

CURRICULUM VITAE

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PhD, FNA, FASc, FNASc, FSASc
J.C. Bose National Fellow, DST, New Delhi
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Date of Birth: August 7, 1955



ACADEMIC QUALIFICATIONS

Ph.D. University of Delhi, Delhi-India	1981
M.Sc. (Zoology) (Genetics Main) Aligarh Muslim University, Aligarh-INDIA <i>First Division/First Rank, University Gold Medal</i>	1976
B. Sc. (Zoology Hons) Aligarh Muslim University, Aligarh-INDIA First Division	1974

AWARDS AND HONORS

- **Fellow of all the three Premier National Academies:**
- **Indian National Science Academy, (INSA) New Delhi, India (Since 2002)**
- **The National Academy of Sciences, India (Since 1998)**
- **Indian Academy of Sciences, Bangalore, India (Since 2005)**
- **Fellow, Sudan Academy of Sciences, Khartoum, Sudan (Since 2012)**
- **Indo-Australia Senior Scientist Visiting Fellowship, February 13-25, 2013** awarded by INSA, New Delhi-110002
- **J.C. Bose National Fellowship, India (January 2012 to December 31, 2016).**
- **INSA/DFG Exchange Visiting Fellowship, Ruhr University, Bochum, Germany, February 15- March 15, 2009**
- **Alexander Von Humboldt Stiftung Fellowship, Bonn, Germany, 1984**
- **Royal Society Fellowship** from Indian National Science Academy, New Delhi and Royal Society, London to work in the laboratory of Professor Sir Alec John Jeffreys, University of Leicester, **Leicester UK**, September – November, 1997.

- **Fulbright Travel Fellowship** (1991), United States Educational Foundation in India (USEFI).
- **INDO-US Science and Technology Fellowship** jointly awarded by DST (Govt. of India) and United States Agency for International Development (USAID), January to December 1994.
- **UNESCO/TWAS Short Term Research Fellowship** to work on Human Genome at University of Utah, Department of Genetic Epidemiology, Salt Lake City, Utah, **USA**. July 7, 1991 to October 4, (1991).
- **Alexander Von Humboldt Stiftung Fellowship**, Bonn, **Germany (Re-visit)**, November 1, 2000- March 1, 2001.
- **N.K. Iyengar Memorial Gold Medal** awarded by Indian Academy of Forensic Sciences, Calcutta in Forensic Science Forum, 87th Indian Science Congress, Pune, January 4, 2000.
- **Zahoor Qasim Gold Medal** for the year 1999 awarded by the Society of Biosciences, India.
- **Young Muslim Scientist Award**, MAAS, Aligarh. 1996.
- **Nominated by DBT** (Govt. of India), New Delhi, as a member of an official delegation to visit UK for developing INDO-UK Scientific Research Collaboration, April 21-25, 1998.

POSITIONS HELD

- **(Sept 2015 – Current)** Professor, Center for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi - 110025
- **(Dec. 2008 – Aug 2015): Sr. Staff Scientist VII and Head**, Molecular Genetics Laboratory, National Institute of Immunology, New Delhi (NII)
- **(June 2004 – Dec. 2008): Staff Scientist VI and Head**, Molecular Genetics Laboratory, NII, New Delhi.
- **(June 1998 – June 2004): Staff Scientist V and Head**, Molecular Genetics Laboratory, NII, New Delhi.
- **(June 1993 – June 1998): Staff Scientist IV and Head**, Molecular Genetics Laboratory, NII, New Delhi.
- **(June 1989 – June 1993): Staff Scientist III and Head**, Molecular Genetics Laboratory, NII, New Delhi.
- **(Dec. 1988 – June 1989): Reader**, Section of Genetics, Department of Zoology, Aligarh Muslim University, (AMU), Aligarh.
- **(July 1986 – Oct 1988): Research Scientist**, Beckman Research Institute of

City of Hope National Medical Center, Duarte, California, USA.

- **(Aug. 1984 – July 1986): Alexander Von Humboldt Fellow** at the Max Planck Institute of Immunobiology, Freiburg, Germany.
- **(Jan. 1983 – Aug. 1984): Lecturer,** Department of Zoology, AMU, Aligarh.
- **(1981-1983): Post Doctoral Fellow,** Department of Zoology, University of Delhi, Delhi, India
- **1981, Ph.D. University of Delhi,** Delhi, India.

