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|   | <b>Dr. Sonia Sindhu</b>   |
|   | <b>Professor</b>  |
|  | <p>Department of Veterinary Physiology and Biochemistry<br/>Lala Lajpat Rai University of Veterinary &amp; Animal Sciences,<br/>Hisar-125004 (Haryana) India</p> <p>Phone: 01662 230854</p> <p>Mobile: +919416961031</p> <p>E-mail: <a href="mailto:sonia.sindhu@luvas.edu.in">sonia.sindhu@luvas.edu.in</a></p>  |
| <b>Educational Qualifications</b>   | <p>1990 B.V.Sc &amp; A.H., HAU, Hisar<br/>1992 M.V.Sc., CCS HAU, Hisar<br/>2005 Ph.D., University of Strathclyde, UK</p>  |
| <b>Employment Details</b>   | <p>Professor Oct., 2012 –till date<br/>Associate Professor Oct., 2006 – Oct., 2012<br/>Assistant Professor May, 1995 – May, 2001</p>  |
| <b>Research Interests</b>   | Animal Physiology   |
| <b>Award and Recognitions</b>   | <p>Awarded 'University of Strathclyde Award' fellowship for Ph.D.<br/>Awarded CCS HAU Merit fellowship for M.V.Sc.</p>  |
| <b>Membership of scientific societies</b>   | <p>Life member of Society of Animal Physiologists of India.<br/>Registered member of Haryana Veterinary Council.</p>  |
| <b>Selected Publications</b>  | <p>Madan, J., <b>Sindhu, S.</b>, Gupta, M., Rose, M.K.and Yadav, A.S. 2017. Age associated variations in biochemical profile in Beetal goats. <i>Haryana Veterinarian</i>. 56(1): 63-65.</p> <p>Madan J., <b>Sindhu S.</b>, Gupta M. and Kumar S. (2016) Hematobiochemical profile and mineral status in growing Beetal goat kids. <i>Journal of Cell and Tissue Research</i>. Vol. 16(1) pp 5 517-5522.</p> <p>Rose, M.K., Gupta, M. and <b>Sindhu, S.</b> 2015. <i>Practical Veterinary Physiology</i>. Kalyani Publishers, Ludhiana, Delhi. Pp 1-210.</p> <p>Madan J., Sindhu S., Gupta M. and Poonia, J. S. (2015). Evaluation of <i>Embllica officinalis</i> and <i>Mentha piperata</i> supplementation on biochemical parameters in growing beetal kids. <i>Journal of Cell and Tissue Research</i> Vol. 15(1) pp 4811-4814.</p> <p>Madan, J., Gupta, M., Rose, M.K., <b>Sindhu, S.</b> and Kar, D. 2013. Metabolic alterations in buffaloes suffering from digestive disorders. <i>Haryana Veterinarian</i>. <b>52</b>: 71-72.</p> |

Poonia, J.S., Madan, J., **Sindhu, S.** and Gupta, M. 2013. Effect of supplementing *Mentha piperata* and *Emblca officinalis* on growth performance of beetal kids. *Haryana Veterinarian*.**52**: 73-74.

Rose, M.K., Puri, J.P., Gupta, M., **Sindhu, S.** and 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.

M K Rose, Meenakshi Gupta, J P Puri, **Sonia Sindhu** and Suresh Chander (2009) Rumen ecosystem and blood metabolite alterations in buffaloes suffering from diaphragmatic hernia. *Indian Journal of Animal Physiology*. **4**(2): 72-74.

**Sindhu, S** and Garg S L. 2008. Effect of defaunation on rumen fermentative pattern in buffaloes *Haryana Veterinarian*. **47**: 64-67.

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.

Gupta Meenakshi, Nangia O P, **Sindhu S** and Garg S K. (2001) Effect of varying levels of rumen ammonia concentration on certain blood constituents. *Indian Journal of Animal Sciences*.**71** (7): 696-697.

Nangia O P, Gupta M, **Sindhu S** and Garg S K. (1999) Influence of Niacin supplementation on rumen fermentation and microbial protein synthesis in buffaloes. *Indian Journal of Animal Sciences*.**70** (7): 764-765.

### Detailed List of Publications

#### Practical manuals

- Rose M.K., Sindhu, S. and Gupta, M. 2016. Laboratory Manual of Veterinary Physiology Paper-I. (Unit-1 and Unit-2). Department of Veterinary Physiology and Biochemistry, College of Veterinary Sciences, LUVAS, Hisar, India. (As per VCI Regulation 2016)
- Rose M.K., Sindhu, S., Gupta, M. and Malik, R.K. 2016. Laboratory Manual of Veterinary Physiology Paper-II (Unit-3 and Unit-4). Department of Veterinary Physiology and Biochemistry, College of Veterinary Sciences, LUVAS, Hisar, India. (As per VCI Regulation 2016)
- 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. (As per VCI Regulation 2008)
- 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. (As per VCI Regulation 2008).
- 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. (As per VCI Regulation 2008).
- Sonia Sindhu and Meenakshi Gupta, 2011. Laboratory Manual 'Human Physiology'. (for Course No. FN-511). *Department of Veterinary Physiology and Biochemistry, College of Veterinary Sciences, LLRUVAS, Hisar, India.*

Paper presented/ Abstracts published in conferences/symposia/seminars

- Madan, J., Sindhu, S., Rose M.K. and Gupta, M. 2017. Effect of medicinal plant extracts on in-vitro rumen fermentation parameters. Poster presented and abstract published in XVII annual conference of “Indian Society of Veterinary Pharmacology and Toxicology” and National seminar on “Combating Antimicrobial Resistance”, organized by Department of Veterinary Pharmacology and Toxicology, College of Veterinary Sciences at LUVAS, Hisar, India, December 20-22, 2017.
- Madan, J., Sindhu, S., Gupta, M., Rose, M.K. and Yadav, A.S. 2017. Age associated variations in biochemical profile in Beetal Goats. Paper accepted and abstract published in National seminar on “Improvement of small ruminant production system for livelihood security”, organized by Indian Society for Sheep and Goat Production and Utilization at ICAR-CSWRI, Awikanagar, India, March 9-10, 2017.
- Madan, J., Sindhu, S., Gupta, M. and Yadav, A.S. (2016). Biochemical parameters and mineral profile in growing Beetal kids. Abstract published in proceedings SAPI XXV Annual Conference of SAPICON 2016 and National Symposium .S.IV.01 pp 126, held at Mhow, M.P. on Dec 21-23, 2016.
- Poonia, J.S., Madan, J., **Sindhu, S.** and Gupta, M. 2013. Effect of supplementing *Mentha piperata* and *Emblica officinalis* on growth performance of beetal kids. Compendium, *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 at Department of Veterinary Physiology, College of Veterinary Science and Animal Husbandry, Mathura, India, November 19-21, 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.
- 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 XXII 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.
- 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 “14<sup>th</sup> Biennial Conference of Animal Nutrition Society of India (ANSI)” held at Pantnagar, Uttarakhand, from November 3-5, 2011.
- 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
- Sindhu, S., Rowan, E. and Prior, C. (2004) Differential release of ACh from the mouse hemidiaphragm muscle by high-K and high frequency nerve stimulation. Presented in *BPS Winter meeting held at University of Newcastle, UK* from Dec 14-16, 2004.
- Sindhu, S., Rowan, E. and Prior, C. (2004) The modulation of KCl-evoked ACh release from the mouse hemidiaphragm muscle studied using fluorescent microscopy. Presented in *BPS Winter meeting held at University of Newcastle, UK* from Dec 14-16, 2004.