

	Dr. Manoj Kumar Rose
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Educational Qualifications	<p>2005 Ph.D.(Veterinary Physiology), CCSHAU Hisar (Research work was carried out in Germany under German Academic exchange service fellowship programme)</p> <p>1993 M.V.Sc. (Veterinary Physiology), CCSHAU Hisar</p> <p>1991 B.V.Sc. and A.H.(Hons.), CCSHAU Hisar</p>
Employment Details	<p>Professor & Head 7 April 2017 Till to date</p> <p>Professor May, 2011 Till to date</p> <p>Associate professor May, 2005 – May, 2011</p> <p>Assistant professor May, 1995 – May, 2005</p>
Research Interests	All disciplines of Veterinary Physiology/Animal Physiology
Award and Recognitions	<ul style="list-style-type: none"> • Awarded German Academic Exchange Service (DAAD) fellowship for carrying out Ph.D. research work in Germany. • Awarded CCS HAU Merit fellowship through out B.V.Sc. and A.H. programme. • Awarded CCS HAU Merit fellowship through out M.V.Sc. programme.
Membership of Scientific Societies	<ul style="list-style-type: none"> • Life member of Indian Society for the Study of Animal Reproduction • Life member of Indian Pineal Study Group • Life member of Society of Animal Physiologists of India • Life member of Indian Society for Buffalo Development • Life member of Indian Poultry Science Association • Life member of Indian veterinary Journal
Selected Publications	<ul style="list-style-type: none"> • Rose, M.K. and Gupta, M. 2015. Age associated variations in lymphocytic growth hormone secretion in cattle. Journal of Cell and Tissue Research. 15(3):

5335-5340.

- **Rose, M.K.**, Gupta, M. and Sindhu, S. 2015. Practical Veterinary Physiology. Kalyani Publishers, Ludhian, Delhi. Pp 1-210.
- Singh, P., **Rose, M. K.**, Yadav, P.S., Sharma, R. and Singh, J. 2014. Gene expression involved in apoptosis like mechanism before and after freezing of umbilical cord matrix stem cells using different cryoprotectants. Journal of Cell and Tissue Research. **14**(2): 4429-4433.
- Kumar, R., Gupta, M., **Rose, M. K.**, Ghosh, M. and Singh, I. 2014. Hematological profile in postpartum anestrous and normal cyclic Murrah buffaloes. Journal of Cell and Tissue Research. **14**(2): 4241-4243.
- Madan, J., Gupta, M., **Rose M. K.**, Sindhu S. and Kar D. 2013. Metabolic alterations in buffaloes suffering from digestive disorders. Haryana Veterinarian. **52**: 71-72.
- **Rose, M.K.** 2013. Lymphocytic nitric oxide secretion during different reproductive phases in cattle. Indian Journal of Animal Research. **47**(4):331-334.
- Singh, P., **Rose, M.K.**, Yadav, P.S., Sharma, R., and Singh, J. 2013. Effects of cryoprotectants on freezing, culture behavior of buffalo umbilical matrix cells. Journal of Cell and Tissue Research. **13** (2):3625-3630.
- **Rose, M.K.**, Puri, J.P., Gupta, M., Sindhu, S., Garg, S.L. 2012. Seasonal variations in thyroid hormone levels in male buffaloes (*Bubalus bubalis*). The Journal of Animal and Plant Sciences. **22** (S4):591-593.
- **Rose, M.K.** 2012. Age associated variations in plasma growth hormone and sex steroid levels in cattle. Indian Veterinary Journal. **89**(10):28-30.
- Phogat, J.B. and **Rose, M.K.** 2012. Opioidergic, adrenergic and GABAergic modulation of growth hormone and cortisol secretion: A Review. Indian Journal of Animal Sciences. **82**(9):946-952.
- **Rose, M.K.** 2012. Plasma growth hormone levels during various reproductive phases in cattle. Indian Veterinary Journal. **89**(3):31-33.
- **Rose, M.K.** and Phogat, J.B. 2011. Growth hormone and regulation of reproduction and immune system- A review. Indian Journal of Animal Sciences. **81**(11):1099-1112.
- **Rose, M.K.** and Parvizi, N. 2011. Up-regulation of lymphocytic growth hormone secretion during the luteal phase of cycle and early pregnancy. Regulatory Peptides. **167**: 1-4.

