

Curriculum Vitae

1. Personal data

Name : **Sanggun ROH**
Date of birth : 21 July, 1968
Sex : Male



Present Address : (Office) Lab of Animal Physiology
Graduate School of Agricultural Science
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2. Education

1987. 3 - 1991. 2 : Bachelor of Agriculture, Dept. of Animal Science
Seoul National University, Republic of Korea

1991. 3 - 1993. 2 : Master of Animal Science
Dept. of Animal Science & Technology
Seoul National University
Seoul, Republic of Korea

MS Thesis : The Evaluation of Protein Synthesis and Amino Acid Uptake by In Vitro Mammary Acinar Cell Culture
Supervisor: Prof. Yun-Jaie Choi

1994. 4 - 1997. 3 : Ph.D
The United Graduate School of Agriculture Science
Iwate University, Japan
Ph D Thesis : Characterization of Growth Hormone Secretion Induced by Growth Hormone-Releasing Peptide-2 (GHRP-2) in Ruminants
Supervisor: Prof. Hisashi Hidari

1997. 5 - 1999. 9 : Post-doctoral Research Fellow
Prince Henry's Institute of Medical Research
Melbourne, Australia

1999.10 - 2003.11 : Assistant Professor
Dept of Food Production Scienc, Faculty of Agriculture
Shinshu Univeristy, Japan

2003.12 – 2009. 3 : Associate Professor
Dept of Food Production Science, Faculty of Agriculture
Shinshu Univeristy, Japan

2009. 4 – 2021.3 : Associate Professor
Dept of Animal Physiology
Graduate School of Agricultural Science
Tohoku University, Japan

2017. 9 – 2019.8 : Adjunct Associate Professor
Seoul National University, Korea

2021. 4 – Present : Professor
Dept of Animal Physiology
Graduate School of Agricultural Science
Tohoku University, Japan

4. Scholarship

The scholarship from Ministry of Education, Science, Sport and Cultures
(Japan) during Ph D course (1993.10 - 1997.3)

5. Research & Experience

1993. 3 - 1993. 9 : Special Researcher
Institute of Animal Science & Technology
Dept. of Animal Science & Technology
Seoul National University, Republic of Korea

1993.10 - 1994. 3 : Research Student
Obihiro University of Agriculture & Veterinary Medicine
Obihiro, Japan

1997. 5 - 1999. 9 : Post-doctoral Research Fellow
Supervisor: Dr. Chen Chen
Prince Henry's Institute of Medical Research
Monash Medical Center
Melbourne, Australia

2002.10 - 2002.12 : Visiting Research Professor
Prince Henry's Institute of Medical Research
Monash Medical Center
Melbourne, Australia

2004. 6 - 2004. 8 : Visiting Research Professor
Center of Biochemistry

Universite de Nice-Sophia Antipolis
Faculte des Science, Nice, France

2009. 5 – 2009.10 : Visiting Research Professor
Dept of Animal Science
North Carolina State University
Raleigh, NC, USA

2017. 11 – 2019.8 : Adjunct Associate Professor
Dept of Animal Science
Seoul National University
Seoul, Republic of Korea

6. Award

2016. 6 伊藤記念財団の財団賞
(高品質牛肉の産肉性を特徴づける脂肪細胞由来の新規調節因子の解明に関する研究)
- 2012.11 2nd Woogene B&G Award of The 15th AAAP Animal Science Congress
(Thailand, November 26)
(Lipid metabolism and endocrine regulation in farm animals)
- 2007.11 日本農学進歩賞
(家畜脂肪蓄積の分子機構の解明に関する研究)
- 2003.03 日本畜産学会奨励賞受賞
(反芻動物における成長ホルモン刺激物質受容体の生理学的役割に関する研究)