PROFESSIONAL RECOGNITION

- **Life Member, Society of Biological Chemists,** Bangalore (India).
- **Member, International Society of Animal Genetics (I.S.A.G.),** Iowa, U.S.A.
- **Life Member, Indian Academy of Forensic Sciences,** Calcutta.
- **Visitor Nominee,** H S Gaur University, Sagar. MP, 2013.
- **Member of the Anjuman (Court)** of Jamia Millia Islamia, New Delhi – 110025 (w. e. f. April 1, 2013- March 31, 2016, three years).
- **Member (Court),** Central University of Haryana, Mahendergarh, Haryana - 123029

VISITING PROFESSORSHIP

1. Jamia Millia Islamia, New Delhi-110025
2. Central Institute of Fisheries Education (CIFE), Versova, Mumbai
3. African City of Technology, Khartoum, Sudan
4. Adjunct Professor, HS Gaur University, Sagar, MP
5. Visiting Faculty, Babasaheb Bhimrao Ambedkar University, Lucknow-226 025

RESEARCH AREA & INTEREST

Genome Analysis, Molecular Human and Animal Genetics, Germline Genetics, Toxicogenomics, Gene Regulation and Expression, Genomics of Endangered Species, DNA Diagnosis, Cancer Genetics

MEMBER, EDITORIAL BOARD

- Molecular and Cellular Probes, **Elsevier Journals**
- American Journal of Current Genetics, IVY Union Publishing Co. **USA.**
- American Journal of Cancer Genetics, Genomics and Proteomics. **USA.**
- Global Journal of Human Genetics and Gene Therapy, PPP House, Gulshan-e-Iqbal, **Karachi, Pakistan.**
- International Journal of Human Genetics, **New Delhi, India.**
- Indian Journal of Experimental Biology, **CSIR,** New Delhi, India

- **Proceedings of the Indian National Science Academy**, Part-B (Biological Sciences), **New Delhi, India**.
- Indian Journal of Biotechnology, **New Delhi, India**.
- Biosciences, Biotechnology Research Asia, **Bhopal, India**
- International Journal of Biosciences and Technology (IJBST), VMKV Engineering College, Salem **Chennai**,

Thesis Examiner: Amity University, JNU, New Delhi, Delhi University, Delhi, University of Amravati, Amravati. BHU, Varanasi, Jamia Hamdard, New Delhi and Aligarh Muslim University, Aligarh-202002

MENTORSHIP OF DOCTORAL STUDENT

- Supervised **14 Ph.D. students** who are working as leading scientists in India and abroad.
- **Currently 04** are enrolled for Ph.D. programme at NII

RESOURCE FACULTY

Served as Resource Faculty **in about 20 different workshops** in the country related to modern cutting edge technology.

DETAILS OF THE EXTRA MURAL RESEARCH GRANTS AS PRINCIPAL INVESTIGATOR

(The details of these R & D projects are given in Annexure-II)

- Have successfully completed **10 Extra Mural Research projects worth the Total outlay Rs. 5.5 crore** funded by various premier R & D agencies like DBT, DST, DRDO, Wild Life Institute etc.
- **Currently have 02 on-going projects worth Rs. 1.25 crore** outlay sanctioned by DBT & DST.
- The above project **resulted producing 16 doctoral theses** and **89 research publications** (detailed in Annexure-I) **One Patent: ONE (Application # 1236/Del 98, dated May 12, 1998)** and **a huge quantum of new knowledge** both basic and applied in nature to enrich our current understanding of modern biology in the areas of growing concern i.e. cancer, diagnostic strategies for genetic disorders, stem cell research, wild life conservation, improved IVF strategies for farmed animals etc.

CONFERENCES/SYMPOSIA/INVITED LECTURES

- Delivered more than **270 lectures** at National and International meetings as invited /plenary /oral speaker (if required, details may be made available).