Detailed List of Publications

Research papers/Review papers in referred Journals

- **Rose, M.K.** and Gupta, M. 2015. Age associated variations in lymphocytic growth hormone secretion in cattle. *Journal of Cell and Tissue Research*. **15**(3): 5335-5340.
- Singh, P., **Rose, M. K.**, Yadav, P.S., Sharma, R. and Singh, J. 2014. Gene expression involved in apoptosis like mechanism before and after freezing of umbilical cord matrix stem cells using different cryoprotectants. *Journal of Cell and Tissue Research*. **14**(2): 4429-4433.
- Kumar, R., Gupta, M., **Rose, M. K.**, Ghosh, M. and Singh, I. 2014. Hematological profile in postpartum anestrous and normal cyclic Murrah buffaloes. *Journal of Cell and Tissue Research*. **14**(2): 4241-4243.
- Madan, J., Gupta, M., **Rose M. K.**, Sindhu S. and Kar D. 2013. Metabolic alterations in buffaloes suffering from digestive disorders. *Haryana Veterinarian*. **52**: 71-72.
- **Rose, M.K.** 2013. Lymphocytic nitric oxide secretion during different reproductive phases in cattle. *Indian Journal of Animal Research*. **47**(4): 331-334.
- Singh, P., **Rose, M.K.**, Yadav, P.S., Sharma, R., and Singh, J. 2013. Effects of cryoprotectants on freezing, culture behavior of buffalo umbilical matrix cells. *Journal of Cell and Tissue Research*. **13** (2): 3625-3630.
- **Rose, M.K.**, Puri, J.P., Gupta, M., Sindhu, S., Garg, S.L. 2012. Seasonal variations in thyroid hormone levels in male buffaloes (*Bubalus bubalis*). *The Journal of Animal and Plant Sciences*. **22** (S4): 591-593.
- **Rose, M.K.** 2012. Age associated variations in plasma growth hormone and sex steroid levels in cattle. *Indian Veterinary Journal*. **89**(10): 28-30.
- Phogat, J.B. and **Rose, M.K.** 2012. Opioidergic, adrenergic and GABAergic modulation of growth hormone and cortisol secretion: A Review. *Indian Journal of Animal Sciences*. **82**(9): 946-952.
- **Rose, M.K.** 2012. Plasma growth hormone levels during various reproductive phases in cattle. *Indian Veterinary Journal*. **89**(3): 31-33.
- **Rose, M.K.** and Phogat, J.B. 2011. Growth hormone and regulation of reproduction and immune system- A review. *Indian Journal of Animal Sciences*. **81**(11): 1099-1112.
- **Rose, M.K.** and Parvizi, N. 2011. Up-regulation of lymphocytic growth hormone secretion during the luteal phase of cycle and early pregnancy. *Regulatory Peptides*. **167**: 1-4.
- Prasad, R., **Rose, M.K.**, Garg, S.L. and Puri, J.P. 2010. Thyroid hormone levels in response to dietary supplementation of Garlic (*Allium sativum*) in chicken. *Indian Journal of Poultry Science*. **45**(1): 97-99.
- **Rose, M.K.**, Gupta, M., Puri, J.P., Sindhu, S., Chander, S. 2009. Rumen ecosystem and blood metabolite alterations in buffaloes suffering from diaphragmatic hernia. *Indian Journal of Animal Physiology*. **4** (2): 72-74.
- Prasad, R., **Rose, M.K.**, Virmani, M., Garg, S.L. and Puri, J.P. 2009. Effect of Garlic (*Allium sativum*) supplementation on productional traits in chicken (*Gallus domesticus*). *Haryana Veterinarian*. **48**: 23-25.
- Prasad, R., **Rose, M.K.**, Virmani, M., Garg, S.L. and Puri, J.P. 2009. Effect of Garlic (*Allium sativum*) supplementation on haematological parameters in chicken (*Gallus domesticus*). *Indian Journal of Animal Research*. **43** (3): 157-162.
- **Rose, M.K.**, Puri, J.P., Gupta, M., Goyal, R.L., Arya, S.C. and Kar, D. 2009. Plasma enzyme profiles in female buffaloes suffering from diaphragmatic hernia and traumatic reticuloperitonitis. *Indian Journal of Animal Sciences*. **79** (3): 288-289.

