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Senior Scientist (Animal Nutrition)  
National Research Centre on Yak (ICAR)  
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### SCHOLARLY INTERESTS:

My research interests include identification and evaluation of region specific unconventional feed/fodder resources, their processing and conservations techniques and strategic feeding of livestock. Currently, my main focus is to establish the feeding standards for different categories of yaks in relation to different physiological conditions, to compensate the loss in term of body weight gain as well as the milk production in yak due to severe winter through application of different conservation techniques in yaks like compressed feed block technology, ensiling, urea molasses mineral block and Area Specific Mineral Mixture preparation etc. Already starts preparation of silage and their analysis both *in-vitro* and *in-vivo* are going on. I am also interested to study the ecology of rumen microbial profiles and to mitigate the methanogenesis in yaks. I have a well-equipped nutrition laboratory, if you are interested in joining my lab at NRC on Yak, Dirang, ARP, India, please contact me.

### PROFESSIONAL EXPERIENCE:

Sl. No	Designation	Name of Employer	Period	
			From	To
1.	Senior Research Fellow (SRF)	Director of Research (Vety.), Assam Agricultural University	08-02-2002	17-09-2004
2.	Principal Investigator	Project Director, TAGS, Kumarikata, Baska, Assam	17-03-2006	23-04-2007
3.	Research Associate (RA)	Director, NRC on Mithun, ICAR, Medziphema, Nagaland	24-04-2007	23-07-2007
4.	Assistant Professor (Animal Nutrition)	Vice Chancellor, SKUAST-K, Kashmir	27-07-2007	24-04-2012
5.	Senior Scientist (Animal Nutrition)	Director, National Research Centre on Yak, Dirang, Arunachal Pradesh	25-04-2013	Till date

### RESEARCH EXPERIENCES:

- Project title:** Effect of feeding Urea treated paddy straw on growth, nutrient utilization and economy of feeding in growing crossbred calves (39<sup>th</sup> SKUAST-K, Research Committee Meeting Approved).
- Project title:** Comparative studies on the nutritive values of different types of silages in crossbred growing calves (40<sup>th</sup> SKUAST-K, Research Committee Meeting Approved).
- Project title:** Effect of flushing on fecundity in ewes (43<sup>rd</sup> SKUAST-K, Research Committee Meeting Approved, ANN-43.2.1.)

- d. **Project title:** Performance of growing lambs fed on untreated or formaldehyde treated mustard oil cake (44<sup>th</sup> SKUAST-K, Research Committee Meeting Approved, ANN-44.2.1.)
- e. **DBT sponsored project title:** Manipulation of Rumen Fermentation for Improving Growth Performance of growing animals (PI since 1st April'2013)
- f. **AICRP project title:** Improvement of feed resources and nutrient utilization in raising Animal Production (as PI since 1<sup>st</sup> April'2013)
- g. VTCC project title: Network project on "Veterinary Type culture-Rumen Microbes" (as P.I. since 26<sup>th</sup> June'2012)
- h. **Institute Project title:** Conservation of forages through ensiling for improvement of yak production in India (as P. I. since June'2012)
- i. Institute Project title: Effect of plane of nutrition on growth performance, nutrient utilization and reproduction in calves (as P. I. since April'2013)

### PUBLICATIONS:

#### A. Research papers published:

Sl. No	Author's	Year	Title	Journal
	Mondal, G., Sarkar, T. K., Khan, H. M., <b>Medhi, D.</b> and Bhakat, M.	2013	Copper and zinc supplementation in Corriedale lambs in organized Farm of Kashmir Valley: A preliminary study	Indian J. Anim. Nutr. 30(2):145-148
1.	S.H.Bhat, D. Medhi, H.A. Ahmed and F.A. Matto	2013	Nutritional Status of Dairy Cattle in the North-Western Himalayan Region of the Kashmir Valley	Iranian J. Applied Animal Science (2013) 3(1):31-37
2.	Bhat, S. H., Mattoo, F. A., Medhi, D., Ahmed, H. A., Yasir Afzal and Reshi, P.A.	2013	Nutritional status of growing calves in district Kupwara of Kashmir valley	Indian J. Anim. Res. 47(1):40-44
3.	S. H. Bhat, F. A. Mattoo, D. Medhi, H. A. Ahmad and Y. Afzal	2012	Nutritional status of dairy cattle in kupwara district of Kashmir	Indian J. Field Veterinarians 7(3):67-70
4.	S. H. Bhat, H. A. Ahmad, D. Medhi, and A. M. Ganai	2012	Feeding practices of cart pulling horses in Kashmir valley	Indian J. Field Veterinarians 7(4):57-58
5.	N.A. Bhat, D. Medhi and Yasir Afzal	2012	In vitro digestibility of mulberry tree leaves containing diets	Indian J. Anim. Nutr. 29(3):238-242
6.	Hussain J., Bhat A. S. and <b>Medhi D.</b>	2011	Economics of rearing early weaned crossbred dairy calves.	Indian Vet. J. 88(3):42-44
7.	Bulbul, K. H., Ahmed H. A., <b>Medhi D.</b> and Wani G. A.	2011	A survey on the availability of feeds and animal products in Budgam district of Kashmir valley	Indian J. Field Veterinarians 6(4):52-53
8.	Ahmed H. A., Ganai, A. M., Mattoo, F. A., Shad, F. I., Billal, S. and <b>Medhi D.</b>	2011	Performance of lambs on grain-less ration with mulberry leaves	Indian Vet. J. 88(8):96-99
9.	<b>Medhi D.</b>	2011	Effect of enzyme supplemented diet on finishing crossbred pigs at different levels of silk worm pupae meal in diet	Indian J. Field Veterinarians 7(1):24-26
10.	Raja, W., Bhat, A.S. and <b>Medhi D.</b>	2011	Production potential of fodder Oat (Avena sativa L.) based cropping sequences with different sources of	Applied Biological Research 13(2):89-93