MEMBER ADMINISTRATIVE/ACADEMIC COMMITTEES

- Have been associated with **60 National and International Academic and Administrative Committees** constituted by :
 - **Ministries** such as Ministry of Home Affairs (MHA), Ministry of Science and Technology, Ministry of Agriculture, Ministry of Human Resource Development.
 - **Universities** like, GNDU, Jamia Millia, AMU, Gautam Buddha University, Amity University, Sher-e-Kashmir University of Agriculture & Science & Technology
 - **Institutes** like – NBFGR, Lucknow, Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad, NII, New Delhi, CSFL, Kolkata, CIBA, Chennai, ICAR, New Delhi, WII, Dehradun, CIFA Bhubaneswar and CIFE, Mumbai
 - **National & International bodies** like: INSA, ICAR, DST, DBT, NAAC, DAAD, Av-Humboldt Foundation, Bonn, Germany, African City of Technology, Khartoum, Sudan.
1. **Member, Research Advisory Committee**, National Bureau of Animal Genetic Resources, (NBAGR) Karnal, 1998-2001.
 2. **Member, Governing Body**, National Institute of Immunology, New Delhi, 1998-1999.
 3. **Member, RAP-SAC, Center for DNA Fingerprinting and Diagnostics (CDFD)**, Hyderabad, 1999- 2002.
 4. **Member, Expert Committee** on "Effective use of Forensic Science in the Criminal Justice Delivery System" Ministry of Home Affairs, New Delhi, Govt. of India.
 5. **Member, Academic Committee**, National Institute of Immunology, New Delhi, 1999-2001.
 6. **Member, Expert Committee on Forensic Sciences, (BPR&D), Ministry of Home Affairs**, New Delhi, Govt. of India. December 1998 - December 2002.
 7. **Member, Staff Selection Committee, Center for DNA Fingerprinting and Diagnostics**, Hyderabad, October 20, 1999.
 8. **Member Expert, Staff Selection Committee, Guru Nanak Dev University**, Amritsar, September 18, 2000.
 9. **Member, Board of Studies**, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, 2000-2002.
 10. **Chairman, Project Advisory & Review Committee (PARC)**, Central Forensic Science Laboratory (CFSL), Calcutta, 1999-2002.
 11. **Member, Expert Committee, Young Scientist Task Force, DST**, New Delhi, 2001-2003.
 12. **Member, Expert Panel on Research Proposal, Ministry of Health and Family Welfare**, New Delhi, Government of India, July 2002-July 2005.
 13. **Member, Sectional Committee-VII, Indian National Science Academy**, New

- Delhi, until December 31, 2005.
14. **Member, Sectional Committee, INSA Young Scientist Award**, Indian National Science Academy, New Delhi, until December 31, 2005.
 15. **Member, Expert Committee for technical evaluation of the research proposal under woman scientist scheme, DST**, New Delhi-16, Feb 27, 2003 – February 27, 2005.
 16. **Member, Task Force for Yong Scientists Programme, DST**, New Delhi, August 12, 2002.
 17. **Advisor, Selection Committee for ARS/NET/SRF Examinations**, Agricultural Scientists Recruitment Board (ASRB), New Delhi, June 10, 2002.
 18. **Member, Expert Committee for Women Scientists Scheme on Life Sciences**, DST, New Delhi, 2003.
 19. **Member, Special Committee for Library Resources**, INSA New Delhi, 2003.
 20. **Member, Research Advisory Committee**, Central Institute of Brackishwater Aquaculture (CIBA), Chennai, 2002-2005.
 21. **Member, Research Council, Sher-e-Kashmir University of Agricultural Sciences and Technology, (SKUAST)**, Jammu, 2003-2006.
 22. **Member, Project Advisory & Review Committee (PARC)**, Central Forensic Science Laboratory (CFSL), Calcutta, 2003-2008.
 23. **Member, Project Screening Committee (PSC) and Scientific Panel (Fisheries)**, ICAR, New Delhi, July 22-24, 2003.
 24. **Member, Quinquennial Review Team (QRT)**, National Bureau of Animal Genetic Resources, (NBAGR), Karnal, Haryana, (2003-2004) & (2004-2005).
 25. **Member, DNA Profiling Advisory (D-PAC) sub-Committee on QC&QA of DNA evidence & Infrastructure**, CDFD, Hyderabad, 2004 -2005.
 26. **Member Training, Research and Academic Council (TRAC)**, Wildlife Institute of India, Dehradun, 2005-2007.
 27. **Member, Subject Expert Committee on Life Sciences on the FIST Program**, Department of Science and Technology (DST), New Delhi. 2007
 28. **Member Expert Committee and Consultant: International Primate Core Group**, Jodhpur, Rajasthan, October 21-23, 1999.
 29. **Member, Life Science Panel, National Council for Promotion of Urdu Language (NCPUL)**, Ministry of Human Resource Development, New Delhi, Govt. of India.
 30. **Member, Expert Committee, BOYSCAST Program, DST**, New Delhi, 2005-2007.
 31. **Member, Faculty of Life Sciences, Aligarh Muslim University, Aligarh -202 002**, (2006-2007).
 32. **Member, Expert Committee on Life Sciences, FIST Program, DST**, New Delhi 2005-2006.
 33. **Member, Steering Committee, National Institute of Animal Biotechnology**, DBT, New Delhi.
 34. **Member, Task Force, Animal Biotechnology, DBT**, New Delhi (2006-2008).
 35. **Member, Board of Management of the Centre for Interdisciplinary Research in Basic Sciences (CIRBSc)**, Jamia Millia Islamia, Jamia Nagar, New Delhi- 110 025

