sun QY*, **Lu Q***, Breitbart H and Chen DY. cAMP inhibits mitogen-activated protein (MAP) kinase activation and resumption of meiosis, but exerts no effects after spontaneous germinal vesicle breakdown (GVBD) in mouse oocytes. *Reproduction, Fertility and Development*, 11: 81-86 (1999).
8. **Lu Q**, Smith GD, Chen DY, Yang Z, Han ZM, Schatten H and Sun QY. Phosphorylation of mitogen-activated protein kinase is regulated by protein kinase C, cyclic 3', 5'-adenosine monophosphate, and protein phosphatase modulators during meiosis resumption in rat oocytes. *Biology of Reproduction*, 64: 1444-1450 (2001)
9. **Lu Q**, Dunn RL, Angeles R and Smith GD. Regulation of spindle formation by active mitogen-activated protein kinase and protein phosphatase 2A during mouse oocyte meiosis. *Biology of Reproduction*, 66: 29-37 (2002)
10. **Lu Q**, Smith GD, Chen DY, Han ZM and Sun QY. Activation of protein kinase C induces mitogen-activated protein kinase dephosphorylation and pronucleus formation in rat oocytes. *Biology of Reproduction*, 67: 64-69 (2002)
11. **Lu Q**, Hutchins AE, Doyle CM, Lundblad JR and Kwok RPS. Acetylation of CREB by CBP enhances CREB-dependent transcription. *The Journal of Biological Chemistry*, 278: 15727-15734 (2003)
12. Kramer K, Harrington EO, **Lu Q**, Bellas R, Newton J, Sheahan KL and Rounds S. Isoprenylcysteine carboxyl methyltransferase activity modulates endothelial cell apoptosis. *Molecular Biology of the Cell*, 14: 848-857 (2003)
13. **Lu Q**, Harrington EO, Hai C-M, Newton J, Garber M, Hirase T and Rounds S. Isoprenylcysteine carboxyl methyltransferase modulates endothelial monolayer permeability: involvement of RhoA carboxyl methylation. *Circulation Research*, 94: 306-315 (2004)
14. Harrington EO, Shannon CJ, Morin N, Rowlett H, Murphy C. and **Lu Q**. PKC δ regulates endothelial basal barrier function through modulation of RhoA GTPase activity. *Experimental Cell Research*, 308: 407-421 (2005).
15. **Lu Q**[¶], Harrington EO, Jackson H, Morin N, Shannon CJ, and Rounds S. Transforming growth factor- β 1-induced endothelial barrier dysfunction involves SMAD2-dependent p38 activation and subsequent RhoA activation. *Journal of Applied Physiology*, 101: 375-384, (2006).
16. **Lu Q**, Harrington EO, Newton J, Jankowich M, and Rounds S. Inhibition of ICMT induces endothelial cell apoptosis through GRP94. *American Journal of Respiratory Cell and Molecular Biology*, 36, 1-11, (2007).
17. **Lu Q**[¶]. Transforming growth factor- β 1 protects against main pulmonary artery endothelial cells apoptosis via ALK5. *American Journal of Physiology Lung Cellular and Molecular Physiology*, 295, L123-L133, (2008).
18. **Lu Q**[¶], Patel B, Harrington EO, and Rounds S. TGF- β 1 causes pulmonary microvascular endothelial cells apoptosis via ALK5. *American Journal of Physiology Lung Cellular and Molecular Physiology*. 296: L825-

L838 (2009).

19. **Lu Q**^{*}, Harrington EO^{*}, Newton J, Casserly B, Radin G, Warburton R, Zhou Y, Blackburn MR, and Rounds S. Adenosine protected against pulmonary edema through transporter- and receptor 2-mediated endothelial barrier enhancement. *American Journal of Physiology Lung Cellular and Molecular Physiology*, under revision.
20. **Lu Q**^{*}, Jankowich M, Newton J, Harrington EO, and Rounds S. Alterations in molecular chaperones and eIF2 α during lung endothelial apoptosis, *American Journal of Physiology Lung Cellular and Molecular Physiology*, under review.
21. **Lu Q**^φ, Harrington EO, and Rounds S. Transforming growth factor- β 1 increases endothelial monolayer permeability via CREB. *in preparation*.

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REVIEW ARTICLES:

1. **Lu Q**, Chen L and Mao XZ. The roles of insulin-like growth factors (IGFs) and the regulation of its activation. *Abroad Animal Science and Technology*, 23 (4): 4-6 (1996, Chinese).
2. **Lu Q** and Mao XZ. The characterization of fetus nutrition metabolism and endocrine activity, *Acta Universitatis Agriculturae Boreali-occidentalis*, 27 (1): 88-93 (1999, Chinese).
3. **Lu Q**, Liu JL and Chen DY. Cytoplasmic calcium signal. *Chemistry of Life*, 19 (2): 78-82 (1999, Chinese).
4. Liu JL, **Lu Q** and Chen DY. Nuclear calcium signal. *Chinese Bulletin of Life Science*, 13(1): 41-44 (2001, Chinese).
5. **Lu Q**, Harrington EO and Rounds S. Apoptosis and lung injury. *Keio Journal of Medicine*. 54 (4): 184-189, (2005).
6. Rounds S, **Lu Q**, Harrington EO, Newton J, and Casserly B. Pulmonary endothelial cell signaling and function. *Transactions of the American Clinical and Climatological Association*. 119:155-67 (2008).

BOOK CHAPTERS:

1. **Lu Q**. Inter-activation between sperm and oocyte during fertilization. In: *Biology of Fertilization*. Edited by D.Y. Chen, Science Press, Beijing, China, p.199-222, 2000.
2. **Lu Q**. The roles of protein kinases and phosphatases in gametogenesis, oocyte maturation and fertilization. In: *Biology of Fertilization*. Edited by D.Y. Chen, Science Press, Beijing, China, p. 276-315, 2000.
3. Rounds S, Harrington EO, and **Lu Q**. Carboxyl methylation of small GTPases and endothelial cell function. In: *Cell Signaling in Vascular Inflammation*. Edited by J. Bhattacharya, Humana Press, Totowa, NJ, p. 52-60, 2005.
4. Harrington EO, **Lu Q**, and Rounds S. Endothelial Cell Apoptosis. In: *Endothelial Biomedicine*. Edited by W. C. Aird, Cambridge University Press, New York, NY, USA, p.1081-1097, 2007.
5. **Lu Q** and Rounds S. Pulmonary endothelial cell death: implications for lung disease pathogenesis. In: *The Pulmonary Endothelium: Function in health and disease*. Edited by N. F. Voelkel and S. Rounds. John Wiley & Sons, Ltd. Chichester, UK, p.243-260, 2009.