- nitrogen under temperate climatic conditions of Kashmir
11. Bulbul, K. H., **Medhi D., D.**, 2011  
Hussain, J. and Ahmed H. A. Hitek in the treatment of endo and ecto-parasitism in small ruminant Environment and Ecology, 29(4): 1937-38
  12. **Medhi D.**, Bhat, A.S.; 2010  
Hussain, J. and Raja, W. Utilization of fallen tree leaves as silage in crossbred growing calves Indian Vet. J. 87:475-477
  13. **Medhi D.**, Bhat, A.S.; 2010  
Hussain, J. and Raja, W. Comparative study on the nutritive values of Oats and Maize silage in crossbred growing calves Indian J. Anim. Res. 44(1):58-60
  14. **Medhi D.**, Ahmed, H. F. and 2009  
Buragohain, P. Efficacy of different growth promoters on voluntary feed intake and nutrient digestibility in broilers Indian J. Anim. Nutr. 26(1):94-96
  15. **Medhi D.**, Nath N. C. and 2009  
Sharma, D. N. Effect of silk worm pupae meal and enzyme supplementation on blood constituents in pigs. Indian Vet. J. 86(4):107-108
  16. **Medhi D.**, Baruah, K. K. and 2009  
Baishya, H. Performance of crossbred (Hampshire X Assam local) pigs on different feeding regimes Indian Vet. J. 86(7):41-44
  17. **Medhi D.**, Nath N. C., 2009  
Gohain A. K. and Bhuyan, R. Effect of silk worm pupae meal on carcass characteristics and composition of meat in pigs Indian Vet. J. 86(8):816-818
  18. JakirHussain, Shaheen, M, 2009  
Bhat, A. S., Ganai, N. A. and **Medhi D.** Effect of milk feeding intervals on growth performances of crossbred Jersey calves. Indian Vet. J. 86(10):1057-1059
  19. **Medhi D.**, Jakir Hussain, 2009  
Bhat, A. S., Waseem Raja and Ahmed H. A. Effect of urea treated paddy straw based diets on the performances of calves Indian Vet. J. 86(12):1253-1256
  20. Ahmed H. A., Medhi A. K., 2009  
Brahma, M. L. and **Medhi D.** Effect of dietary protein and energy levels on the performance of indigenous chicken of Assam Indian J. Anim. Nutr. 26(3):283-286
  21. **Medhi D.**, Jakir Hussain, 2009  
Bhat, A. S., Waseem Raja and Ahmed H. A. Nutritional evaluation of hybrid Phalaris (Phylarisstenopectera) in crossbred growing calves. Indian J. Anim. Nutr. 26(2):156-157
  22. Bhuyan, R., **Medhi D.**and 2007  
Baruah, K.K. Availability of feed resources and the feeding pattern in the hill region of Assam Indian J. Anim. Nutr. 24(2):80-85
  23. Prakash, B., Rathore, S. S., 2007  
Das, K. C., Walling, I., Dhali, A., **Medhi D.**, Hazrika, H. and Rajkhowa, C. In situ degradability of forest based foliages in Mithun Indian J. Anim. Nutr. 24(4):241-247
  24. Bhuyan, R., **Medhi D.**, 2005  
Saikia, B. N. and Saikia, J. K. Utilization of rice (Oryza sativa) fermented waste in the grower ration of pig. Indian Vet. J. 82(2):165-168
  25. Bhuyan, R., **Medhi D.**, 2005  
Konwar, B. K., Baruah, K.K and Gohain, A. K. A critical appraisal on the production of crop and crop residues in the hill agro-climatic zone of Assam Indian J. Anim. Nutr. 21(2):137-139
  26. **Medhi D.**, Ahmed, H. F., 2003 Effect of dietary Ajar seed meal Indian Vet. J.