36. **Member Expert, Screening Committee, DAAD** applicants from India, October 30, 2007.
37. **Member, Research Advisory Committee (RAC)**, Central Institute of Fisheries Education (CIFE), Mumbai, 11-12-2007-10-12-2010.
38. **Member, Board of Management, Gautam Buddha University**, Gautam Budh Nagar, Greater Noida, UP-201 308.
39. **Member, National Assessment and Accreditation Council (NAAC)**, Bangalore 560 072.
40. **Member Expert, Institutional Biosafety Committee (IBSC)**, Gautam Buddha University, Greater Noida, UP 2010-2013
41. **Member, Board of Studies, Center for Diabetes and Endocrinology**, JN Medical College, AMU, Aligarh-2, 2010-2013
42. **Member, Research Advisory Committee, Central Institute of Freshwater Aquaculture**, Bhubaneshwar, Orissa, 2010-2012
43. **Member, Apex/Core Committee, National Institute of Immunology**, New Delhi -67, 2010-2013
44. **Member, Governing Body, National Institute of Immunology**, New Delhi -67, (2010 – 2013) (three years).
45. **Member, Research Advisory Committee, National Bureau of Fish Genetic Resources (NBFGR)**, Lucknow, From (2010 – 2013).
46. **Member, Research Degree Committee (Human Genetics)**, Guru Nanak Dev University, Amritsar from (2010 – 2012).
47. **Member, Board of Management, Bundelkhand University, Jhansi 227 132**, (2011- 2013).
48. **Member, Advisory Committee, Gujarat Genetic Diagnostic Center (GenDice)**, Ahmadabad, Gujarat, 2011-2013.
49. **Member, Doctoral Research Committee, Amity University**, Noida, UP.
50. **Member, Expert Committee, Infrastructural requirement for the School of Emerging Life Technologies and Human Genetics**, Central University, Punjab, Bhatinda
51. **Member, Expert Committee, Swarna Jayanti Fellowship, DST**, New Delhi. 2013
52. **Member Expert, Project Advisory Committee, (Animal Sciences)**, DST, New Delhi, 2012-2015.
53. **Member Expert, Screening Committee, Indo-US Research Fellowship 2013 in Life/Medical Sciences**, USEFI, New Delhi.
54. **Member, Advisory Committee, Shanti Swarup Bhatnagar Award, CSIR**, New Delhi. 2013
55. **Member, Sectional Committee-VIII (Animal Sciences)**, INSA, New Delhi, 2012-2014.
56. **Member Council, Indian National Science Academy (INSA)** New Delhi (2013-2015).
57. **Member, Sectional Committee VII, (Animal and Plant Science)** Indian Academy of Sciences, Bangalore (2013 – 2015)
58. **Member, Advisory Committee, Shanti Swarup Bhatnagar Award, CSIR**, New Delhi, **2013, 2014.**

59. **Member Expert, Assessment Committee, Indian National Science Academy, New Delhi (2013)**
60. **Mentor DST INSPIRE Program** even since the program was launched by DST, New Delhi (delivered 16 lectures to different Academic Institutions in the country).
61. **Member Expert, Academic Committee, International Center for Genetic Engineering and Biotechnology, ICGEB (New Delhi-67), Jan 2014- Jan 2015.**
62. **Member, Planning Committee for SERB-School in Insect Biology, DST, New Delhi, Government of India.**
63. **Member, Expert Committee for Faculty Recruitment. SLS, Ravenshaw University, Cuttack, August 25-28, 2014.**
64. **Member, Advisory Committee, SGT University, Gurgaon.**
65. **Member Expert, Selection Committee, SS Bhatnagar award, CSIR, Pusa, New Delhi 2014**
66. **Member Expert, Swarna Jayanti Fellowship Award, DST, New Delhi, 2014**
67. **Member Expert DST-INSPIRE Faculty Selection Committee, AIIMS. Bhopal October 26, 2014**
68. **Member, Animal Science and Biotechnology Research Committee, CSIR, New Delhi 2015-2018.**
69. **Member, Board of Studies, ICGEB, New Delhi-110067 (2014-2016).**
70. **Member, National Planning Committee on SERB School on Insect Biology (2015), Department of Animal Biology, School of Life Sciences, University of Hyderabad, Hyderabad-500 046 (August 10-11, 2015).**
71. **Member, Academic Council, Central University, Kashmir, Srinagar, Kashmir 2015-2017.**
72. **Member, DBT Twining R &D program for NER (Animal and Aquaculture Biotechnology), 2016-2018.**

