

**Bio-data of Dr. S. Bhusan**

**Name** : Saket Bhusan **Date of birth** : 01. 07. 1960  
**Designation** : Senior Scientist (AG & B)  
**Address** : Central Institute for Research on Goats, Makhdoom, Distt. –  
 Mathura (UP)

**(A) Academic qualifications:**

Name of Degree	Class/ Division	Rank/ Medal (If any)	Year	Subject	Name of University
Ph. D.	First	-	1989	Animal Genetics	Indian Veterinary Research Institute, Izatnagar, India
<p><b>Title of Ph. D. Thesis:</b> “ <i>Genetic studied on spermatozoal attributes in cattle</i>”            Guide: Prof. N. S. Sidhu</p>					
M. Sc.	First	-	1984	Animal Breeding	G. B. Pant University of Ag. & Technology, Pantnagar, India
<p><b>Title of M.Sc. Thesis:</b> “ <i>Studies on inheritance of certain plasma enzymes (GOT &amp; GPT) and production traits and their relationship in white leghorn poultry flock</i>”            Guide: Dr. R. V. Singh</p>					
B. Sc.	First	-	1980	Agriculture & Animal Husbandry	B. K. University, Jhansi, India
Intermediate	-	-	1977	Agriculture	U.P. Board,

					Allahabad
High school	-	-	1975	Science	U.P. Board, Allahabad

**(B) Employment Record and Experience**

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Designation	Pay scale	Nature of Work	Organization	Institution and place of posting	Period (From - To)	Duration (Years, months)
Lecturer	Rs. 2200 – 4000/	Teaching, Research and Extension.	North Eastern Hill University	School of Agricultural Sciences & Rural development, Medziphema, Nagaland	22 <sup>nd</sup> July, 1989 to 31 <sup>st</sup> October, 1993	4 yrs & 3 months
Principal / Training Organizer	Rs. 3700 – 5700 /	Extension, Research and Teaching	ICAR & DRI, New Delhi, India	Lal Bahadur Shashtri Krishi Vigyan Kendra, Gopal Gram, Gonda (UP)	1st November, 1993 to 21 <sup>st</sup> March, 1996	2 yrs & 4 months
Lecturer (Senior Grade)	Rs. 10,000 – 15,200	Teaching, Research and Extension	North Eastern Hill University,	Pachhunga University College, Aizawl (Mizoram)	22 <sup>nd</sup> March, 1996 to 26 <sup>th</sup> July, 1998	2 years and 4 months

Lecturer (Selection Grade)	Rs. 12,000 – 18,300 /	Teaching, Research and Extension	North Eastern Hill University,	Pachhunga University College, Aizawl (Mizoram)	27 <sup>th</sup> July, 1998 to 29 <sup>th</sup> September, 1999	1 yrs and 2 months
Senior Scientist	Rs. 12000 – 18300/	Research, Extension and Teaching	ICAR, New Dehli	NRC on Mithun, Jharnapani, Nagaland	30 <sup>th</sup> September, 1999 to 30 <sup>th</sup> September, 2002	3 yrs
Senior Scientist	Rs. 12000 – 18300/	Research, Extension and Teaching	ICAR, New Dehli	CIRG, Makhdoom, Distt. – Mathura (UP)	1 <sup>st</sup> October, 2002 till to date	4 yrs

**( C ) Service in remote areas:**

Designation	Pay scale	Nature of Work	Organizatio n	Institution and place of posting	Period (From - To)	Duration (Years, months)
Lecturer	Rs. 2200 – 4000/	Teaching, Research and Extension.	North Eastern Hill University	School of Agricultural Sciences & Rural development, Medziphema, Nagaland	22 <sup>nd</sup> July, 1989 to 31 <sup>st</sup> October, 1993	4 yrs & 3 months

Principal / Training Organizer	Rs. 3700 – 5700 /	Extension, Research and Teaching	ICAR & DRI, New Delhi, India	Lal Bahadur Shashtri Krishi Vigyan Kendra, Gopal Gram, Gonda (UP)	1st November, 1993 to 21 <sup>st</sup> March, 1996	2 yrs & 4 months
Lecturer (Senior Grade)	Rs. 10,000 – 15,200	Teaching, Research and Extension	North Eastern Hill University,	Pachhunga University College, Aizawl (Mizoram)	22 <sup>nd</sup> March, 1996 to 26 <sup>th</sup> July, 1998	2 years and 4 months
Lecturer (Selection Grade)	Rs. 12,000 – 18,300 /	Teaching, Research and Extension	North Eastern Hill University,	Pachhunga University College, Aizawl (Mizoram)	27 <sup>th</sup> July, 1998 to 29 <sup>th</sup> September, 1999	1 yrs and 2 months
Senior Scientist	Rs. 12000 – 18300/	Research, Extension and Teaching	ICAR, New Delhi	NRC on Mithun, Jharnapani, Nagaland	30 <sup>th</sup> September, 1999 to 30 <sup>th</sup> September, 2002	3 yrs

