

Brief Biodata

Name	:	Dr Ajayvir Singh Sirohi	
Designation	:	Principal Scientist	
Discipline	:	Livestock Production Management	
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★ **Education qualification** (Graduation on wards)

Degree	Subject (s)	Institute
B. V. Sc. & A. H.	Veterinary Sci. & Animal Husbandry	UP College of Vety. Sc., Mathura, C.S.A.U. Ag. & Tech., Kanpur
M. V. Sc.	Major: Livestock Prod. Mgmt. Minor: Animal Genetics & Breeding	ICAR-Indian Veterinary Research Institute, Izatnagar
Ph. D.	Major: Livestock Prod. Mgmt. Minor: 1. Vety. Gynae. & Obst. 2. Poultry Science	ICAR-Indian Veterinary Research Institute, Izatnagar

❖ **Area of research**

- ✚ Shelter modifications / climatic variable studies for quality semen production in bulls
- ✚ Artificial intelligence application in breeding bulls and breed identification
- ✚ Indigenous cattle urine studies
- ✚ Milking management of crossbred cows
- ✚ Utilization of *Prosopis juliflora* by ruminants
- ✚ Parturient behaviour of crossbred gilts and piglet behaviour in Large White Yorkshire pigs

❖ **Fellowships/Awards etc. (Not more than five)**

1.	National Fellow of Indian Society of Animal Production & Management
2.	Fellow of Academy of Sciences for Animal Welfare
3.	Associate Fellow of NAVS (I)
4.	ICAR- Junior and Senior Research Fellowships
5.	Outstanding participant of winter school held at ICAR-NDRI, Karnal during 2010.

❖ **Patent / Technologies / Methodologies / System etc. (Not more than five):**

1.	Development of “FRIESWAL”, the first synthetic cattle breed of India
2.	Registration of official logo of ICAR-CIRC by Indian Patent Office
3.	Design registration for development of “Milking pail & vessel set” by Indian Patent Office

❖ **Selected Publications: (Max. 20)**

1.	Sirohi, A. S., Pandey, H. N. and Singla, M. (2012). Effect of milking frequency on feed intake, body weight and haemato-biochemical changes in crossbred cows. <i>Journal of Applied Animal Research</i> . 40 (1) : 63-68
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2.	Alyethodi, R. R., Sirohi, A. S., Karthik, S., Tyagi, S., Perumal, P., Singh, U., Sharma, A. and Kundu, A. (2021). Role of seminal MDA, ROS, and antioxidants in cryopreservation and their kinetics under the influence of ejaculatory abstinence in bovine semen. <i>Cryobiology</i> . 98 : 187-193
3.	Sirohi, A. S., Mathur, B. K., Misra, A. K., and Tewari, J. C. (2017). Effect of feeding of crushed and entire dried <i>Prosopis juliflora</i> pods on feed intake, growth and reproductive performance of arid goats. <i>Indian Journal of Animal Sciences</i> . 87(2) : 238-240
4.	Pande, M., Kumar, S. Tyagi, S., Sirohi, A. S., Chand, N., Soni, Y. K., Mahajan, S. Saha, S., Sharma, A., Sarika, Rajoriya, J. S., Anjali and Mohanty, A. K. (2024). Endogenous Tissue Inhibitor of Metalloproteinase-2 levels are associated with high-quality neat semen but unrelated to sperm cryo-resistance in bulls. <i>Reproduction in Domestic Animals</i> . 59:e 14741.
5.	Fahim, A., Kamboj, M. L., Sirohi, A. S., Bhakat, M., Mohanty, T. K. and Kerketta, S. (2019). Effect of automatic cluster remover settings on milkability, milk quality and milking irregularities of crossbred cows. <i>Journal of Dairy Research</i> . 86(2) : 196-200
6.	Naik, P. K., Saijpal, S., Sirohi, A. S. and Raquib, M. (2009). Lactation response of crossbred dairy cows fed on indigenously prepared rumen protected fat-Afield trial. <i>Indian Journal of Animal Science</i> . 79 (10) : 1045-49
7	Verma, N., Alyethodi, R. R., Kathuria, A., Alex R., Hussain, S., Singh, U., Tyagi, S., Sirohi, A. S., Kumar, S., Sengar, G. S., Raja, T. V., Prakash, B. (2021). Comparative CpG methylation kinetic patterns of cis-regulatory regions of heat stress-related genes in Sahiwal and Frieswal cattle upon persistent heat stress. <i>International journal of Biometeorology</i> . 65(7) : 1025-1032
8	Pande, M., Ghosh, S. K., Tyagi, S., Katiyar, R., Kumar, S., Srivastava, N., Sirohi, A. S., Sarika, Chand, N., Dhara, S. K., Bhure, S. K. and Mahajan, S. (2024). Novel antioxidant Humanin analogue restores bull semen cryo-survivability. <i>Andrologia</i> . Volume 2024 , Article ID 5582359
9	Shazia, H., Alex, R; alyethodi, R., Sharma, S., Verma, N., Sirohi, A. S., Singh, U., Kumar, S., Chand, N., Sengar, G., Sharma, A., Tyagi, R., Arya, S., Tyagi, S. (2021). Development of a RAPD marker-based classification criterion for quality semen production in Holstein crossbred bulls. <i>Reproduction in Domestic Animals</i> . 56(5) : 736-43
10	Alyethodi. R. R., Sirohi, A. S., Karthik, S., Tyagi, S., Sharma, A., Muniswamy, K. and Kundu, A. (2022). Association of bull semen protein estimates and SDS-PAGE profiles on semen freezability. <i>Indian Journal of Biochemistry and Biophysics</i> . 59 : 856-861
★	<u>Full list of Publications (in PDF)</u>
❖ On-going research projects	
1	PI - “Utilization of paddy straw as complete fodder block by treating with Gomutra (Indigenous cow urine)” sponsored by DST, GoI
2	PI – “Evaluating bull breeding soundness using machine learning tools” institute research project
3	Co-PI – “Strengthening of semen station of ICAR-CIRC under Rashtriya Gokul Mission” sponsored by DAHD, GoI
4	Co-PI - “Investigation of Heat stress impact on Frieswal cattle and enhancement of their thermotolerance through HSP40 gene modulation” institute research project

❖	Research Scholar