Member, Inspection Team appointed by the IP University, New Delhi for:

1. Army College of Medical Sciences, Delhi Cantt May 2, 2015
2. NDMC Medical College, Hindu Rao, May 8, 2015
3. Baba Saheb Ambedkar Medical College and Hospital, Sector 6, Rohini, New Delhi. June 3, 2015.
4. Vardhman Mahavir Medical College, Ansari Nagar West, New Delhi -10021, June 4, 2015

HOST SCIENTIST FOR CV RAMAN INTERNATIONAL FELLOWSHIP FOR AFRICAN RESEARCHERS 2013 PROGRAM

1. DR. MOHAMED SABER HASSANANE, Cell Biology Department
National Research Center, Tahrir Street, 12622 Dokki. Giza, **Egypt (Availed)**
2. Dr. CHINWE CHRISTY ISITUA, University of Benin, Department of Microbiology,
Faculty of Life Sciences, P.M.B.1154, Benin City, **Nigeria.**

RESEARCH PUBLICATIONS (See Annexure-I for list of publications)

- *Published 95 research papers in peer reviewed international journals of Genetic and molecular biology such as American Journal of Human Genetics, Nucleic Acids Research, BBRC, Human Genetics, Gene, Chromosoma, Analytical Biochemistry, Experimental Cell Research, BMC Genomics and PLoS ONE, DNA Cell Biology etc. Papers appeared in these journals have been very well received and extensively cited. Several studies related to thrust areas are viewed to be very significant in the field of Molecular Human and Animal Genetics.*
- *Figures from the research work were placed on the cover page of the Journals, twice on the DNA and Cell Biology and once on Molecular Human Reproduction, Oxford University Press, UK.*
- *The work mentioned here represents comprehensive comparative genomics encompassing diverse spectrum of animal models from invertebrates, fishes to different mammals such as bovids, Rhino, rats, swamp deer and humans, an ensemble of basic and applied research.*
- *Also contributed 03 chapters in books and 01 Book Review.*

Significance of the Research Contribution:

- Provided, for the first time, an alternative strategy of human DNA fingerprinting using synthetic oligo probe and this work published in the Journal of Human Genetics 1986, 74: 239-243 is one of two most cited papers in this area.
- Paper published in European Journal of Immunology 1986 on leukemic cells (cancer cells) was a very significant contribution in advanced Immunological Research and attracted the attention of pharmaceutical companies.
- Work published in American Journal of Human Genetics (1988), Nucleic Acid Research (1988) and Analytical Biochemistry (1989) has great applied potential in the context of genetic diseases and diagnosis based on DNA probe.
- The work on the Human Y chromosome related anomalies in the Journals of Clinical Genetics (1996), DNA and Cell Biology (2004), Molecular Human Reproduction (2006) and BMC Genomics (2005) has diagnostic potential in the context of in/fertility.
- Extensive work carried out on the genomics of bubaline system and development of DNA based probes, published in DNA and cell Biology (1997, 1999, 2000,

2001), Gene (1998) and BMC Genomics (2006, 2007) has practical usefulness demonstrated for DNA profiling in the actual farm conditions.

- Genetic markers were also developed for ascertaining the origin of animal specific tissues of endangered species like Rhino and swamp deer published in Gene (1996, 1998). This is useful in the management and conservation programmes of these endangered animals.
- Recent work related to germline genetics appeared in PLoS ONE and BMC Genomics and BMC Cancer (see list of Publications) has opened up newer vistas of research. This leads towards development of reliable genetic markers for in/fertility and cancer cells.

In summary, these studies have direct bearing in the areas of basic animal and human genetics, stem cell research, cancer biology, tissue and organ transplantation, cell engineering and identification of species in the context of wild life management and conservation (See, *Biotech News* 7: (1-2) 5-7).

