



**JOKEN BAM, PhD** (continued)  
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### Scholarly Interests

My research interest includes studies related to parasite biology, ecology, transmission and disease dynamics. I am also interested in studying anthelmintic resistance, ethnoveterinary medicines and molecular parasitology. In future I would like to work on GIS and RS based ecological study of Yak parasites.

### PROFESSIONAL EXPERIENCE

2008-2009            Veterinary Officer, Department of Animal Husbandry and Veterinary,  
Govt. of Arunachal Pradesh, India.  
2009, Dec-Present    Scientist, National Research Centre on Yak, Dirang  
Arunachal Pradesh, India

### HONOURS AND RECOGNITION

1. Brilliant Achievers Award by Galo Welfare Society for 2012.
2. Best Oral presentation award by Indian Society for Veterinary Medicine in 30<sup>th</sup> ISVM National Symposium, 2012. CAU, Aizawl, Mizoram.
3. IVRI-SRF - 2007 for PhD.
4. ICAR-JRF- 2005 for MVSc.

### RESEARCH AWARDS

1. Project title: Monitoring of drug residues and environmental pollutants.  
(External funded- CoPI) ONGOING
2. Project title: Epidemiology and control of blood feeding leech of yak in refugia.  
(External funded - CoPI) ONGOING
3. Project title: Major biotic and abiotic stressors: their impact on yak health.  
(Institutional- CoPI) COMPLETED
4. Project title: Influence of ante partum administration of Vitamin E-Selenium on reproductive and productive efficiency of Yak. (Institutional- CoPI) COMPLETED.
5. Project title: A Socio-Economic Appraisal of Yak Rearing in Arunachal Pradesh.  
(Institutional- CoPI) COMPLETED.
6. Project title: Prevalence and seasonal distribution of parasites in yak of Arunachal Pradesh. (Institutional- PI) COMPLETED

### RESEARCH ARTICLES

1. **Bam, J.**, Kumar, P., Leishangthem, G. D., Saikia, A. and Somvanshi, R. (2012). Spontaneous cutaneous papillomatosis in yaks and detection and quantification of Bovine Papillomavirus 1 and 2. *Transboundary and Emerging Diseases*. Doi:10.1111/j.1865-1682.2012.01361.x.
2. **Bam, J.**, Deori, S., Paul, V., Bhattacharya, D., Bera, A. K., Bora, L. and Baruah, K. K. (2012). Seasonal prevalence of parasitic infection of yaks in Arunachal Pradesh, India. *Asian Pacific Journal of Tropical Diseases*. 2:264-267.

3. **Bam J.**, Bhattacharya D., Pathak P. and Islam S. (2014). Leeches affecting livestock and man in Northeast India. *The Northeast Veterinarian*, **XIV** (1):1-3.
4. Bora, L., **Bam, J.**, Paul, V. and Maiti, S. (2014). Traditional milk, meat processing and preservation techniques of the Yak Pastoralists of Arunachal Pradesh. *Indian Journal Traditional Knowledge*. 13(1):216-221.
5. Bora, L., Paul, V., **Bam, J.**, Saikia, A. and Hazarika, D. (2013). Handicraft skills of Yak pastoralist in Arunachal Pradesh. *Indian Journal Traditional Knowledge*. 12(4):718-724.
6. Deori S., **Bam J.** and Paul V. (2014). Efficacy of prepartal vitamin E and selenium administration on fertility in Indian yaks (*Poephagus grunniens*). *Veterinarski Arhiv*, 84: 513-519.
7. Deori, S., **Bam, J.**, Paul, V. and Baruah, K. K. (2013). Epidemiology of of abortion in yaks (*Poephagus grunniens*) under farm conditions. *Indian Journal Animal Research*. 47(2): 178-180.
8. Sanjukta R., Kumar M., Mandakini R., **Bam J.**, Karuna I., Nagappa K. and Singh S. P. (2014). Phylogenetic analysis of CPV isolate of Manipur. *Indian Journal of Animal Science*. **84**(9): 1065-1067.
9. Deori, S. and **Bam, J.** (2012). The timing of parturition and sex ratio in yaks under farm condition. *Indian Journal of Animal Reproduction*. 33(1): 68-70.
10. Islam S., Dutta T. C., **Bam J.** and Pathak P. (2014). First record of an oriental *Auchmeromyia* species. *The Northeast Veterinarian*, **XIV** (1):42.
11. Samanta, S., Raina, O. K. and **Bam, J.** (2007). Heartworm infection in a leopard (*Panthera pardus*) in Buxa Tigre Reserve, West Bengal India. *Journal of Veterinary Public Health*. 58 (5):127-129.