7. Publication

< Peer Reviewed Original Paper >

1. Haga S, Ishizaki H, **Roh S.** 2021. The Physiological Roles of Vitamin E and Hypovitaminosis E in the Transition Period of High-Yielding Dairy Cows. *Animals* 11(4):1088, <https://doi.org/10.3390/ani1104108>
2. Ono T, Hisaeda K, Inoue ., Yamada Y, Shibano K, Mitsui I, Henmi C, Une Y, Hayashi H, **Roh S.** Nohara M, Uchida E, Nagahata H. 2021. Forestomach developmental failure in an 11-month-old Japanese Black steer with severely retarded growth and chronic ruminal tympany. *Journal of Veterinary Medical Science*, 83(2), 220-225
3. Murakami, H., Yajima, Y., Sato, F., Kamisuki, S., Taharaguchi, S., Onda, K., **Roh, S.**, Uchiyama, J., Sakaguchi, M. & Tsukamoto, K. 2020. Development of multipurpose recombinant reporter bovine leukemia virus. *Virology*, 548, 226-235.
4. Kim, W. S., Ghassemi Nejad, J., **Roh, S. G.** & Lee, H. G. 2020. Heat-Shock Proteins Gene Expression in Peripheral Blood Mononuclear Cells as an Indicator of Heat Stress in Beef Calves. *Animals*, 10, 895.

5. Nishihara, K., Suzuki, Y. & **Roh SG (Corresponding author)**. 2020. Ruminal epithelial insulin-like growth factor-binding proteins 2, 3, and 6 are associated with epithelial cell proliferation. *Animal Science Journal*, 91, e13422.
6. Nishihara, K., Suzuki, Y., Kim, D., **Roh SG (Corresponding author)**. 2019. Growth of rumen papillae in weaned calves is associated with lower expression of insulin-like growth factor-binding proteins 2, 3, and 6. *Animal Science Journal*. 90:1287–1292. <https://doi.org/10.1111/asj.13270>
7. Shimazu, T., Borjigin, L., Katoh, K., **Roh SG**, Kitazawa, H., Abe, K., Suda, Y., Saito, H., Kunii, H., Nihei, K., Uemoto, Y., Aso, H., Suzuki, K. 2019. Addition of Wakame seaweed (*Undaria pinnatifida*) stalk to animal feed enhances immune response and improves intestinal microflora in pigs. *Animal Science Journal*. 90(9):1248-1260. doi: 10.1111/asj.13274.
8. Darhan, H., Zoda, A., Kikusato, M., Toyomizu, M., Katoh, K., **Roh SG**, Ogawa, S., Uemoto, Y., Satoh, M., Suzuki, K. 2019. Correlations between mitochondrial respiration activity and residual feed intake after divergent genetic selection for high- and low- oxygen consumption in mice. *Animal science journal* 90, 818-826. <https://doi.org/10.1111/asj.13210>
9. **Roh S (Corresponding author)**, Kimura N, Sakamoto K, Nishihara K, Suzuki K, Katoh K. 2018. Effects of butyrate supplementation in antibiotic-free milk replacer and starter on growth performance in suckling calves. *Animal Science Journal* 89:1486-1491. (Peer reviewed)
10. Nakano M, Suzuki Y, Haga S, Yamauchi E, Kim D, Nishihara K, Nakajima K, Gotoh T, Park S, Baik M, Katoh K, **Roh SG (Corresponding author)**. 2018. Downregulated Angiopoietin-like Peptide 8 Production at Calving Related to Changes in Lipid Metabolism in Dairy Cows. *Journal of Animal Science*. 96(7):2646-2658. doi: 10.1093/jas/sky162. (Peer reviewed)
11. Nishihara K, Kato D, Suzuki Y, Kim D, Nakano M, Yajima Y, Haga S, Ishizaki H, Kawahara-Miki R, Kono T, Katoh K, **Roh SG (Corresponding author)**. 2018. Comparative transcriptome analysis of rumen papillae in suckling and weaned Japanese Black calves using RNA sequencing. *Journal of Animal Science* 96, 2226-2237. doi: 10.1093/jas/skx016. (Peer reviewed)
12. Haga S, Miyaji M, Nakano M, Ishizaki H, Matsuyama H, Katoh K, **Roh SG**. 2018. Changes in the expression of alpha-tocopherol-related genes in liver and mammary gland biopsy specimens of peripartum dairy cows. *Journal of Dairy Science* 101 :5277-5293. doi: 10.3168/jds.2017-13630. (Peer reviewed)
13. Darhan H, Kikusato M, Toyomizu M, **Roh SG**, Katoh K, Sato M, Suzuki K. 2017. Selection for high and low oxygen consumption-induced differences in maintenance energy requirements of mice. *Animal Science Journal* 88(7):959-965. doi: 10.1111/asj.12740. (Peer reviewed)
14. Suzuki K, Shioura H, Yokota S, Katoh K, **Roh SG**, Iida F, Komatsu T, Syoji N, Sakuma H, Yamada S. 2017. Search for an index for the taste of Japanese Black cattle beef by panel testing and chemical composition analysis. *Animal Science Journal* 88(3):421-432. doi: 10.1111/asj.12663. (Peer reviewed)
15. Suzuki Y, Haga S, Nakano M, Ishizaki H, Nakano M, Song SH, Katoh K, **Roh SG (Corresponding author)**. 2016. Postweaning changes in the expression of chemerin and its receptors in calves are associated with the modification of glucose metabolism. *Journal of Animal Science* 94(11):4600-4610. (Peer reviewed)