- Prasad, R., **Rose, M.K.**, Virmani, M., Garg, S.L. and Puri, J.P. 2009. Lipid Profile of Chicken (*Gallus domesticus*) in Response to Dietary Supplementation of Garlic (*Allium sativum*). *International Journal of Poultry Science*. **8** (3): 270-276.
- Rathee, S.S., Garg, S.L. and **Rose, M.K.**, 2005. Lactate dehydrogenase profile in female buffalo calves from Birth to puberty. *Haryana Veterinarian*. **44**: 79-80.
- Puri, J.P., Grewal, S.S., Sindhu, S. and **Rose M.K.** 2004. Effect of feeding
- protected protein supplemented with urea-treated straw on performance of buffalo calves. *Indian Journal of Animal Sciences*. **74** (3): 319-320.
- Garg, S.L. Sharma, Sunil, **Rose, M.K.** and Agarwal, V.K. 2002. Age associated variations in peripheral concentration of certain hormones of
- female buffalo calves from birth to puberty. *Indian Journal of Animal Sciences*. **72** (7): 579-581.
- Rathee, S.S., Garg, S.L. and **Rose, M.K.**, Agarwal, V.K. 2002. Amino transferases profile in female buffalo calves from birth to puberty. *Indian Journal of Animal Sciences*. **72** (5): 393-394.
- Garg, S.L.; **Rose, M.K.** and Agarwal, V.K. 2001. Plasma cortisol and thyroid hormone concentrations in cross-bred cow calves affected with theileriosis. *Indian Veterinary Journal*. **78**(7): 583-585.
- Agarwal, V.K., **Rose, M.K.**, Garg, S.L. and Saini, M.S. 2000. Variation in peripheral profiles of tri-iodothyronine (T₃), thyroxine (T₄) and cortisol in female buffalo calves during first year of age. *Haryana Veterinarian*. **39**: 17-19.
- Sihag, S.S., **Rose, M.K.**, Inderjeet and Garg, S.K. 2000. Haematological variations associated with complete water deprivation and rehydration in buffalo calves. *Buffalo Bulletin*. **19** (1): 16-19.
- **Rose, M.K.**; Garg, S.L.; Saini, M.S.; Singh, N. and Agarwal, V.K. 1999. Energy yielding blood metabolites in growing female buffalo calves during their first year of age. *Haryana Veterinarian*. **XXXVIII**: 29-32.
- Inderjeet and **Rose, M.K.** 1999. Stress and reproduction - A review. *Haryana Veterinarian*. **XXXVIII**: 81-92.
- Sihag, S.S.; **Rose, M.K.**; Inderjeet and Garg, S.K. 1999. Effect of complete water restriction and subsequent rehydration on physiological parameters and body fluid compartments in buffalo calves. *Haryana Veterinarian*. **XXXVIII**: 3-10.
- Garg, S.L., Singh, Kuldeep; **Rose, M.K.**; Singh, Prem and Agarwal, V.K. 1999. Plasma cortisol and thyroid hormones concentrations in buffaloes affected with traumatic pericarditis. *Haryana Veterinarian*. **XXXVIII**: 15-17.
- Sihag, S.S., **Rose, M.K.**, Nangia, O.P. and Garg, S.K. 1998. Effects of partial water restriction and subsequent rehydration on physiological parameters and body fluid compartments in buffalo calves. *Indian Journal of Animal Sciences*. **68** (10): 1087-1089.
- Garg, S.L., **Rose, M.K.** and Rao, A.R. 1997. Thyroid function in crossbred calves suffering from foot and mouth disease. *Haryana Veterinarian*. **XXXVI**: 8-10.
- Garg, S.L., **Rose, M.K.**, Saini, M.S., Singh, N., Bhatia, J.S. and Agarwal, V.K. 1997. Age associated haematological variations in buffalo calves. *Buffalo Bulletin*. **16**(2): 27-29.
- **Rose, M.K.**, Verma, S.P. and Rao, A.R. 1997. Effects of chronic administration of adrenalin and its blockers to mother mice on the sex ratio of their progeny. *International Journal of Animal Sciences*. **12**: 131-133.
- Sihag, S.S., Garg, S.K., **Rose, M.K.** and Nangia, O.P. 1997. Haematological response of partial water deprivation and subsequent rehydration in buffalo calves. *Haryana Veterinarian*. **XXXVI**: 30-33.
- Rao, A.R. and **Rose, M.K.** 1995. Effect of chronic stressors and antistressors in plasma glucose in mice. *Indian Veterinary Journal*. **72**: 139-142.
- **Rose, M.K.** and Rao, A.R. 1995. Effect of adrenalin and adrenergic blockers on the transaminases of blood plasma in mice. *Haryana Veterinarian*. **XXXII-XXXIV**: 27-29.