#### BOOK/BOOK CHAPTERS

1. Ahmed, F. U. A., **Bam, J.**, Bera, A. K., Doley, J., Deori, S., Hussain, H., Saikia, A., Maji, C., Mangayang, S. and Bhattacharya, D. (2012). Colour Atlas on Zoonotic Diseases. Published by NRC on Yak, Dirang.

#### POPULAR SCIENCE (LAYMAN) ARTICLES

1. Samanta, S., Bam, J. and Banerjee, P. S. (2008). Ticks: a menace for animal husbandary. *Indian Farming*. 58(5): 27-29.
2. Samanta, S., Raina, O. K and **Bam, J.** (2008). Fasciolosis – the liverfluke disease in animals and man. *Indian Farming*. 58(6): 32-36.
3. Hanah, S., Deori, S. and **Bam, J.** (2012). Management of weaning stress in piglets. *Pashudhan*. **38**: 7.

#### MANUAL/TECHNICAL BULLETIN/COMPENDIUM/NEWS LETTER

1. Maiti, S., Paul, V., **Bam, J.**, Deori, S. and Ahmed, F. A. (2011). Training manual on Scientific management practices for clean milk production of high altitude milch animals. Published by NRC on Yak, Dirang.
2. Santra, A., Saikia, A., **Bam, J.**, Paul, V. and Baruah, K. K. (2012). Training Manual on Scientific Feeding and Management Practices for High Altitude Animals. Published by NRC on Yak, Dirang.
3. Krishnan G., Hanah S. S., **Bam J.**, Maiti S., Medhi D., Paul V. and Das P. J. (2014). A Training Manual on Handling and management of yak. Published by ICAR-NRC on Yak, Dirang (ICAR-NRCY/TM/2014-15/1).
4. Maiti, S., **Bam, J.**, Paul, V., Bera, A. K., Biswas, T. K. and Baruah, K. K. (2012). Socioeconomic status of yak pastoralist of Arunachal Pradesh. Technical bulletin. Published by NRC on Yak, Dirang.
5. Bera, A. K., **Bam, J.**, Samanta, A. K., Maiti, S., Medhi, D., Doley, J., Ado, D., Jeeva, K., Biswas, S., Bhattacharya, D. and Deb, S. M. (2014). Tools for Managing Nematodes in