16. Yokoyama J, Morioka M, Inoue H, Yonei Y, Suzuki K, Katoh K, **Roh SG (Corresponding author)**. 2016. Iodine-enriched egg reduced total body fat and visceral fat among normal individuals: A placebo-controlled, randomized, double-blind study. *Glycative Stress Research* 3(3):172-176 (Peer reviewed)
17. 横山 次郎、蘇 敬夏、鈴木 裕、森岡 恵美、鈴木 啓一、加藤 和雄、**盧 尚建 (Corresponding author)**. 培養脂肪細胞におけるヨード高含有卵の卵黄の脂肪蓄積抑制の効果. *日本畜産学会誌* 87(4) : 345-350
18. **Roh SG (Corresponding author)**, Kato D, Suzuki Y, Haga S. 2016. Comparison of the gene expression of rumen epithelium in pre- and post-weaning young cattle. *家畜栄養生理研究会会報* 60(2), 79-84
19. Ilavenil S, Kim DH, Vijayakumar M, Srigopalram S, **Roh SG**, Arasu MV, Lee JS, Choi KC. 2016. Potential role of marine algae extract on 3T3-L1 cell proliferation and differentiation: an in vitro approach. *Biological Research* 49(1): 38.
20. Borjigin L, Shimazu T, Katayama Y, Li M, Satoh T, Watanabe K, Kitazawa H, **Roh SG**, Aso H, Katoh K, Uchida T, Suda Y, Sakuma A, Nakajo M, Suzuki K. 2016. Immunogenic properties and mycoplasmal pneumonia of swine (MPS) lung lesions in Large White pigs selected for higher peripheral blood immune capacity. *Animal Science Journal* 87(5) :638-645 (Peer reviewed)
21. Borjigin L, Shimazu T, Katayama Y, Li M, Satoh T, Watanabe K, Kitazawa H, **Roh SG**, Aso, H, Katoh K, Takafumi Uchida, Suda Y, Sakuma A, Nakajo M, Suzuki K. 2017. Immunogenic properties of Landrace pigs selected for resistance to mycoplasma pneumonia of swine. *Animal Science Journal* 87(3):321-9. doi: 10.1111/asj.12440 (Peer reviewed)
22. Hirayama T, Hirakawa M, Oikawa T, **Roh SG**, Hayashi H. 2016. Sensory research of soup of goat meat in Okinawa. *J. Warm Regional Society of Anim. Sci.*59(1) :17-21.
23. Kato D, Suzuki Y, Haga S, So KH, Yamauchi E, Nakano M, Ishizaki H, Choi KC, Katoh K, **Roh SG (Corresponding author)**. 2016. Utilization of digital differential display to identify differentially expressed genes related to rumen development. *Animal Science Journal* 87: 584-590 (Peer reviewed)
24. **Roh SG**, Suzuki Y, Gotoh T, Tatsumi R, Katoh K. 2016. Physiological roles of adipokines, hepatokines, and myokines in ruminants. *Asian-Australian Journal of Animal Science* 29(1):1-15. doi: 10.5713/ajas.16.0001R. (Invited review)
25. 鈴木裕、中野美智、芳賀聡、中島恵一、加藤和雄、**盧尚建**. 2015. 反芻動物におけるヘパトカインとしての Chemerin と ANGPTL8 の発現調節. *家畜栄養生理研究会会報* 59(2):59-68. (査読有)
26. Chen S, Tanaka S, Ogura S, **Roh SG**, Sato S. 2015. Effect of Suckling Systems on Serum Oxytocin and Cortisol Concentrations and Behavior to a Novel Object in Beef Calves. *Asian-Australian Journal of Animal Science* 28(11):1662-1668. (Peer reviewed)
27. Suzuki Y*, Haga S*, Katoh D, So KH, Choi KC, Jung US, Lee HG, Kazuo K, **Roh SG (Corresponding author)**. 2015. Chemerin is a novel regulator of lactogenesis in bovine mammary epithelial cells. *Biochemical and Biophysical Research Communications*. 466(3): 283-288 (Peer reviewed)
*Co-First Author
28. Haga S, Nakano M, Ishizaki H, **Roh SG**, Katoh K. 2015. Expression of α -tocopherol-associated genes and α -tocopherol accumulation in Japanese