	Konwar, B. K. and Chakravarty, P.		with or with-out multi-enzyme supplementation on the voluntary feed intake and nutrient digestibility in broilers.	80(7):667-671
27.	<b>Medhi D.</b> , Ahmed, H. F., Konwar, B. K. and Chakravarty, P.	2003	Influence of enzyme supplementation on the carcass characteristics and mortality rate of broilers fed diet containing different levels of Ajar seed meal	Indian J. Anim. Nutr.20(2):232-236
28.	Buragohain, P., Ahmed, H.F. and <b>Medhi D.</b>	2003	Efficacy of different growth promoters on the performance of broilers	Indian J. Anim. Nutr.20(3):368-72
29.	Bhuyan, R., Sharma, D. N., <b>Medhi D.</b> and Baruah, K. K.	2003	Nutritive value of Miri ( <i>Sabialanceolata</i> ) leaves in Goats	Indian J. Anim. Nutr. 20(4):461-462
30.	<b>Medhi D.</b> , Ahmed, H. F. and Konwar, B. K.	2002	Influence of enzyme supplementation on the performance of broilers fed diet containing different levels of Ajar seed meal	Indian J. Poult. Sci. 37(1):99-101
31.	<b>Medhi D.</b> and Ahmed, H. F.	2001	Effect of maize with Ajar seed meal in the diets of broiler chicken on the voluntary feed intake and nutrient digestibility	Indian J. Anim. Nutr. 18(4):353-356

#### **B. CONFERENCE/SEMINAR ABSTRACTS PUBLISHED:**

- a) **Medhi, D.**, Ahmed, H. F., Konwar, B. K. and Chakravarty, P. (2003). Influence of enzyme supplementation on the carcass characteristics and mortality rate of broilers fed diet containing different levels of Ajar seed meal. Proceeding of 4<sup>th</sup> Biennial ANA Conference held at WBUAFS, Kolkata w.e.f. 20-22<sup>nd</sup> Nov.'2002
- b) Bhuyan, R., **Medhi, D.**, Konwar, B. K., Baruah, K.K and Gohain, A. K. (2005). A critical appraisal on the production of crop and crop residues in the hill agro-climatic zone of Assam. Proceeding of 4<sup>th</sup> Biennial ANA Conference held at WBUAFS, Kolkata w.e.f. 20-22<sup>nd</sup> Nov.'2002
- c) Bhuyan, R., **Medhi, D.**, Saikia, B. N. and Saikia, J. K. (2005). Utilization of rice (*Oryza sativa*) fermented waste in the grower ration of pig. Proceeding of 4<sup>th</sup> Biennial ANA Conference held at WBUAFS, Kolkata w.e.f. 20-22<sup>nd</sup> Nov.'2002
- d) Bhat, N. A., **Medhi, D.** and YasirAfzal (2012) Evaluation of mulberry tree leaves based diets on the performances of Corriedale lambs. Animal Nutrition Research strategies for food security. Proceedings of 8<sup>th</sup> Biennial ANA Conference held at Bikaner, Rajsthan, India w.e.f. 28-30<sup>th</sup> November'2012, pp-25
- e) **Medhi, D.**, Ganai, A. M., Ahmed, H. A. and YasirAfzal (2012) Performances of Corriedale lambs on formaldehyde treated mustard oil cake based diet. Animal Nutrition Research strategies for food security. Proceedings of 8<sup>th</sup> Biennial ANA Conference held at Bikaner, Rajsthan, India w.e.f. 28-30<sup>th</sup> November'2012, pp-26
- f) **Medhi, D.**, Gohain, A. K. and Ahmed H. F (2012) Performance of crossbred pigs fed different levels of silk worm pupae meal with or without supplementation of enzymes. Animal Nutrition Research strategies for food security. Proceedings of 8<sup>th</sup> Biennial ANA Conference held at Bikaner, Rajsthan, India w.e.f. 28-30<sup>th</sup> November'2012, pp-100

**C. POPULAR SCIENCE (LAYMAN) ARTICLES PUBLISHED:**

- i) Bulbul, K. H., **Medhi, D.**, Ahmed H. A., Akand, A. H. and Hafiz, A.: Gumboro: A high mortality causing disease in broiler. The North East Veterinarians: Vol. **IX**: 27-28
- ii) Bulbul, K. H., **Medhi, D.**, Islam, S. and Wani G. A. Vanaraja for backyards free range poultry farming. The North East Veterinarians: Vol. **IX**: 4-6

**D. CLINICAL ARTICLES:**

- i) Bulbul, K. H., **Medhi, D.**, Hussain, J. and Ahmed H. A. (2008) A case of ruminal acidosis in a goat. Indian J. Field Veterinarians **4**(3):64

**D. MANUAL/COMPENDIUM/NEWS LATTER PUBLISHED:**

- a) Practical Manual for BVSc & AH Course No-ANN-111 (*Principle of Animal Nutrition and Feed Technology*) published by SKUAST-K, Shalimar, Jammu and Kashmir
- b) Contributed article on “Nutritional management of breeding bulls” authored by Medhi D. for Technical Training Manual on “*Recent advances in artificial insemination of Yak*” Sponsored by National Research Station on Yak (ICAR), Dirang, West Kameng District , Arunachal Pradesh, March 21-23, 2013

**PARTICULARS OF MEMBERSHIP IN ACADEMICS/SOCIETIES/PROFESSIONAL BODIES:**

- i) A permanent member of Assam Veterinary Council.
- ii) Annual member of Indian Veterinary Journal.
- iii) A permanent member of Animal Nutrition Association, India
- iv) A permanent member of Society of Animal Nutrition, India