

CURRICULUM VITAE



Dr. Ravindra Kumar

M. V. Sc., Ph D

Senior Scientist (Animal Nutrition)

Indian Council of Agricultural Research (ICAR)

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Central Institute for Research on Goats (CIRG)

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Academic qualifications

- **Ph.D. (Animal Nutrition)**
Indian Veterinary Research Institute,
Izatnagar, Bareilly (UP) – 243 122
- **M. V. Sc. (Animal Nutrition)**
Indian Veterinary Research Institute,
Izatnagar, Bareilly (UP) – 243 122.
- **B. V. Sc. & A.H.**
College of Veterinary Science and Animal Husbandry
Mathura (DUVASU).

Awards

- Best oral presentation award 7th Biennial conference of Animal Nutrition Association
- Senior Research Fellowship during Ph.D.(Animal Nutrition)
- Junior Research Fellowship (ICAR) in M. V. Sc. (Animal Nutrition)
- University Merit Scholarship during B. V. Sc. & A.H.
- UNIVERSITY SILVER MEDAL in B. V. Sc. & A.H.
- CSIR-NET qualified
- ICAR –NET (Animal Nutrition)

Professional Experience:

- More than seven years of experience
- Guided two M. V. Sc. and one PhD student
- Scientific reviewer of many reputed journals

Area of expertise

1. Rumen microbiology and biotechnology: Cloning and sequencing of rumen methanogens, bacteria, microbial diversity study of rumen microbes, diet related changes in microbial population etc.
2. Animal experimentation on large ruminants and goats
3. Feed development, analysis and techniques

Publications

Research papers: 18

Gene Bank submission: 06

Others (Book chapters/ technical articles): 40

Booklets: 02

Training Manual: 01

Leaflets/display: 5

INTERNATIONAL PUBLICATIONS

1. Patra, A.K., Kamra, D.N., Bhar, R., **Kumar, R.** and Agarwal N. Effect of *Terminalia chebula* and *Allium sativum* on *in vivo* methane emission by sheep. *Journal of Animal physiology and Animal Nutrition*, no. doi: 10.1111/j.1439-0396.2010.01039.x
2. Singh, A. Sharma, R .K., **Kumar, Ravindra** and Barman, K.(2010) Effect of replacement of concentrate mixture with isonitrogenous leaf meal mixture on growth, nutrient utilization and rumen fermentation in goats. *Small Ruminant Research*. **91**:132-140
3. Agarwal, N , Shekhar, C., **Kumar, R.**, Chaudhary, L.C. and Kamra, D.N. (2009) Effect of peppermint (*Mentha piperita*) oil on fermentation of feed and methanogenesis in *in vitro* gas production test. *Animal feed science Technology*. 148: 321-327.
4. Kamra, D.N., Patra, A. K., Chatterjee, P. N. **Kumar, R.**, Agarwal, N. and Chaudhary, L.C. (2008). Effect of plant extracts on methanogenesis and microbial profile of the rumen of buffalo: a brief overview. *Australian journal of Experimental Agriculture*. **48**:175-178.
5. Agarwal, N, Kamra, D.N., Chatterjee, P. N., **Kumar, R.**, and Chaudhary, L.C. (2008) *In vitro* methanogenesis, microbial profile and fermentation of green forages with buffalo rumen liquor as influenced by 2-Bromoethanesulphonic Acid. *Asian-Australasian Journal of Animal Science*. **21**: 6, 818

6. **Kumar, R.**, Kamra, D. N., Agarwal, N. and Chaudhary, L. C. (2007) *In vitro* methanogenesis and fermentation of feeds containing oil seed cakes with rumen liquor of buffalo. *Asian-Australasian Journal of Animal Science*, **20(8)**:1196-1200.
7. **Kumar, R.** and Dass, R.S. (2006). Effect of niacin supplementation on growth, nutrient utilization and blood biochemical profile in male buffalo calves. *Asian-Australasian Journal of Animal Science*, **19(10)**: 1422-1428.
8. **Kumar, R.** and Dass, R.S. (2005). Effect of niacin supplementation on rumen metabolites in murrah buffaloes (*Bubalus bubalis*). *Asian-Australasian Journal of Animal Science*, **18(1)**: 38-41.