- Black (Wagyu) calves with and without α -tocopherol supplementation. *Journal of Animal Science*. 93:4048–4057 (Peer reviewed)
29. So KH, Suzuki Y, Yonekura S, Suzuki Y, Lee CH, Kim SW, Katoh K, **Roh SG (Corresponding author)**. 2015. Soluble extract of soybean fermented with *Aspergillus oryzae* GB107 inhibits fat accumulation in cultured 3T3-L1 adipocytes. *Nutrition Research and Practice*. 9(4):439-444 (Peer reviewed)
 30. Yamauchi E, Suzuki Y, So KH, Suzuki K, Katoh K, **Roh SG (Corresponding author)**. 2015. Single Nucleotide Polymorphism in the Coding Region of Bovine Chemerin Gene and Their Associations with Carcass Traits in Japanese Black cattle. *Asian-Australian Journal of Animal Science* 28(8):1084-1089 (Peer reviewed)
 31. Wang T, Lee SB, Hwang JH, Lim JN, Jung US, Kim MJ, Kang HS, Choi SH, Lee JS, **Roh SG**, Lee HG. 2015. Proteomic analysis reveals PGAM1 altering cis-9, trans-11 conjugated linoleic acid synthesis in bovine mammary gland. *Lipid* 50(5): 469-481 (Peer reviewed)
 32. Wang T, Lim JN, Lee JS, Lee SB, Hwang JH, Jung US, Kim MJ, Hwang DY, Lee SR, **Roh SG**, Lee HG. 2015. Effects of dietary trans-9 octadecenoic acid, trans-11 vaccenic acid and cis-9, trans-11 conjugated linoleic acid in mice. *Molecular Medicine Reports* 12 :3200-3206 (Peer reviewed)
 33. **Roh SG**, Carroll JA, Kim SW. 2015. Effects of fermented soybean meal on innate immunity-related gene expressions in nursery pigs acutely challenged with lipopolysaccharides. *Animal Science Journal* 86(5):508-516. (Peer reviewed)
 34. Yi KJ*, So KH*, Hata Y, Suzuki Y, Kato D, Watanabe K, Aso H, Kasahara Y, Nishimori K, Chen C, Katoh K, **Roh SG (Corresponding author)**. 2015. The regulation of oxytocin receptor gene expression during adipogenesis. *J. Neuroendocrinology* 27 :335-342 (Peer reviewed) * :Co-First Author
 35. Hiradate Y, Inoue H, Kobayashi N, Shirakata Y, Suzuki Y, Gotoh A, **Roh SG**, Uchida T, Katoh K, Yoshida M, Sato E, Tanemura K. 2014. Neurotensin enhances sperm capacitation and acrosome reaction. *Biology of Reproduction* 91(2): 53, 1-9 (Peer reviewed)
 36. Takahashi T, Sato K, Kato S, Yonezawa T, Kobayashi Y, Ohtani Y, Owada S, Aso H, Yamaguchi T, **Roh SG**, Katoh K. 2014. Increased plasma ghrelin suppresses insulin release in wethers fed with a high protein diet. *J Endocrinology* 221(3):371-380 (Peer reviewed)
 37. Sugita H, Ardiyanti A, Yokota S, Yonekura S, Hirayama H, Shoji N, Yamauchi E, Suzuki K, Katoh K, **Roh SG (Corresponding author)**. 2014. The effect of single nucleotide polymorphisms in GH gene promoter region on carcass traits and intramuscular fatty acid compositions in Japanese Black cattle. *Livestock Science* 165:15-21 (Peer reviewed)
 38. Ilavenil S, Arasu MV, Lee, JC, Kim DH, **Roh SG**, Park HS, Choi GJ, Mayakrishnan V, Choi KC. 2014. Trigonelline attenuates the adipocyte differentiation and lipid accumulation in 3T3-L1 cells. *Phytomedicine* 21(5):758-765 (Peer reviewed)
 39. Monir M, Hiramatsu K, Matsumoto S, Nishimura K, Takemoto C, Shioji T, Watanabe T, Kita K, Yonekura S, **ROH SG**, 2014. Influences of protein ingestion on glucagon-like peptide (GLP)-1-immunoreactive endocrine cells in the chicken ileum. *Animal Science Journal* 85(5):581-587 (Peer reviewed)
 40. Shimazu T, Borjigin L, Katayama Y, Li M, Satoh T, Watanabe K, Kitazawa H, **Roh SG**, Aso H, Kazuo K, Suda Y, Sakuma A, Nakajo M, Suzuki K. 2014.

