

CURRICULUM VITAE

Dr. Subodh Kumar Srivastava
Sr. Lecturer
Amity Institute of Biotechnology
AMITY UNIVERSITY
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NOIDA, UTTAR PRADESH
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SPECIALIZATIONS: Genomics and Molecular Biology

EXPERIENCE: Research Experience: 5 year (after M.E. Biotechnology)
Teaching Experience: 2 year

EDUCATION QUALIFICATION:

- PhD (Plant Genomics) BITS Pilani (2009)
- M.E. (Biotechnology) BITS Pilani (2001)
- M.Sc. (Ag) Genetics and Plant breeding – CSAUA&T Kanpur. (2000)

PROJECTS: DST-SERC Fast Track for Young Scientist:

Project Investigator

Project Title: Allele mining for starch synthase gene family and development of CAPs markers in *Orzya sativa* (Rice)

Publications nos. (Referred journals): 9

Posters / Conferences /Seminars : 12

Insilico BAC/PAC submission (NCBI db) : 60

PERSONAL DETAILS :

Father's Name : Shri P.C.Srivastava
Marital Status : Married
Date of Birth : July 23, 1977
Languages Known: English & Hindi

DISTINCTIONS/AWARDS:

- A member of International Rice Genome Sequencing Project which received "**World Technology Award 2003**".
- Award letter from **Hon'ble Prime Minister of India**.

EXPERIENCE: (Formal & Non-Formal/Courses)

Projects / Research Experience in different Institutions:

SL. No.	Designation	Period	Institution	Area & Work Done
1	Sr. Lecturer Lecturer	01 Aug 2008 – till date 24 July 2007 – 31 July 2007	Amity Institute of Biotechnology, Amity University, Uttar Pradesh, Noida	Research (60%) and Teaching (40%) <ul style="list-style-type: none"> • Cereal Genomics and SNP discovery. • Genome wide protein classification of rice. Teaching; <ul style="list-style-type: none"> • Genomics and proteomics
2	Research Associate (CSIR-RA)	25-sept 2006-23 July 2007	Birla Institute of Technology & Science, Pilani- Goa-Campus Goa	Research (80%) and Teaching (20%) <ul style="list-style-type: none"> • Single Nucleotide Polymorphism in the GBSS-I genes and its association with amylose quantity in Rice genotypes. (Thesis work) Teaching; <ul style="list-style-type: none"> • Genetic Engineering ; Theory and practical • Measurement Techniques-I, Practical • Laboratory (next semester)
3	Research Associate (DBT-project)	April 06-sept 06 (6 month)	Member of SOL Genomics Project-USA Indian Initiative for Tomato Genome Sequencing, Project. NCPGR-JNU Campus, New Delhi 67	Research (100%) <ul style="list-style-type: none"> • Identification and checking of BACs for NCPGR Region. • Sequencing of PUC18 library of identified BACs. • Assembly and gene prediction of the BACs • Standardization of PCR sequencing protocol. • Gap filling and finishing of submitted sequences.
4	Project Fello	Jan02 – Till date (3 & ½ Year)	Indian Initiative for Rice Genome Sequencing, Project, NRC On Plant Biotechnology IARI , New Delhi-12	Research (100%) <ul style="list-style-type: none"> • Standardization of Sequencer (MegaBACE 1000 & 4000) • Total base pairs submitted 6.7 millic with (10X = 67 million, Phrad 20)

				<ul style="list-style-type: none"> • Gap filling and finishing of submitted sequences. • Rice – Wheat Synteny: A gene by gene approach SNP Analysis in Rice
5	BITS Trained	July01-Dec01 (6 months)	Central Drug Research Institute, Lucknow	<ul style="list-style-type: none"> • Hands-on-Training Identification, Cloning and Sequencing upstream region of FAS II gene of <i>M. tuberculosis</i>
6	Project	Jan01-July01 (6 months)	Birla Institute of Technology & Science, Pilani	<ul style="list-style-type: none"> • Hands-on-Training Somaclonal Variation in Kinnow (Citrus)
7	Thesis work	1998-2000 (2 Years)	CSAUA&T Kanpur	Effect of Radiation on Bio-Chemical and morphological traits of <i>capsicum annum</i>

TECHNICAL EXPERTISE

Marker Analysis

- PCR based DNA markers like SSR, ESTs, and SNP etc.