ANNEXURE-I

Research Publications (Professor Dr. Sher Ali)

97. Anju Kumari, Sandeep Kumar Yadav, M.M. Misro, Jamal Ahmad, **Sher Ali** (2015) Copy number variation and microdeletions of the Y chromosome linked genes and loci across different categories of Indian infertile males, ***Scientific Report* 5**, 1778-; doi:10.1038/srep17738 (2015) Nature Publishing Group.
96. Nabodita Kaul and **Sher Ali** (2015) Genes, Genetics and Environment in Type 2 Diabetes: Implication in Personalized Medicine, ***DNA and Cell Biology* 35 (1)** DOI: 10-1089dns.2015, 2883. Figure from this manuscript was selected for the cover page of the journal.
95. Deepali Pathak, Sandeep Kumar Yadav, Leena Rawal, and **Sher Ali** (2015) Mutational landscape of the human Y chromosome linked genes and loci in patients with Hypogonadism. ***Journal of Genetics***, DOI: 10.1007/s12041-015-0582-1.
94. Panwar D, Rawal L, Sehgal N, **Ali S** (2015). Cross talk between KGF and KITLG proteins implicated with ovarian folliculogenesis in buffalo *Bubalus bubalis*. ***PLoS ONE*, 10(6):e0127993**.doi:10.1371/journal.pone.0127993
93. Leena Rawal, Deepali Pathak, Neeta Sehgal and **Sher Ali** (2015) Transcriptional dynamics of Homeobox C11 gene in water buffalo *Bubalus bubalis*. ***DNA and Cell Biology***, 34(6)1-12. DOI:10.1089/dna.2014.2737

92. Deepak Panwar, Leena Rawal and **Sher Ali** (2014) Molecular docking uncovers TSPY binds more efficiently with eEF1A2 compared to eEF1A1. **Journal of Biomolecular Structure and Dynamics** **21**: 01-12 DOI(10.1080/07391102.2014.952664.).
91. Monal Sharma, Leena Rawal, Deepak Panwar, Neeta Sehgal and **Sher Ali** (2014) Differential expression of Homeobox C11 protein in water buffalo *Bubalus bubalis* and its putative 3D structure. **BMC Genomics**, **15**: 638-349 (DOI: 10.1186/1471-2164-15-638).
90. Sandeep K Yadav, Anju Kumari, Saleem javed and **Sher Ali** (2014) DYZ1 arrays show sequence variation between the monozygotic males. **BMC Genetics**, **15**:19-31.
89. Leena Rawal, Neeta Sehgal and **Sher Ali** (2013) Genome Analysis and Human Health: A Critical Appraisal. **Global Journal of Human Genetics and Gene Therapy**, **1**:16-37.
88. Suchitra Kamle and **Sher Ali** (2013) Mutations in *H-ras* gene and Costello syndrome. **The Journal of Genetics- Photon**, **114**:124-129.
87. Suchitra Kamle and **Sher Ali** (2013) Reverberations on Biosafety Issues pertaining to Genetically Modified Crops. **Biosafety**, **2**:112- 114.
86. Sandeep Kumar Yadav, Anju Kumari and **Sher Ali** (2013) Fate of the human Y chromosome linked genes and loci in prostate cancer cell lines DU145 and LNCaP. **BMC Genomics**, **14**: 323-330. [This work was highlighted together with global body of data in **Prostate cell News**, 418, May 17, 2013, a weekly e-newsletter Published by Connexon Creative].
85. Suchitra Kamle and **Sher Ali** (2013) Genetically Modified Crops: Detection Strategies and Biosafety Issues **Gene** **522**: 123-132.
84. **Sher Ali** (2012) Animal DNA Fingerprinting- Beyond Dolly. **Biotech News** **7**: (1-2) 5-7.
83. Rana Samad, Deepali Pathak, Farhan Ali, Leena Rawal and **Sher Ali** (2012) Uniqueness of the Extracellular Domain of Protooncogene *c-kit* Receptor across the Species: Implications in Conservation of Biodiversity. **Proc. Indian Natn. Sci Acad.** **78** (4): 651-670.
82. Anju Kumari , Sandeep Kumar Yadav and **Sher Ali** (2012) Organizational and Functional Status of the Y-linked Genes and Loci in the Infertile Patients having Normal Spermogram. **PLoS ONE** **7**(7): e41488. doi:10.1371/journal.pone.0041488 [also appeared as Research Highlight - entitled "Genetics of Infertility" in Nature India doi:10.1038/nindia.2012.165; Published

online 15 November 2012 and **covered by** Hindustan Times, December 12, 2012, page 13 as science news].