**(D) In service awards / recognitions:**

Name of the award	Award organization (Place/ country)	Year	Natioanl/international/institutional/professional society	Additional Information
Vigyan Bhartee Award	Vigyan Bhartee, Lucknow & Dept. of Science &	2000	A award of Professional Society given by Science & Technology Minister (State), Govt. of India	Award was given to use of Hindi in science

	Technology, Government of India			(Animal Science)
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**(E) Teaching / Extension:**

Items	Details	Years	Additional Information
1. Teaching in SASRD, Nagaland	Taught the courses of AG&B and Animal Production	22 <sup>nd</sup> July, 1989 to 31 <sup>st</sup> October, 1993	Taught 3-5 courses per semester
2. Teaching in PUC, Aizawl	Taught the courses of Cytogenetics and Molecular Genetics	22 <sup>nd</sup> March, 1996 to 29 <sup>th</sup> September, 1999	Taught 2-3 courses per semester
3. Extension in KVK	Organized on campus, off campus trainings, first line demonstration and kisan goshthi	1st November, 1993 to 21 <sup>st</sup> March, 1996	Organized 20 on campus and 45 off campus trainings, , first line demonstration on oil seeds and pulses

**(F) Special Attainments:**

Category	Title	Year	Details	Additional Information
1. Teaching	Practical teaching of animal sciences through different models	1st November, 1993 to 21 <sup>st</sup> March,	In place of live animals used the models of animals for breed characteristics and	Method was appreciated by students and bodies of different colleges. Many colleges used

		1996	to study internal and external structure of	this technique for effective teaching of animal science
2. Research	Identification of mithun strains at molecular level	30 <sup>th</sup> September, 1999 to 30 <sup>th</sup> September, 2002	Measurement of genetic relation at DNA level between four strains of mithun was performed through DNA amplification fingerprinting of mithun ( <i>Bos frontalis</i> ) genome by randomly amplified polymorphic DNA markers (RAPD-PCR).	4 strains of mithun were differentiated at DNA level
3. Research	Genetic relation of mithun with other livestock species	30 <sup>th</sup> September, 1999 to 30 <sup>th</sup> September, 2002	Measurement of genetic relation of mithun at DNA level with other livestock species.	Three techniques, RAPD, RAPD-PAGE and MASA profile were used to measure genetic relation of mithun with cattle, buffalo, sheep and goat
4. Research	Genetic evaluation of Jakhrana goats and	30 <sup>th</sup> September, 1999 to 30 <sup>th</sup>	Estimated different production and reproduction parameters of	For the purpose a nucleus flock of extraordinary breeding males and females is

	improvement through ONBS system	September, 2002	Jakhrana goats and genetic improvement programmed in farmers field is under progress	established through mass selection of Jakhrana goats
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**(G) Externally funded projects:**

PI/ Co PI/ Others	Title	Year	Amount	Funding Agency
<b>PI</b>	First line demonstration of oil seeds and pulses for adoption and diffusion of the techniques in Gonda district of UP.	1st November, 1993 to 21 <sup>st</sup> March, 1996	Rs. 6.0 lakhs	Directorate of Extension, Ministry of Agriculture, Govt. of India
<b>Co PI</b>	Household Food and Nutritional Security under Jai Vigyan programme :	30 <sup>th</sup> September, 1999 to 30 <sup>th</sup> September, 2002	Rs. 10.0 lakhs	NATP, KAB-II, Pusa, New Delhi
<b>Consortium PI</b>	Goat husbandry based integrated approach for livelihood security in disadvantaged districts of Bundelkhand region	Continue since April, 2008	Rs 516.519 lakhs	NAIP, KAB-II, Pusa, New Delhi

**(H) Organization of winter school / summer school / refreshers course/ seminar**

**Symposium:**

<b>Funding Agency</b>	<b>Title</b>	<b>Year</b>	<b>Duration</b>	<b>Additional Information</b>
1.	Trainings of Diesel-Pumpset Repair	1994-95	3 months	Attended private mechanics and employees of state government functionaries.
2.	Para-veterinary training course	1994-95	2 months	Attended graduate unemployed persons and employees of state government functionaries.
3.	Training on Rabbit Husbandry	1994-95	1 months	Attended farmers and employees of state government functionaries.
4.	Training on wormiculture	1994-95	1 months	Attended farmers and employees of state government functionaries.
5.	Seminar under Anniversary of Indian Republic in Nagaland state	2000	Organized 5 seminars. Each seminar was of 1 day	Attended the seminars by students, professionals and VIPs of states