- **Rose, M.K.** and Rao, A.R. 1995. Effect of administration of dexamethasone or hydrocortisone to mother mice on the sex ratio of their progeny. *Indian Journal of Animal Research*. **29**: 49-52.
- **Rose, M.K.**, Kumar, B.B. and Rao, A.R. 1994. Effect of chronic stressors and antistressors on the fertility of mice. *Indian Journal of Animal Physiology*. **2**: 11-15.

Books/Chapters in Books

- **Rose, M.K.**, Gupta, M. and Sindhu, S. 2015. *Practical Veterinary Physiology*, 1st Edn. Pp. 1-210. Kalyani Publishers, Ludhiana, New Delhi.
- **Rose, M.K.** and Gupta, M. 2014. Nanotechnological approaches for oestrus detection and synchronization and the fertility improvement. In:Garg, S.R. (ed) *Nanotechnology for Animal Health and Production*, 1st edn. Pp. 225-232. Astral International Pvt. Ltd., New Delhi.

Practical manuals

- **Rose M.K.**, Sindhu, S., Gupta, M. and Puri, J.P. 2011. *Laboratory Manual of Veterinary Physiology III.(Endocrinology, Reproduction, Growth and Environmental Physiology)*. Department of Veterinary Physiology, College of Veterinary Sciences, CCS HAU, Hisar, India.
- Gupta, M., Puri, J.P., **Rose, M.K.** and Sindhu, S. 2010. *Laboratory Manual: Veterinary Physiology-II. (Neuromuscular, Digestive and Respiratory Systems)*. Department of Veterinary Physiology, College of Veterinary Sciences, CCS Haryana Agricultural University, Hisar, India.
- Gupta, M., Puri, J.P., **Rose, M.K.** and Sindhu, S. 2009. *Laboratory Manual: Veterinary Physiology-I. (Blood, Cardiovascular, Excretory System and Body Fluids)*. Department of Veterinary Physiology, College of Veterinary Sciences, CCS Haryana Agricultural University, Hisar, India.
- **Rose M.K.**, Singh Pardeep and Goyal R.L. 2006. *Laboratory Manual : Veterinay Physiology III.(Reproduction, Lactation and Endocrinology)*. Department of Veterinary Physiology, College of Veterinary Sciences, CCS HAU, Hisar, India.
- **Rose, M.K.**, Gupta, M. and Puri, J.P. 2006. *Laboratory Manual : Veterinay Physiology-I. (Hematology, Cardiovascular Physiology and Respiratory Physiology)*. Department of Veterinary Physiology, College of Veterinary Sciences, CCS HAU, Hisar, India.
- **Rose M.K.** and Goyal R.L. 2005. *Laboratory Manual : Veterinay Physiology-IV. (Growth, Environmental Physiology and Climatology)*.Department of Veterinary Physiology, College of Veterinary Sciences, CCS HAU, Hisar, India.
- Gupta, M, **Rose, M.K.**, Sindhu, S. Garg, S.K. and Puri, J.P. 2004. *Laboratory Manual : Veterinay Physiology-II. (Digestive, Excretory and Nervous System)*. Department of Veterinary Physiology, College of Veterinary Sciences, CCS HAU, Hisar, India.