81. Masum Saini, Ajaya Nand Jha, Andleeb Abrari and **Sher Ali** (2012) Expression of proto-oncogene *KIT* is up-regulated in subset of human meningiomas, ***BMC Cancer*, 12**: 212-223.
80. Masum Saini, Ajaya Nand Jha, Andleeb Abrari and **Sher Ali** (2012) A subset of human gliomas shows over-expression of KIT without its amplification. ***Gene*, 497**:155-163.
79. Leena Rawal, Safdar Ali and **Sher Ali** (2011) Molecular mining of GGAA tagged transcripts and their expression in water buffalo *Bubalus bubalis* ***Gene* 492** (2012) 290–295. doi:10.1016/j.gene.2011.10.004 (on line).
78. Sudeep Kumar, Ruchi Gupta, Sudhir Kumar and **Sher Ali** (2011) Molecular mining of alleles in buffalo *Bubalus bubalis* and characterization of *TSPY1* and *COL6A1* genes, ***PLoS ONE* 6**(9): e24958. doi:10.1371/journal.pone.0024958.
77. Deepali Pathak and Sher Ali (2011) RsaI repetitive DNA in Buffalo *Bubalus bubalis* representing retrotransposons, conserved in bovids, are part of the functional genes, ***BMC Genomics*,12**:338-000 (doi:10.1186/1471-2164-12-338).
76. Anupuma Raina, Bhuvnesh Yadav, Sher Ali and Tirath Das Dogra (2010) Misinterpretation of Results in Medico-legal cases due to Microdeletion in the Y-chromosome. ***Molecular and Cellular Probes*, 24**: 418-420.
75. Safdar Ali and Sher Ali (2010) Genetic Integrity of the human Y chromosome exposed to groundwater arsenic. ***BMC Medical Genomics*, 3**: 35-46. doi:10.1186/1755-8794-3-35.
74. Deepali Pathak, Jyoti Srivastava, Rana Samad, Iqbal Parwez, Sudhir Kumar and Sher Ali (2010) Genome wide search of genes tagged with the consensus of 33.6 repeat loci in buffalo *Bubalus bubalis* employing minisatellite associated sequence amplification. ***Chromosome Res*, 18 (4)**:441-458. DOI.10.1007/s10577-010-9132-0.
73. Sanjay Premi, Jyoti Srivastava, Jörg Thomas Eppelen and **Sher Ali** (2010) AZFc Region of the Y-Chromosome Shows Singular Structural Organization. ***Chromosome Res. 18 (4)*** 419-430. DOI.10.1007/s10577-010-9123-1. (Online April 7, 2010)
72. Jyoti Srivastava, Sanjay Premi, Sudhir Kumar and **Sher Ali** (2009) Expressional dynamics of minisatellite 33.15 tagged spermatozoal transcriptome in *Bubalus bubalis* ***BMC Genomics* 10**:303-311.

71. Sanjay Premi, Jyoti Srivastava, Sebastian Padinjarel Chandy and **Sher Ali** (2009) Unique Signatures of the Natural Background Radiation on the Human Y chromosomes from Kerala (INDIA). *PLoS One* **4(2): e4541**.
70. Sanjay Premi, Jyoti Srivastava, Ganesan Panneer and **Sher Ali** (2008) Startling Mosaicism of the Y-Chromosome and Tandem Duplication of the *SRY* and *DAZ* Genes in Patients with Turner Syndrome. *Plos One* **3(11): e3796**.
69. Jyoti Srivastava, Sanjay Premi, Sudhir Kumar and **Sher Ali** (2008) Organization and differential expression of the GACA/GATA tagged somatic and spermatozoal transcriptomes in Buffalo *Bubalus bubalis*. *BMC Genomics* **9:132 -148**.
68. Safdar Ali and **Sher Ali** (2008) Multidimensional approaches in dealing with prostate cancer. *Gene*, **410: (1), 1-8**.
67. Jyoti Srivastava, Sanjay Premi, Sudhir Kumar, Iqbal Parwez and **Sher Ali** (2007) Characterization of *Smoc-1* uncovers two transcript variants showing differential tissue and age specific expression in *Bubalus bubalis* *BMC Genomics* **8: 436-450**.
66. Safdar Ali and **Sher Ali** (2007) Role of c-kit/SCF in cause and treatment of gastro intestinal stromal tumors (GIST). *Gene*, **401:38-45**. [Listed amongst Top 20 Articles, in the Domain of Article 17659849, Since 2007 (publication date of the domain article) see link- <http://signup.wipimd.com/urlu8c?srk=7e5126ad4b3980de38cfc5b59ef783009fbc1478095e9d6618fa4b01ee468f53>].
65. Sanjay Premi, Jyoti Srivastava, Sebastian Pandinjarel Chandy and **Sher Ali** (2007) AZFc Somatic Microdeletions and Copy Number Polymorphism of the *DAZ* Genes in Human Males Exposed to Natural Background Radiation. *Human Genetics*, **121: 337-346**. Epub 2007, Feb 17.
64. Deepali Pathak, Sanjay Premi, Jyoti Srivastava, Sebastian Padinjarel Chandy and **Sher Ali** (2006) Genomic Instability of the *DYZ1* Repeat in Patients with Y Chromosome Anomalies and Males Exposed to Natural Background Radiation. *DNA Research*, **13: 103-109**.
63. Soma Sarkar, Babita Kumari and **Sher Ali** (2006) Effect of Radiofrequency Electromagnetic Field on Human DNA. *Defence Science Journal* **56: 199-208**.
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1. **Sher Ali** (2007) Guide to DNA test in paternity determination and criminal investigation (A Lawyers Handbook) Author: Abhijeet Sharma, Wadhwa and Company, **Current Science.** **93**: (8) pp 1-2.