**(J) Institutional Buildings:**

1. Constructed office building of LBS KVK, Gonda.
2. Constructed Dairy building of LBS KVK, Gonda
3. Purchased tractor of LBS KVK, Gonda
4. Constructed approach road in LBS KVK, Gonda
5. Constructed Mithun shed in NRC on Mithun, Nagaland
6. Constructed Pig shed construction in ICAR research Complex, Nagaland
7. Nodal Officer of Intellectual Property Right for NRC on Mithun, Nagaland
8. I/c of the Cell for the Implementation of official language programmed of NRC on Mithun, Nagaland
9. Member of IMC of NRC on Mithun, Nagaland
10. Member Secretary of LMC of LBS KVK, Gonda (UP)
11. Member of School Board of SASRD, Medziphema (Nagaland)

**(J) Inter-Institutional projects:**

PI/ Co PI/ Others	Title	Institutions	Year	Duration	Amount	Funding Agency
PI	Cytogenetic and DNA investigation in Mithun	NRC on Mithun and CARI, Izatnagar	2000-2002	2 years	Rs 20.0 Lakh	NRC on Mithun

**(K) Important Publication:**

S. No.	Authors	Year	Title	Journal	NAAS Jrn ID
1	Bhusan, S. Sharma Deepak	2010	Estimation of genetic relation of mithun	<i>Indian J. of Animal Sciences</i> 80 (1):	<b>I037</b>

	and Rajkhowa, C.		( <i>Bos frontalis</i> ) with other livestock species through RAPD-PAGE	72-74.	
2	Bhusan, S. Sharma Deepak and Rajkhowa, C	2007	RAPD profile of four mithun populations.	<i>Indian Journal of Animal Sciences</i> 77 (7): 660-662,	<b>I037</b>
3	Bhusan S, Rajkhowa C. and Subodh Kumar	2007	Status of reproductive traits of four strains of mithun ( <i>Bos frontalis</i> ) and their correlation. (	<i>Indian Journal of Animal Sciences</i> 77 (1): 113-115,	<b>I037</b>
4	Bhusan S, Rajkhowa C, Bujarbaruah K M and Subodh Kumar	2006	Growth of four strains of Mithun ( <i>Bos frontalis</i> ) calves up to twelve months of age	<i>Indian J. of Animal Sciences</i> 76 (9): 720-772.	<b>I037</b>
5	Bhusan S, Rajkhowa C and Bujarbaruah K M	2005	Body weight and growth pattern in mithun ( <i>Bos frontalis</i> ).	<i>Indian J. of Animal Sciences</i> 75 (8): 1186-1188.	<b>I037</b>
6.	Bhusan S, Rajkhowa C and Bujarbaruah K M	2005	Productive traits of mithun ( <i>Bos frontalis</i> ) and their correlations.	<i>Indian J. of Animal Sciences</i> 75 (8): 971-973.	<b>I037</b>

7.	Bhusan, S. and Rajkhowa, C.	2004	Importance of swamp buffalo in north-eastern region of India	<i>The Indian Journal of Animal Genetics and Breeding</i> <b>25</b> (1): 65-68.	<b>Refer- eed J.</b>
8	BhattacharyaH K, Subodh Kumar, Mondal S K, Bhusan S, Bujarbaruah K M, Rajkhowa C	2004	Estimation of some seminal attributes of mithun (Bos frontalis).	<i>Indian J. of Animal Science</i> <b>74</b> (5): 514-515.	<b>I037</b>
9	BhattacharyaH K, Subodh Kumar, Mondal S K, Bhusan S, Bujarbaruah K M, Rajkhowa C	2004	An investigation on spermatozoal defects in mithun semen	<i>Indian J. of Animal Science</i> <b>74</b> (5): 516-517	<b>I037</b>
10	Bhusan, S, Deepak Sharma & Rajkhowa, C.	2004	Study the genetic relation of goats (Capra hircus) at DNA level with other livestock species through MASA markers	<i>Proceeding of seminar on Goat Genome</i>	<b>Refere ed Pro.</b>
11.	Bhusan, S.	2006	Body weight changes of Jakhrana goats in farmers field	<i>The Indian Journal of Small Ruminants</i> , 12 (1), p. 124-127	<b>Refere ed J.</b>
12.	Bhusan, S, & Singh, RV	1987	A study on correlation between plasma enzymes and production traits in egg type chicken	<i>Indian J. of Poultry Science</i> <b>22</b> (3): 295-296.	<b>I070</b>