- Immunological characteristics of peripheral blood leukocytes in swine selected for resistance to Mycoplasmal pneumonia. *Animal Science Journal* 85(4):365-373 (Peer reviewed)
41. **Roh SG (Corresponding Author)**, Koiwa K, Sato K, Ohtani Y, Takahashi T, Katoh K. 2014. Actions of intravenous injections of AVP and oxytocin on plasma ACTH, GH, insulin, and glucagon concentrations in goats. *Animal Science Journal* 85(2) :286-292 (Peer reviewed)
 42. Chen S, Tanaka S, Oyakawa C, **Roh SG**, Satoh S. 2014. Individual difference in serum oxytocin concentrations of calves and the correlation with those in dams. *Animal Science Journal* 85(1):53-57. (Peer reviewed)
 43. Valan M, Ilavenil S, Kim DH, **Roh SG**, Lee JC, Choi KC. 2014. In vitro and In vivo enhancement of adipogenesis by italian ryegrass (*Lolium Multiflorum*) in 3T3-L1 cells and mice. *PLOS ONE* 9(1) :e85297 (Peer reviewed)
 44. Bahrami A, Ardiyanti A, Tonosaki K, Suzuki K, Tanida N, Hirayama T, **Roh SG**, Nishio T, Katoh K. 2013. Haplotype C of growth hormone (GH) gene in Japanese Black cattle: Structure of GH protein and a novel method for detection of the gene. *Animal Science Journal* 84(12):802-804. (Peer reviewed)
 45. Kasahara Y, Sato K, Takayanagi Y, Mizukami H, Ozawa K, Hidema S, So KH, Kawada T, Inoue N, Ikeda I, **Roh SG**, Itoi K, Nishimori K, 2013. Oxytocin receptor in the hypothalamus is sufficient to rescue normal thermoregulatory function in male oxytocin receptor knockout mice. *Endocrinology* 154(11):4305-4315 (Peer reviewed)
 46. 鈴木 裕、北山 峻、山内 恵利、宋 相憲、加藤 和雄、**盧 尚建**. 2013. 反芻動物の糖脂質代謝系における Chemerin の生理的作用機構と生産性との関連. 家畜栄養生理研究会 57(1):45-54. 査読有り
 47. Shimazu T, Borjigin L, Katayama Y, Li M, Sato T, Watanabe K, Kitazawa H, **Roh SG**, Aso H, Katoh K, Suda Y, Sakuma A, Nakajo M, Suzuki K. 2013. Immunological characterization of peripheral blood leukocytes using vaccine for mycoplasmal pneumonia of swine (MPS) in swine line selected for resistance to MPS. *Animal Science Journal* 84(10):683-692 (Peer reviewed)
 48. Bahrami A, Behzadi Sh, Miraei-Ashtiani S.R., **Roh SG**, Katoh K. 2013. Genetic polymorphisms and protein structures in growth hormone, growth hormone receptor, ghrelin, insulin-like growth factor 1 and leptin in Mehraban sheep. *Gene* 527(1):397-404. (Peer reviewed)
 49. Ebara F, Inada S, Morikawa M, Asaoka S, Isozaki Y, Saito A, Etoh T, Shiotsuka Y, **Roh SG**, Wegner J, Gotoh T. 2013. Effect of nutrient intake on intramuscular glucose metabolism during the early growth 2 stage in crossbred steers (Japanese Black male × Holstein female). *Journal of Animal Physiology and Animal Nutrition*. 97(4) :684-693. (Peer reviewed)
 50. Takahashi T, Kobayashi Y, Haga S, Ohtani Y, Sato K, Obara Y, Hagino A, **Roh SG**, Katoh K. 2012. A high-protein diet induces dissociation between plasma concentrations of growth hormone and ghrelin in wethers. *Journal of Animal Science* 90(12):4807-4813. (Peer reviewed)
 51. Ohtani Y, Takahashi T, Sato K, Ardiyanti A, Song SH, Sato R, Onda K, Wada Y, Obara Y, Suzuki K, Hagino A, **Roh SG** and Katoh K. 2012. Changes in circulating adiponectin and metabolic hormones concentrations during periparturient and lactation periods in Holstein dairy cows. *Animal Science Journal* 83(12): 788-795. (Peer reviewed)