High throughput Genome Sequencing

- Genomic and Plasmid DNA isolation, quantification and restriction analysis
- Gel Electrophoresis techniques
- Physical mapping techniques for genome sequencing
- High throughput shotgun cloning
- High throughput genome sequencing
- Geno-informatics, gene-prediction and assembly of sequences.

TRAININGS UNDERGONE:

- National workshop on Radiochemistry and Application of Radioisotopes at BITS, Pilani, conducted by Bhabha Atomic Research Centre, Trombay, Mumbai.
- AICTE-ISTE Short Term Training Programme on Molecular Biological Techniques in Biotechnology (2000) at BITS, Pilani.
- Specialization in Genetics & Plant Breeding during undergraduate courses.
- Training in Practical Crop Production.
- Rural Agricultural Works Experience (RAWE).
- Proficiency in Information and System management from Aptech Computer.

EXTRA-CURRICULAR ACTIVITIES:

- Participated as University Captain in All-India inter-University Chess-Tournament in 1998-99.
- Participated in ALL India (North- zone) Inter University Badminton in 1997-98.

RESEARCH EXPERIENCES / PROJECTS: (Details of Post-graduate work):

1. Indian Initiative for Tomato genome Sequencing; (April 2006 –Sept. 2006) at Natinal Center for Plant Genome Research-JNU Campus, New Delhi

Worked in International Tomato genome sequencing project which had a responsibility to generated high quality DNA sequence data to sequence 2 Mbp of DNA from the Chromosome 05 (56.9cM - 109.3cM) of *Solenum esculentum* (Heize cultivar).

2. Indian Initiative for Rice genome Sequencing: (Jan 2002 -Dec, 2005) at NRC-Plant Biotechnology, IARI, New Delhi.

Worked in International Rice Genome Sequencing project which had a responsibility to generated high quality DNA sequence data to sequence 6.5 Mbp of DNA from the long arm of Chromosome 11 (57.3cM – 83.4.3cM) of *Oryza sativa* (japonica cultivar-group). Out of this 56.9cM - 83.9cM has been allocated to NRCPB, IARI as a part of the international consortium. That has now covered 100% of the entire 7 Mb of Rice genome. This project employs a very systematic clone-by-clone sequencing strategy wherein a series of a large number of BAC / PAC clones covering the minimum tiling path which have been anchored by appropriate markers at their respective positions on each chromosome. All these clones have now been sequenced to 10X coverage and have been submitted to GenBank by 29th Nov. 2002.

3. Identification Cloning and Sequencing of upstream region of FAS II gene of *M. tuberculosis*; (July 2001-December, 2001) at Central Drug Research Institute (CDRI), Lucknow.

The project was aims at harnessing the completely delineated *M.tb* genome towards the identification of drug targets for tuberculosis using various bioinformatics tools. Further, it involves experimental evaluation and characterization of *in silico* predictions using molecular biology techniques like PCR, cloning, sequencing and *in vitro* expression of chosen candidate genes whose potential, as therapeutic candidates will be scrupulously assessed.

3. Somaclonal Variation in kinnow (Citrus); (Jan 2001-July, 2001) at BITS, Pilani.

The project was carried out on Kinnow mandarin to study the effect of callus age on plant regeneration and to assess somaclonal variation for different morphological traits and to study different phytohormones at various stages of the plant growth.

4. Effect of Radiation on Bio-Chemical and morphological traits of *Capsicum annuum*; (M.Sc. Thesis, 1998-2000).

Outline of PhD Research:

Title: Single Nucleotide Polymorphism in the Starch Synthase (GBSS-I) gene and its association with starch quantity in Rice genotypes.

Under Guidance: Dr. Utpal Roy

The blue print of rice genome data provides valuable information on genome structure and gene organization, it opens up a plethora of opportunities for research related to the life Science, biochemistry molecular biology, genetics, and plant breeding to utilize its potential. To elucidate the various member of starch synthase pathway this forms Amylose and amylopectin in the cereals. The whole genome analysis of starch synthase gene family was done which reveals that there are total 13 genes involved in the starch synthesis which can easily grouped into Starch Synthase-I (SS-I), Starch Synthase-II (SS-II), Starch Synthase-III (SS-III) , Starch Synthase-IV (SS-IV) , Granule Bound Starch Synthase (GBSS) and Starch Branching Enzyme (SBE). The formation of amylose involves on 10 genes. The members of starch synthases gene family were mapped on rice chromosomes based on International Rice Genome Sequencing Project (IRGSP) BAC information. The further studies was done for GBSS group which revealed that the GBSS-I which is mostly found in endosperm of rice was solely responsible for amylose synthesis within rice endosperm. The Endosperm (seed) of 48 different rice genotypes were taken up for Single Nucleotide Polymorphism study with in the GBSS-I gene on Indian cultivars and amylose of the rice genotypes were correlated with the different polymorphism.