- Yak: A 5 Star Worm Plan. Technical Bulletin. Published by ICAR-NRC on Yak, Dirang Arunachal Pradesh, India.
6. Bera, A. K., Hussain, M., Bhattacharya, D., Doley, J., Maji, C., **Bam, J.**, Biswas, T. K. and Deb, S. M. (2013). Common Health problems of yak and their first aid care. Leaflet. Published by ICAR-NRC on Yak, Dirang Arunachal Pradesh, India.
  7. **Bam J.**, Bera A. K., Hanah S. S., Doley J. and Bhattacharya D. (2014). Health care management of yak during pack trial. *In: A Training Manual on Handling and management of yak*. Published by ICAR-NRC on Yak, Dirang. pp. 80-89.
  8. **Bam, J.** (2012). Diseases of high altitude animal and their control measures. *In: Training Manual on Scientific Feeding and Management Practices for High Altitude Animals*. Published by NRC on Yak, Dirang. pp. 25-26.
  9. Maiti S., **Bam J.**, Doley J., Hanah S. S., Krishnan G., Paul V. and Bera A. K. (2014). Importance of yak on the livelihood of its rearers in Arunachal Pradesh. *In: A Training Manual on Handling and management of yak*. Published by ICAR-NRC on Yak, Dirang. pp. 58-64.
  10. Hanah S. S., Krishnan G., Paul V. and **Bam J.** (2014). Housing Management at Mid and high altitude. *In: A Training Manual on Handling and management of yak*. Published by ICAR-NRC on Yak, Dirang. pp. 9-18.
  11. Doley J., Hussain M., Karthick S., Das P. P., Medhi D., Bera A. K., **Bam J.**, Bhattacharya D., Sarma P., Ali E., Maiti, S. and Das P. J. (2014). Common diseases of yak and their managemental control. *In: A Training Manual on Handling and management of yak*. Published by ICAR-NRC on Yak, Dirang. pp. 70-79.
  12. Maiti, S., Krishnan, G., **Bam, J.**, Doley J., Biswas, T. K., Chauhan, V. S. (2014). Getting more from your yak: Better remuneration through value addition of yak products. *In: Compendium cum Training Manual on Improving Yak Husbandry through Nutrition, Reproductive and Health Management*. Published by ICAR-NRC on Yak, Dirang. pp. 22-32.
  13. Chauhan, V. S., Paul, V., Krishnan, G., **Bam, J.**, Maiti, S., Medhi, D. and Das, P. J. (2014). Risk of contamination of semen during cryopreservation and measures to limit cross contamination during storing and handling of frozen semen. *In: Compendium cum Training Manual on Improving Yak Husbandry through Nutrition, Reproductive and Health Management*. Published by ICAR-NRC on Yak, Dirang. pp. 121-131.
  14. Doley J., Medhi, D., Maiti, S., Bera A. K., **Bam, J.**, Changmai, A., Das, P. P., Bhattacharya D. and Das, P. J. (2014). DNA Vaccines: A Short summary. *In: Compendium cum Training Manual on Improving Yak Husbandry through Nutrition, Reproductive and Health Management*. Published by ICAR-NRC on Yak, Dirang. pp. 212-216.
  15. Maiti, S., Bera, A. K., Biswas, T. K., **Bam, J.**, Chouhan, V. S., Paul, V., Bhattacharya, D., Chakravarty, P. and Deb, S. M. (2013). Value addition and IPR Issues of yak products. *In: Training Manual on Yak Welfare in Transhumance Rearing System*. Published by ICAR-NRC on Yak, Dirang. pp. 91-96.
  16. Bhattacharya, D., **Bam, J.**, Horringle, S. and Baruah, K. K. (2012). Profile of National Research Centre on Yak, Dirang. *ICAR News*. **18**(3): 10-13.
  17. Yak News July- Dec 2011.
  18. Annual report 2010-2011 of National Research Centre on Yak, Dirang.
  19. Annual report 2011-2012 of National Research Centre on Yak, Dirang.

#### **SUMMER/WINTER SCHOOL/TRAININGS/WORKSHOPS ATTENDED**

1. Winter School on “Basic techniques in Solid Phase peptide synthesis and the application of synthetic peptide in animal disease diagnosis and research” 22<sup>nd</sup> September-12<sup>th</sup> October, 2010. IVRI, Izatnagar, Bareilly.
2. Sensitization cum Installation Workshop of the National Consortium “Strengthening Statistical Computing for NARS” 14<sup>th</sup>-15<sup>th</sup> February ‘2013 funded by National

Agricultural Innovation Project and organized by ICAR Research Complex for NEH Region, Umiam, Meghalaya in collaboration with Department of Livestock Production and Management, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22, Assam.

3. Training Manual on Improving Yak Husbandry through Nutrition, Reproductive and Health Management. 16-23<sup>rd</sup> June, 2014. ICAR-NRC on Yak, Dirang, Arunachal Pradesh, India.