13.	Bhusan, S, Sidhu, N S & Bhist, G S	1991	Collection, farm and breed effect on spermatozoal attributes	<i>Indian J. of Dairy Science</i> <b>44</b> (3): 253-54.	<b>I034</b>
14.	Sidhu, N.S.; Joshi, J. D. and Bhusan, S	1986	A new fluorescent stain of Y – bearing spermatozoa in animals and y-chromosome in somatic cells of animals	<i>Indian Journal of Heredity</i> , Vol. <b>18</b> , No. 3-4, p.19-24	<b>I049</b>
15.	Sidhu, N.S.; Bhusan, S and Joshi, J. D.	1987	Polymorphism in spermatozoal attributes vis-vis haploid effects in gamete	<i>Indian Journal of Heredity</i> , Vol. <b>19</b> , No. 1-2, p.23-31	<b>I049</b>
16.	S. Bhusan	1987	A brief communication on: Heritability estimates of weight and age of sexual maturity GOT and 210 days egg production in poultry	<i>Indian Journal of Heredity</i> , Vol. <b>19</b> , No. 3-4, p.1-3	<b>I049</b>
17.	Sidhu, N.S.; Bhusan, S and Joshi, J. D.	1988	Reproductive engineering through sexing of spermatozoa by various methods and	<i>Indian Journal of Heredity</i> , Vol. <b>20</b> , No. 3-4, p.28-44	<b>I049</b>

			their separation.		
18.	Sidhu, N.S.; Bhusan, S and Joshi, J. D.	1988	A review on artificial insemination of cattle and buffaloes by N.C. Sharma (1987).	<i>Indian Journal of Heredity</i> , Vol. <b>20</b> , No. 3-4, p.45-46	<b>I049</b>
19.	Bhusan, S, Sidhu, N S & Bhist, G S	1990	Correlation studies in cattle spermatozoal attributes	<i>BIOVED</i> , I (1): 67-70	<b>Refere ed J.</b>
20.	Bhusan, S.	1993	A brief note of mithun production in North Eastern Region	<i>Livestock adviser</i> , Vol. <b>XVIII</b> , Issue IX, p. 3-4	<b>Refere ed J.</b>
21	Bhusan, S and Sidhu, S.	1992	Polymegaly studies for X and Y- bearing spermatozoa	<i>Perspective in Cytology and Genetics</i> , <b>7</b> , p.507-512	<b>Refere ed Pro.</b>
22	Bhusan, S and Sidhu, S.	1992	Sexing of bull sperm by transmission electron microscopy (TEM): Ultrastructural differences between X- and Y- bearing sperm.	<i>Perspective in Cytology and Genetics</i> , <b>7</b> , p.645-654, 1992	<b>Refere ed Proc.</b>
23	Bhusan S, Subodh Kumar, Rajkhowa C and Bujarbaruah K M	2007	Status of the reproductive traits of four strains of mithun ( <i>Bos frontalis</i> ) and their correlation	Accepted in <i>Indian Journal of Animal Sciences</i> 77(1)	<b>I037</b>

**(M) Total numbers of publications** (Full list to be presented in time of interview):

i. Full length paper in refereed journal only	: 14
ii. Papers in conference proceeding / book chapters	: 9
iii. Popular article/ short notes/ short communication	: 17
iv. Book published : authored/ edited individually and jointly	: 2
v. Manuals / Teaching aids developed	: 1
vi. Research bulletins/ extension bulletins	: 1
vii. Others	: 32
<b>Totals</b>	<b>: 76</b>

(d) Any other Information:

- Member of selection committee to select Training Associates and Training Assistant of different KVK working under Deendayal Research Institute, New Delhi.
- Nominated by hon'ble Minister of Youth Affairs & Sports, Government of India as a non-official member to the selection committee of project officers NRC of Nehru Yuva Kendra Sangathan run in different states of north eastern hill region.

- Nominated by Ministry of Tourism & Culture, Government of India as a member of state level Organising Committee for the state of Nagaland for commemoration of the 50<sup>th</sup> anniversary of Indian Republic.
- Library I/c of NRC on Mithun, Nagaland
- Look after the duties of Director, NRC on Mithun on Nagaland in the absence of Permanent Director from 1999-2002 since I was the senior most after Director.
- I/c of Department of Animal Science of SASRD, Nagaland from 1991 to 1994.