Paper presented/ Abstracts published in conferences/symposia/seminars

- **Rose, M.K.**, and Gupta, M. 2014. Age associated variations in lymphocytic growth hormone secretion in cattle. Presented poster in XXIII Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on Physiological Determinants of Climate Resilient and Sustainable Animal Production, organized by Division of Animal Physiology and Reproduction, CIRB, Hisar, India, November 27-28, 2014.
- Kumar, R., Gupta, M., **Rose, M.K.**, Ghosh, M. and Singh, I. 2013. Hematological profile in postpartum anestrous and normal cyclic Murrah buffaloes. Paper accepted and abstract published in 5th Congress of Federation of Indian Physiological Societies on Physiology, Ethanopharmacology, Biotechnology and Health Therapeutics on Physiology in Promoting Health, organized at Sri Venkateswara University, Tripuri, December 17-19, 2013.

- Madan, J., Sindhu, S., **Rose, M.K.**, Gupta, M. and Verma, A.K. 2013. Blood metabolites and mineral status in buffaloes suffering from digestive disorders. Paper accepted and abstract published in compendium of XXII Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on Physiological and Nutri-genomic Interventions to Augment Food Security and Animal Welfare, organized by Department of Veterinary Physiology, College of Veterinary Science and Animal Husbandry, Mathura, India, November 19-21, 2013.
- Kumar R., Gupta, M., **Rose, M.K.**, Ghosh, M. and Singh, I. 2013. Relation between antioxidant status and postpartum anestrus (PPA) condition in Murrah buffalo. Paper accepted and abstract published in compendium of XXII Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on Physiological and Nutri-genomic Interventions to Augment Food Security and Animal Welfare, organized by Department of Veterinary Physiology, College of Veterinary Science and Animal Husbandry, Mathura, India, November 19-21, 2013.
- Kumar R., Gupta M., **Rose M.K.**, Ghosh M. and Singh I. 2013. Mineral status affects the post partum cyclicity in Murrah buffaloes. Paper accepted and abstract published in Compendium of International Livestock Nutrition Conference organized by Nutritionists Association of Pakistan, University of Veterinary and Animal Sciences. Lahore, October 23-24, 2013.
- Madan, Jyotsana., Gupta, M., **Rose, M.K.**, Sindhu, S. and Kar, D. 2012. Plasma metabolic profile and selective mineral status in buffaloes suffering from digestive disorders. Abstract published in compendium of XX1 Annual Conference of Society of Animal Physiologists of India (SAPI) and National symposium on Physiological Research in changing environmental scenario for Sustainable Livestock and Poultry Production, organized by Department of Veterinary Physiology and Biochemistry, Vanbandhu college of Vety Science and Animal Husbandry, Navsari Agricultural University, Navsari, Gujarat, India, November 6-8, 2012.