## ABSTRACTS

1. **Bam, J.**, Samanta, S., Raina, O. K. and Vanlalhmuka. (2007). Heartworm infection in dogs in Mizoram: an incidence study. XVIII National Congress of Veterinary Parasitology and National Symposium on Emerging Parasitic zoonoses and Advances in Herbal Medicine against Parasites of Veterinary importance. September 7-9, 2007. Sher-e-Kashmir University of Agricultural Science and Technology, R. S. Pura, Jammu. pp. 236.
2. Rawat, S. S., Samanta, S., **Bam, J.**, and Raina, O. K. (2007). Prevalence of some common helminth parasites in goats in and around Bareilly, Uttar Pradesh. XVIII National Congress of Veterinary Parasitology and National Symposium on Emerging Parasitic zoonoses and Advances in Herbal Medicine against Parasites of Veterinary importance. September 7-9, 2007. Sher-e-Kashmir University of Agricultural Science and Technology, R. S. Pura, Jammu. pp. 235.
3. Sanjukta, R. K., **Bam, J.**, Choudhury, S., Shashi Kiran, Perme, H., Sailo, B., Lalnunthanga, Fanai, R. and Deb, R. (2007). Uterine prolapse complicated with milk fever in Holstein Friesian crossbred cow. National Symposium on Animal welfare and Sustainable Health through Recent Therapeutics and Disease Management Strategies and Silver Jubilee Convention of Indian Society for Veterinary Medicine, February 26-27, 2007. GB Pant University, Pantnagar, Uttarakhand.
4. **Bam, J.**, Deori, S., Paul, V. and Baruah, K. K. (2010). Mortality pattern of yaks in semi intensive system. XXVII Annual conference of Indian Association of Veterinary Pathologists and C. L. Davis Satellite Seminar on “Evolving Role of Pathology in Pharmaceutical Non Clinical Safety Assessment: Paradigm Shifts, Globalization and GLP Compliance” and National symposium on ‘Recent Trends in Diagnosis and Pathology of Emerging and Re-emerging Diseases of Livestock and poultry’. November 25-27, 2010. Assam Agricultural University, Khanapara, Guwahati-22, Assam.
5. Deori, S., Borah, B. K. D., Doley, P., **Bam J.**, Paul, V., Chakravarty, P. and Baruah, K. K. (2010). Incidence of calf mortality under semi intensive system of management of yak (*Poephagus grunniens*). National symposium 2010 on technology management, visioning and upscaling for accelerating livestock production and XVIII Annual convention of Indian Society of Animal Production and management. November 11-13, 2010. Assam Agricultural University, Khanapara, Guwahati-22, Assam.
6. Deori, S., **Bam, J.** and Mangyang, S. (2011). Effect of antepartum administration of vitamin E-selenium on reproductive efficiency of yak (*Poephagus grunniens*). National Symposium on Reproductive Biotechnologies for Augmenting Fertility and Conservation of Animal Species with Special Reference to North Eastern Hill Region & XXVII Annual Convention of Indian Society for Study of Animal Reproduction. September 27-29, 2011, Aizawl, Mizoram.
7. Sanjukta, R. K., Mandakini, R. K., **Bam, J.**, Puro, K., Dubal, Z. B., Ghatak, S., Shakuntala, I. and Sen, A. (2012). Preliminary screening of antibacterial property of some local herbs of northeastern region. 30<sup>th</sup> ISVM National Symposium on Animal Health vis-a-vis Animal Welfare with application of biotechnology with special reference to North-Eastern Region. February 1-3, 2012. CAU, Aizawl, Mizoram.

8. **Bam, J.**, Bhattacharya, D., Deori, S., Paul, V. and Bera, A. K. (2012). Prevalence of helminth parasites in yaks of West Kameng and Tawang districts of Arunachal Pradesh. XXIII National Congress of Veterinary Parasitology and National Symposium on “Parasitology today: from environmental and social impact to the application of geoinformatics and modern biotechnology”. 12-14 December, 2012 at Guwahati, Assam.
9. Pathak, P., **Bam, J.**, Kakati, P. and Islam, S. (2014). Contamination of salad vegetables with eggs of certain zoonotic helminths at different market places of Guwahati, Assam. National Symposium on “One Health: Harnessing Biotechnology for Addressing Veterinary and Biomedical Concerns on Food Safety, Zoonoses and Environmental Sustainability” & XII Annual conference of Indian Association of Veterinary Public Health Specialists held on 4<sup>th</sup> & 5<sup>th</sup> February 2014 at College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22, Assam.
10. Ado, D., Bera, A. K., **Bam, J.**, Chatterjee, N., Jeeva, K., Bhattacharya, D., Mondal, T. K. and Deb, S. M. (2014). Toxic-epidemiological survey on arsenic in yak tracts of Arunachal Pradesh, India. National Symposium on “One Health: Harnessing Biotechnology for Addressing Veterinary and Biomedical Concerns on Food Safety, Zoonoses and Environmental Sustainability” & XII Annual conference of Indian Association of Veterinary Public Health Specialists held on 4<sup>th</sup> & 5<sup>th</sup> February 2014 at College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22, Assam.
11. Bera, A. K., Manna, B., Maiti, S., Pan, D., Das, S., Rana, T., **Bam, J.**, Doley, J., Bhattacharya, D. and Deb, S. M. (2015). Effect of mushroom polysaccharides in preventing sub-clinical coccidiosis in broiler chicken. *In: Proceedings of the International Conference on Agriculture, Veterinary & Life Science-2015*. 30-31 January, 2015. Vikram University, Ujjain Madhya Pradesh, India.