52. Suzuki Y, Song SH, Ardiyanti A, Kato T, So KH, Katoh K, **Roh SG (Corresponding Author)**. 2012. The regulation of chemerin and CMKLR1 genes expression by TNF- α , adiponectin and chemerin analog in bovine differentiated adipocytes. *Asian-Australian Journal of Animal Science* 25(9) :1316-1321. (Peer reviewed)
53. Fukuda T, Katayama M, Yoshizawa T, Eitsuka T, Mizukami H, Nakagawa K, Ito H, Komagata H, Song SH, **Roh SG**, Hoshino Y, Sato E, Hanada H, Nishimori K, Miyazawa T, Uchida T. 2012. Efficient establishment of pig embryonic fibroblast cell lines with conditional expression of simian vacuolating virus 40 large T fragment. *Bioscience, Biotechnology, and Biochemistry* 76(7) :1372-1377. (Peer reviewed)
54. Ardiyanti A, Abe T, Tameoka N, Kobayashi E, Shoji N, Suzuki K, **Roh SG**, Katoh K. 2012. Effects of bovine growth hormone (GH) gene polymorphism on lipogenic genes expression levels in diaphragm tissues of Japanese Black Heifer. *Asian-Australian Journal of Animal Science* 25(8) :1055-1062. (Peer reviewed)
55. Suzuki Y, Song SH, Sato K, So KH, Ardiyanti A, Kitayama S, Hong YH, Lee SD, Choi KC, Hagino A, **Roh SG (Corresponding Author)**. 2012. Chemerin analog regulates energy metabolism in sheep. *Animal Science Journal* 83 :263-267. (Peer reviewed)
56. Sato K, Takahashi T, Kobayashi K, Hagino A, **Roh SG**, Katoh K. 2012. Apelin is involved in postprandial responses and stimulates secretion of arginine-vasopressin, adrenocorticotrophic hormone and growth hormone in the ruminant. *Domestic Animal Endocrinology* 42:165-172. (Peer reviewed)
57. Orihashi T, Mashiko T, Sera K, **Roh SG**, Katoh K, Obara Y. 2012. Effects at early stage of life of elevated milk replacer feeding on growth rate, plasma IGF-I concentration and intestinal nutrient transporter expression in Holstein bull calves. *Animal Science Journal* 83:77-82. (Peer reviewed)
58. 佐藤勝祥、大川夏貴、萩野顕彦、盧尚建、加藤和雄。 2011. 反芻動物における血漿中 Apelin 濃度の変動と内分泌調節。 *家畜栄養生理研究会会報*. 55(1):17-24. (Peer reviewed)
59. Kato S, Sato K, Chida H, **Roh S.G**, Ohwada S, Sato S, Guilloteau P, Katoh K. 2011. Effects of sodium-butyrate-supplementation in milk formula on plasma concentrations of GH and insulin, and on rumen papilla development in calves. *J. Endocrinology* 211 :241-248 (Peer reviewed)
60. 船井咲知、高橋大、杉本亮、盧尚建、高木優二、鏡味裕、小野珠乙、佐々木晋、辻井弘忠、濱野光市。 2011. 体外における未成熟マウス精原幹細胞の分化。 *北信越畜産学会報*. 102:19-25. (Peer reviewed)
61. Ohtani Y, Yonezawa T, Song SH, Takahashi T, Ardiyanti A, Sato K, Hagino A, **Roh SG** and Katoh K. 2011. Gene expression and hormonal regulation of adiponectin and its receptors in bovine mammary gland and mammary epithelial cells. *Animal Science Journal*. 82:99-106. (Peer reviewed)
62. Song SH, Fukui K, Nakajima K, Kozakai T, Sasaki S, **Roh SG (Corresponding Author)**, Katoh K. 2010. Cloning, expression analysis, and regulatory mechanisms of bovine chemerin and chemerin receptor. *Domestic Animal Endocrinology* 39(2):97-105. (Peer reviewed)
63. 大谷 喜永、萩野 顕彦、盧 尚建、加藤 和雄。 2010. ウシ乳腺におけるアディポネクチンとその受容体の発現と機能に関する研究。 *家畜栄養生理研究会会報*. 54(1):1-12. (Peer reviewed)