- Madan, J., Gupta, M., **Rose, M.K.**, Sindhu, S. and Kar, D. 2011. Plasma biochemical profile in buffaloes suffering from digestive disorders. Paper accepted and abstract published in compendium of XX Annual Conference of Society of Animal Physiologists of India (SAPI) and International Symposium on Advances in Physiologic Research for Sustainable Development of Livestock and Poultry Production, organized by Department of Veterinary Physiology, WB University of Animal and Fishery Sciences, Kolkata, India, November 2-4, 2011.
- Singh, Preeti, Singh, J., **Rose M.K.**, Gupta. M. and Yadav, P.S. 2011. Effect of different cryoprotectants on cryopreservation of buffalo umbilical cord matrix cells. Abstract in "International Conference on Emerging Trends on Food and Health Security in Cold Desert" held at Defence Institute of High Altitude Research (DIHAR), DRDO, Leh-Ladakh from September 23-25, 2011.
- Madan, J., Puri, J.P., Gupta, M., **Rose, M.K.**, and Sindhu, S. 2011. Rumen metabolism studies in buffaloes suffering from diaphragmatic hernia. Abstract in "14th Biennial Conference of Animal Nutrition Society of India (ANSI)" held at Pantnagar, Uttarakhnad, from November 3-5, 2011.
- **Rose, M.K.**, Puri, J.P. and Parvizi, N. 2010. Pregnancy regulates lymphocytic growth hormone secretion in cattle. Presented poster in Society of Animal Physiologists of India (SAPI) Silver Jubilee International Conference on Physiological Capacity Building in Livestock Under Changing Climate Scenario, organized by Department of Physiology and Climatology, IVRI, Izatnagar, India, November 11-13, 2010.
- Sindhu, S., Gupta, M., **Rose, M.K.** and Puri, J.P. 2010. Seasonal effect on rumen ecosystem of buffalo. Presented poster in Society of Animal Physiologists of India (SAPI) Silver Jubilee International Conference on Physiological Capacity Building in Livestock Under Changing Climate Scenario, organized by Department of Physiology and Climatology, IVRI, Izatnagar, India, November 11-13, 2010.
- Kumar, Rajesh, **Rose, M.K.** and Puri, J.P. 2010. Influence of environmental variations on thyroid hormones level in buffalo. Paper accepted and abstract published in Proceedings of International buffalo Conference, Vol-II, on Optimizing Buffalo Productivity Through Conventional and Novel Technologies, organized by Central Institute for Research on Buffaloes, ICAR, in New Delhi, India, February 1-4, 2010.