Radio Talks /TV shows (Title and date)

India TV live, Synthetic life May 21, 2010, 12:00 Noon
ZEE News/Star TV recorded broadcasting, May 21, 2010, 5:00PM.
CNEB Live coverage, Khap, Honor Killing and Genetics, June 18, 2010, 9:00 PM.
Gene and Genius, Live Coverage, News 24, July 20, 2010, 10-11:30PM

ANNEXURE-II

A: Details of Completed Research Projects of Dr. Sher Ali

S. No.	Title of project	Funding Agency	Total cost of project	Status
1.	Development of DNA Probes for Detecting Monomorphic and Polymorphic loci in the <i>Bubalus bubalis</i> genome	Department of Science and Technology, New Delhi	Rs. 18.50 lacs	Completed
2.	Studies on DNA Sequence Variation in <i>Rhinoceros Unicornis</i> genome	Wild Life Institute of India, Dehradun, India	Rs.5.00 lacs	Completed
3.	Molecular genetic studies on the hard ground Barasingha to assess the variation within and between animal species belonging to different sub-species of the Swamp Deer	Project Tiger, Kanha National Park, MP, India	Rs. 3.00 lacs	Completed
4.	Studies on Mutagenic and Carcinogenic Potentials of Microwaves	DRDO, Ministry of Defense, Govt. of India	Rs. 7.00 lacs	Completed
5.	DNA Sequence Diversity in the Human Y chromosome and Its Implications in Molecular Diagnosis	DBT, New Delhi	Rs. 42.46 lacs	Completed
6.	Cloning and Transcriptional Analysis of Minisatellite Associated Sequences in the Bubaline <i>Bubalus bubalis</i> genome	DST, New Delhi	Rs. 12.52 lacs	Completed
7.	Molecular Characterization of Satellite Tagged Transcribing Sequences (STTS) in the Bubaline <i>Bubalus bubalis</i> Genome	DBT, New Delhi	Rs. 85.94 lacs	Completed
8.	Molecular Analysis of the mRNA Transcripts from the Germline of Buffalo (<i>Bubalus bubalis</i>) tagged with Minisatellites and their Possible Functional Status in Somatic Tissues.	DBT, New Delhi	Rs. 180.53 lacs	Completed
9	Analysis of the Y-linked Genes and Loci in Patients with Sex Chromosome Related Anomalies	DBT, New Delhi	Rs. 33.43 lacs	Completed

10	Molecular characterization of satellite tagged genes in water buffalo <i>Bubalus bubalis</i> .	DBT, New Delhi	Rs. 41.02 lacs	Completed
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B: Ongoing Projects

S. No.	Title of project	Funding Agency	Total cost of project	Status
1.	Characterization of mRNA transcripts from the human spermatozoa across the tissues and cells lines	(JC Bose) DST, New Delhi	Rs.65.00 lacs	On-going
2.	Molecular characterization of the genes isolated from the spermatozoa of water buffalo <i>Bubalus bubalis</i> and their expression across the tissues.	DST, New Delhi	Rs. 49,89,600/-	On-going

Academic Referees: (International)

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