#### **SEMINARS/CONFERENCES ATTENDED**

1. XXVII Annual conference of Indian Association of Veterinary Pathologists and C. L. Davis Satellite Seminar on “Evolving Role of Pathology in Pharmaceutical Non Clinical Safety Assessment: Paradigm Shifts, Globalization and GLP Compliance” and National symposium on ‘Recent Trends in Diagnosis and Pathology of Emerging and Re-emerging Diseases of Livestock and poultry’ held on 25<sup>th</sup>-27<sup>th</sup> November ‘2010 at College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22, Assam.
2. National Symposium 2010 on technology management, visioning and upscaling for accelerating livestock production and XVIII Annual convention of Indian Society of Animal Production and management held on 11<sup>th</sup>-13<sup>th</sup> November ‘2010 at Assam Agricultural University, Khanapara, Guwahati-22, Assam.
3. 30<sup>th</sup> ISVM National Symposium on Animal Health vis-a-vis Animal Welfare with application of biotechnology with special reference to North-Eastern Region held on 1<sup>st</sup> -3<sup>rd</sup> February ‘2012 at College of Veterinary Sciences and Animal Husbandry, CAU, Aizawl, Mizoram.
4. National Symposium on “One Health: Harnessing Biotechnology for Addressing Veterinary and Biomedical Concerns on Food Safety, Zoonoses and Environmental Sustainability” & XII Annual conference of Indian Association of Veterinary Public Health Specialists held on 4<sup>th</sup> & 5<sup>th</sup> Feb ‘2014 at College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22, Assam.
5. National Symposium on Parasitology Today: From environmental and social impact to the application of geoinformatics and modern biotechnology and XXIII National Congress of Veterinary Parasitology held on 12<sup>th</sup> -14<sup>th</sup> December 2012 at College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-22, Assam.

## OTHERS

1. **Bam, J.**, Saikia, A., Kumar, P., Leishangthem, G. D., Somvanshi, R. 2011. BPV-1 in skin wart of Yak. EMBL: HE603638.
2. **Bam, J.**, Saikia, A., Kumar, P., Leishangthem, G. D., Somvanshi, R. 2011. BPV-1 in skin wart of Yak. EMBL: HE603640.
3. **Bam, J.**, Samanta, S., Raina, O. K., Tewari, A. K., Vanlalhmuaka and Bansal, G. C. (2007). *Dirofilaria immitis* from India 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. GenBank: EU087699.1.
4. **Bam, J.**, Samanta, S., Raina, O. K., Tewari, A. K., Vanlalhmuaka and Bansal, G. C. (2007). *Dirofilaria immitis* from India 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, complete sequence; and 5.8S ribosomal RNA gene, partial sequence. GenBank: EU087700.1.
5. Kumar, P., **Bam, J.**, Saikia, A., Leishangthem, G. D., Somvanshi, R. 2011. BPV-1 in cutaneous wart of Yak. EMBL: HE603637.
6. Kumar, P., **Bam, J.**, Saikia, A., Leishangthem, G. D., Somvanshi, R. 2011. BPV-2 in cutaneous wart of Yak. EMBL: HE603639.
7. Sanjukta, R. K., Kumar, M., **Bam, J.**, Karuna, I., Mandakini, R. K., Neeta, L., Gangwar, P., Uphadyay, A. K., Singh, S. P. and Rajput, M. K. (2007). Canine parvovirus strain CPV-2b VP2 gene, partial cds. GenBank: EU118267.1.