- Prasad, R., **Rose, M.K.**, Virmani, M., Garg, S.L., and Puri, J.P. 2008. Garlic (*Allium sativum*) supplementation regulates lipid profile in chicken (*Gallus domesticus*). Paper accepted and abstract published in Compendium of Silver Jubilee Annual Conference and National Symposium of Indian Poultry Science Association, Poultry Production in India: Threats and Oppurtunitie, organized by Department of Poultry Science, College of Veterinary Sciences and Animal Husbandry, Anand Agricultural University, Anand, Gujarat, India, Decedmber 10-12, 2008.
- Prasad, R., **Rose, M.K.**, Virmani, M., Garg, S.L., and Puri, J.P. 2008. Garlic (*Allium sativum*) supplementation controls meat production in chicken (*Gallus domesticus*). Paper accepted and abstract published in Compendium of Silver Jubilee National Symposium on Advances in Veterinary Anatomy Teaching and Research with Reference to Their Clinical Applications and XXIII Annual Convention of Indian Association of Veterinary Anatomists, organized by Department of Veterinary Anatomy and Histology, College of Veterinary Sciences, CCS HAU Hisar, India, November 5-7, 2008.
- **Rose, M.K.**, Puri, J.P. and Parvizi, N. 2008. Age associated variations in plasma growth hormone and gonadal steroid hormone levels in cattle. Paper presented in 17th Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on Current Concepts in Productivity Management in Livestock and Poultry- Environment, Nutrition and Stress, organized by Department of Veterinary Physiology, College of Veterinary and Animal Sciences, Pantnagar, India, February 7-9, 2008.
- Gupta, Meenakshi, Puri, J.P. and **Rose, M.K.** 2008. Effect of different seasons on rumen ecosystem of buffaloes. Paper accepted and abstract published in Compendium of 17th Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on Current Concepts in Productivity Management in Livestock and Poultry- Environment, Nutrition and Stress, organized by Department of Veterinary Physiology, College of Veterinary and Animal Sciences, Pantnagar, India, February 7-9, 2008.
- **Rose, M.K.**, Puri, J.P., Gupta, M., Goyal, R.L., Arya, S.C. and Kar, D. 2008. Plasma enzyme profiles in female buffaloes suffering from diaphragmatic hernia and traumatic reticuloperitonitis. Paper presented in 17th Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on Current Concepts in Productivity Management in Livestock and Poultry- Environment, Nutrition and Stress, organized by Department of Veterinary Physiology, College of Veterinary and Animal Sciences, Pantnagar, India, February 7-9, 2008.
- Puri, J.P., Gupta, M. and **Rose, M.K.** 2007. Rumen Micro-organisms and Rumen Fermentation Pattern as Affected in Buffaloes Suffering from Diaphragmatic Hernia. Paper accepted and abstract published in Compendium of National Symposium on Animal Resource Development Through Physiological, Nuclear Genetic and Biotechnological Interventions and XVI Conference of Society of Animal Physiologists of India (SAPI), organized by Department of Veterinary Physiology, College of Veterinary Sciences, Guhawati, India, January 10-12, 2007.
- **Rose, M.K.**, Puri, J.P. and Parvizi, N. 2006. Plasma Growth Hormone Levels During Various Reproductive Phases in Cattle. Presented paper in XXII Annual Conventionand National Symposium on Innovative Technologies for Fertility Enhancement in Livestock organized by Indian Society for Study of Animal Reproduction (ISSAR), held at College of Veterinary Sciences, Mhow (MP),India, November 10-12, 2006.
- **Rose, M.K.**, and Garg,S.L. 2006. Variations in peripheral concentrations of aminotransferases in female buffalo calves as a function of age. Abstract in "XV Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on Newer Concepts and Development in Endocrine Regulation for Optimization of Production in Buffalo," organized at Bombay Veterinary College, Mumbai, India, January 5-7, 2006.
- Puri, J.P., Gupta, Meenakshi, Goyal, R.L. and **Rose,M.K.** 2006. Rumen micro-organism, some other rumen and blood metabolites as affected by traumatic reticulo-peritonitis in buffalo. Abstract in " XV Annual Conference of Society of Animal Physiologists of India (SAPI) and National Symposium on Newer Concepts

and Development in Endocrine Regulation for Optimization of Production in Buffalo," organized at Bombay Veterinary College, Mumbai, India, January 5-7, 2006.