Research paper in Indian Journals

9. Sachan, J., **Kumar Ravindra**, Kumar V. and Roy D. (2013) Screening of condiments and spices as potential feed additive using *in vitro* gas production tests. *Indian Vet. J.*, 90 (3): 125-126.
10. Vaswani S., **Kumar Ravindra**, Kumar V. and Roy D. (2012) Evaluation of different wheat straw varieties for chemical composition, gas production and digestibility pattern *in vitro*. *Indian Journal of Animal production and Management*. 28(122) 29-31.
11. Gupta, A. ,Tripathi, P ,Tripathi M.K., Dutta, T.K., **Kumar Ravindra** and Chaudhary U.B. (2012).Microbial and chemical changes in goat manure during composting and vermin composting. *Indian journal of small ruminants*. 18(2) 207-211.
12. Mir, I. A. and **Kumar, Ravindra** (2012) Effect of feeding fenugreek seeds (*Trigonella foenum-graecum*) as feed additive on nutrient utilization in goats. *Indian Journal of Animal Nutrition*. 29(3):256-261.
13. **Kumar, R.**, Kamra, D.N., Agarwal, N. and Chaudhary, L. C. (2011) Effect of feeding a mixture of plants containing secondary metabolites and peppermint oil on rumen fermentation, microbial profile and nutrient utilization in buffaloes. *Indian Journal of Animal sciences*. **81** (5): 488–92
14. **Kumar, R.**, Kamra, D. N., Agarwal, N. and Chaudhary, L. C. and Zadbuke, S. (2011) Effect of tree leaves containing plant secondary metabolites on *in vitro* methanogenesis and fermentation of feed with buffalo rumen liquor. *Animal Nutrition and Feed Technology* 11:103-114.
15. Mir, I. A., **Kumar, Ravindra**, Sharma, R .K. and Barman, K (2010) Effect of addition of herbs on *in vitro* digestibility of feed with rumen liquor of goat. *The Indian Journal of Veterinary Research*, 19 (1)13-18.

16. **Kumar Ravindra**, Kamra D.N., Agarwal Neeta and Chaudhary L.C. (2009) Effect of Eucalyptus (*Eucalyptus globules*) oil on *in vitro* methanogenesis and fermentation of feed with buffalo rumen liquor. *Animal Nutrition and Feed Technology* 9 : 237-243
17. Singh, A., Sharma, R .K., Barman, K. and **Kumar, Ravindra** (2009) Nutritional evaluation of some promising top foliages. *Journal of Research, SKUAST-J*, Vol. 8, No-2 116-122.
18. Chaudhary, L. C., Kamra, D. N., Agarwal, N. and **Kumar, R.** (2006) Evaluation of *Morinnga oliefera* leaves in sheep. *Indian Journal of Animal Nutrition*, **23(3)**: 196-198.

Gene Bank Submission

1. **Kumar Ravindra**, Agarwal N., Kamra D.N and Chaudhary L.C.(2008) FJ 040811- Uncultured archaeon clone IVRI-RM -001 16 S ribosomal partial sequence (NCBI).
2. **Kumar Ravindra**, Agarwal N., Kamra D.N and Chaudhary L.C.(2008)FJ 040813- Uncultured archaeon clone IVRI-RM -002 16 S ribosomal partial sequence (NCBI).
3. **Kumar Ravindra**, Agarwal N., Kamra D.N and Chaudhary L.C.(2008)FJ 040814- Uncultured archaeon clone IVRI-RM -003 16 S ribosomal partial sequence (NCBI).
4. **Kumar Ravindra**, Agarwal N., Kamra D.N and Chaudhary L.C.(2008)FJ 040815- Uncultured archaeon clone IVRI-RM -004 16 S ribosomal partial sequence (NCBI).
5. **Kumar Ravindra**, Agarwal N., Kamra D.N and Chaudhary L.C.(2008)FJ 040816- Uncultured archaeon clone IVRI-RM -005 16 S ribosomal partial sequence (NCBI).
6. **Kumar Ravindra**, Agarwal N., Kamra D.N and Chaudhary L.C.(2008)FJ 040817- Uncultured archaeon clone IVRI-RM -006 16 S ribosomal partial sequence (NCBI).

ORGANISATION OF TRAINING PROGRAMS/ CONFERENCES

1. Organised as co-course director National training on “Advances in nutrient use efficiency in Livestock production system” from Jan28-Feb 10, 2012 in NFR&PT Div. CIRG, Makhdoom
2. VI Biennial Conference of Animal Nutrition Association
3. Member of **National Coordination Committee** of World Animal Nutrition Conference-2009 held at NAAS complex, New Delhi.