

PROFILE

Satya Pal Arya, Scientist B

National Institute of Animal Biotechnology (NIAB)

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Area of Specialization/Interest

Genetics/Genomics/Genome Editing/Sexed semen production

Current Position

February 2017 to now

Scientist B at NIAB, Hyderabad.

Education:

PhD	2016	National Institute of Immunology, New Delhi, India Thesis title "Role of microRNA in spermatogenesis"
MSc	2010	University of Delhi, South Campus, New Delhi, India Genetics,
BSc	2008	University of Delhi, New Delhi, India

Awards and Achievements:

2008	Awarded Gold Medal for standing first in BSc (H) at Delhi University.
2010	Awarded CSIR JRF in Life Sciences
2015	Awarded ICAR-NET in Genetics and Plant Breeding

Workshop and training attended

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| 2009 | Undertook a two month training in Agrobacterium mediated transgenesis in <i>Arachis hypogaea</i> . |
| 2011 | Undertook a training on “Next Generation Sequencing” at Bionivid Technologies, Bangalore, India |

Publications:

1. A study of differential expression of testicular genes in various reproductive phases of *Hemidactylus flaviviridis* (wall lizard) to derive their association with onset of spermatogenesis and its relevance to mammals. Hironmoy Sarkar; **Satyapal Arya**; Umesh Rai; Subeer S Majumdar, PLOS one (March 2016).
2. Hormone responsiveness of cultured Sertoli cells obtained from adult rats after their rapid isolation under less harsh condition. M. Gautam, I. Bhattacharya, Y. S. Devi, **S. Arya**, S. S. Majumdar Andrology (March 2016)
3. Role of antigen presenting cell invariant chain in the development of hepatic steatosis in mouse model. A. Misra; S. Iyer; P. Baligar; **S. Arya**; S. Arindkar; A. Kesarwani; P. K. Upadhayay; S. S. Majumdar, P. Nagarajan Experimental Cell Research (August 2016)

ABSTRACTS PUBLISHED IN PROCEEDINGS AND PRESENTATIONS

1. Rat transgenesis by exploiting spermatogonial cell of testis. International Conference on Frontiers in Reproductive biotechnology and 21st Annual meeting of ISSRF, Karnal, 9-11 February 2011.
2. A swift and less tricky way to make rodent models for in vivo studies of gene regulation and gene function, 80th Annual Meeting of Society of Biological Chemists, CIMAP, Lucknow, 12-15 November, 2011.
3. Facilitating studies of functional genomics in the era of high-throughput technology. Symposium on "Karyotype to Haplotype and Beyond" BHU, 2013.

4. Preliminary studies for Evolutionary significance of cellular regulation of the process of procreation by male: An integrative approach. Society for Evolutionary and Integrative Biology, Annual meeting, Trivendrum, December, 2013.
5. Wnt3mediated regulation of germ cell differentiation: a study using transgenic mice International Symposium on Molecular Signaling. Department of Zoology, Visva-Bharati, Santiniketan, India February 18-21, 2013.
6. "Wnt3 expression by testicular Sertoli cells at puberty plays a major role in the onset of germ cell differentiation" selected for poster presentation at Germline. Immortality through totipotency. EMBO EMBL symposium October 2012, Heidelberg.