- Puri, J.P., Gupta, M. Goyal, R.L., **Rose, M.K.** and Krishnamurti, D. 2003. Rumen ecosystem and blood metabolites as affected in buffaloes suffering from diaphragmatic hernia. Abstract in 4th Asian Buffalo Congress on "Buffalo for food security and rural employment" ISBD and Asian Buffalo Association, New Delhi, India, February, 25-28, 2003.
- Puri, J.P. and **Rose, M.K.** 2002. Management of radioisotopes and hazardous chemicals used in research studies in veterinary profession institutions. Abstract in 28th Indian Veterinary Conference of Indian Veterinary Association on "Biological threats and disaster management- Role of veterinarians," held at Punjab Agricultural University, Ludhiana, India. August 9-11, 2002.
- Puri, J.P., and **Rose, M.K.**, Sahu, A. and Krishnamurthy, D. 2001. Changes in rumen and blood metabolites in diaphragmatic hernia cases in buffaloes. Paper presented in Xth Animal Nutrition Conference, held at NDRI, Karnal, India, November 9-11, 2001.
- Garg, S.L., Rathee, S.S., **Rose, M.K.** and Agarwal, V.K. 2001. Age associated variations in peripheral concentration of phosphatases during various developmental stages in female buffalo calves. In: Abstracts of XIIth Annual Conference of Society of Animal Physiologists of India and National Symposium on Constraints and Strategies in Augmenting Livestock Production in Hill Agro-Ecosystem," held at CSKHPKV, Palampur, India. October 18-19, 2001.
- **Rose, M.K.**, Garg, S.L., Saini, M.S. and Agarwal, V.K. 2001. Variations in biochemical constituents in growing female buffalo calves during their first year of age. In: Abstracts of XIIth Annual Conference of Society of Animal Physiologists of India and National Symposium on Constraints and Strategies in Augmenting Livestock Production in Hill Agro-Ecosystem," held at CSKHPKV, Palampur, India. October 18-19, 2001.
- Garg, S.L.; Singh, Kuldeep; **Rose, M.K.**; Singh, Prem and Agarwal, V.K. 1999. Plasma cortisol and thyroid hormone concentrations in buffaloes affected with traumatic pericarditis. In : "Abstracts of International Conference on Sustainable Animal Production, Health and Environment : Future Challenges" held at CCS HAU, Hisar, India, November 24-27, 1999.
- Garg, S.L.; **Rose, M.K.**; Saini, M.S.; Singh, N. and Agarwal, V.K. 1998. Age associated variation in peripheral concentrations of certain hormones in female buffalo calves during their first year of age. Presented in "National Symposium of changing role of biochemistry and biotechnology in livestock health and production and first convention of Society of Veterinary Biochemists and Biotechnologists of India" held at IVRI, Izatnagar, India, April 16-17, 1998.
- Garg, S.L.; **Rose, M.K.**; Saini, M.S.; Singh, N. and Agarwal, V.K. 1998. Age associated variations in peripheral concentration of certain metabolites in female buffalo calves during their first year of age. Presented in "National Symposium of changing role of biochemistry and biotechnology in livestock health and production and first convention of Society of Veterinary Biochemists and Biotechnologists of India" held at IVRI, Izatnagar, India, April 16-17, 1998.
- Sihag, S.S.; Garg, S.K.; **Rose, M.K.** and Nangia, O.P. 1997. Haematological response of partial water deprivation and subsequent rehydration in buffalo calves. In "Abstracts of XI Annual Conference Society of Animal Physiologists of India" held at Bangalore, India, Nov. 24-26, 1997.
- Sihag, S.S.; **Rose, M.K.**; Nangia, O.P. and Garg, S.K. 1997. Effect of partial water restriction and subsequent rehydration in buffalo calves. In : "Abstract of new goals in physiology for 21st century with the advent of Biotechnology" organised by Indian Physiological Societies at Tirupati, India, September, 15-17, 1997.
- Inderjeet and **Rose, M.K.** 1995. Stress and reproduction. In : Proceedings of the Symposium on Research and Development in Management of Surgical and Reproductive Disorders in Veterinary Practice and National Seminar on Veterinary Education" held at CCSHAU, Hisar, India, October, 19-21, 1995.

- **Rose M.K.**, Verma, S.P. and Rao, A. R. 1994. Effects of chronic administration of adrenalin and its blockers to mother mice on the sex ratio of their progeny. Research paper was presented at the XXVI Annual Conference of Indian Pharmacological Society, held at CCS HAU Hisar, India, November 25-27, 1993 and Abstract was published in Indian Journal of Pharmacology. **26**: 64-65.

Popular articles

- Gera, S., Guha, A. and **Rose, M. K.** 2009. Veterinary Acupuncture General Considerations. Pet India. **15** (2): 18-21.
- Garg, S.K. and **Rose, M.K.** 1999. AIDS - Time to act, Veterinarians. Pet India. **5**(12): 18.