64. Song SH, Hong YH, Sasaki S, **Roh SG (Corresponding Author)**, Katoh K. 2009. Prostatic Androgen-Repressed Message-1 as a Regulator of Adipocyte Differentiation in the mouse. *Tohoku J. of Exp. Med.* 219:311-317. (Peer reviewed)
65. Ardiyanti A, Hirayama T, Abe T, Shoji N, Kobayashi E, Chikuni K, Suzuki K, **Roh SG**, Katoh K. 2009. The effects of GH gene polymorphism on carcass traits, endocrine function, fatty acid composition, and lipogenic gene expressions in Japanese Black Cattle. *家畜栄養生理研究会報* 53(2):11-18. (Peer reviewed)
66. Iga T, Satoh T, Yamamoto S, Fukui K, Song SH, Choi KC, **Roh SG**, Sasaki S. 2009. Differential action of trans-10, cis-12 conjugated linoleic acid on adipocyte differentiation of ovine and 3T3-L1 preadipocytes. *Asian-Australian Journal of Animal Science.* 22(11):1566-1573. (Peer reviewed)
67. **Roh SG (Corresponding Author)**, Song SH, Choi KC, Katoh K, Wittamer V, Parmentier M, Sasaki S. 2007. Chemerin - A New adipokine that modulates adipogenesis via its own receptor. *Biochem. Biophys. Res. Commun.* 362(4):1013-8. (Peer reviewed)
68. 川西 多恵、高橋 大、船井 咲知、鈴木 誠、水野 敦子、後藤 千寿、**盧 尚建**、小野 珠乙、佐々木 晋一、辻井 弘忠、濱野 光市. 2007. マウス精子の走温性における Transient Receptor Potential Vanilloid (TRPV)4 の関与の可能性. *北信越畜産学会報.* 94:35-41. (Peer reviewed)
69. 高橋 大、船井 咲知、川西 多恵、後藤 千寿、**盧 尚建**、小野 珠乙、佐々木 晋一、辻井 弘忠、名倉 義夫、藤田 優、濱野 光市. 2007. ヤギ精上皮における FSH レセプター mRNA の発現. *北信越畜産学会報.* 94:43-47. (Peer reviewed)
70. Gotoh C, Hong YH, Iga T, Hishikawa D, Suzuki Y, Song SH, Choi KC, Adachi T, Hirasawa A, Tsujimoto G, Sasaki S, **Roh SG (Corresponding Author)**. 2007. The regulation of adipogenesis through GPR120. *Biochem. Biophys. Res. Commun.* 354(2):591-597. (Peer reviewed)
71. **Roh SG**, Kuno M, Hishikawa D, Hong YH, Katoh K, Obara Y, Hidari H, Sasaki S. 2007. Identification of differentially expressed transcripts in bovine rumen and abomasum using a differential display method. *J. Anim. Sci.* 85:395-403. (Peer reviewed)
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