LIST OF DETAIL PUBLICATIONS:

1. **Subodh K Srivastava** and Utpal Roy, Single Nucleotide Polymorphism in Granule Bound Starch Synthase –I (GBSS-I) gene in Indian rice genotypes. *IJIB*, Vol.3, No.1, 50- 56, 2008
- 2.
3. **S.K. Srivastava**, M. Agrawal and M. Grover, Genome Wide Single Nucleotide Polymorphism Analysis of Mycobacterium Species and Subspecies; *Research Journal of Microbiology*, Vol. 4(3), 112-121, 2009
4. **Subodh K Srivastava**, M Grover and Utpal Roy, Genome-wide Insilico Identification of Starch synthase gene family members and mapping on rice Chromosomes.:(*IJPB*, accepted with minor revision-2009)
5. International Rice Genome Sequencing Project members: Indian Initiative for Rice Genome Sequencing (IIRGS), Indian Agricultural Research Institute (IARI) K. Gaikwad, A. Singh, V. Dalal, **S. Srivastava**, A. Dixit, A. K. Pal, I. A. Ghazi, M. Yadav, A. Pandit, A. Bhargava, K. Sureshbabu, K. Batra, T. R. Sharma, T.Mohapatra, N. K. Singh (Principal Investigator). The Map based sequence of Rice Genome, *Nature*; Vol: 436,793-800, 2005
6. The sequence of rice chromosomes 11 & 12, rich in disease resistance genes and recent gene duplications. The Rice genome Chromosome 11 & 12 consortia members. *BMC Biology*: 3 (20) 2005.
7. Nagendra K. Singh, Saurabh Raghuvanshi, **Subodh K. Srivastava**, Anupama Gaur, Ajit K. Pal, Vivek Dalal, Archana Singh, Irfan A. Ghazi, Ashutosh Bhargav, Mahavir Yadav, Anupam Dixit, Kamlesh Batra, Kishor Gaikwad, Tilak R. Sharma, Amitabh Mohanty, Arvind K. Bharti, Anita Kapur, Vikrant Gupta, Dibyendu Kumar, Shubha Vij, Ravi Vydianathan, Parul Khurana, Sulabha Sharma, W. Richard McCombie, Joachim Messing, Rod Wing, Takuji Sasaki, Paramjit Khurana, Trilochan Mohapatra, Jitendra P. Khurana and Akhilesh K. Tyagi.,. Sequence analysis of the long arm of rice chromosome 11 for rice-wheat synteny.;; *Functional and Integrative Genomics* 4:102-117, 2004.
8. Harvinder Singh, **Subodh Srivastava** and A K Singh., Path Analysis of Component Traits of Yield in Chilli (*Capsicum annum L.*).*Capsicum annum* for yield component, *Prog. Horti*. Vol. 37(2), 378-385, 2005.
9. Nagander K.Singh, **Subodh K. Srivastava**, Ajit K.Pal, Vevik dalal, Archana Singh, Kishor Gaikwad, T. R.Sharma, T.Mohapatra, A Gaur, Parmjit Khurana, J. P. Khurana and A.K. Tyagi: Rice-Wheat Synteny : A gene by gene analysis of the long arm of rice chromosome 11, *Proceedings of structural and functional Genomics*,(2003) 3:1059-1062, 10th International wheat genetics symposium Italy.

ORAL PRESENTATION:

10. **Subodh K Srivastava** "In-Silico Mapping of starch synthase genes in rice chromosomes and their relation with EST/Unigenes from important Plant species", National Conference on Microbial Diversity: Avenues and Applications 17-18, March 2007 SBSPGI, Dehradun. India.
11. **Subodh K Srivastava** "Sequence Analysis using Phred, Phrap and Consed" Birla Institute of Scientific Research (BISR)DBT workshop on Genomics and Bioinformatics, 16-18, Sept. 2005, Jaipur, Rajasthan, India.

Posters/ Abstracts:

International conferences:

12. **Subodh K Srivastava** and Utpal Roy, Genome-wide Analysis of Starch Synthase Gene family: International Conference on Bioinformatics (InCoB), at **Hong Kong**, 27-30 Aug. 2007
13. **Subodh K Srivastava**, K. Prakash Chudalayandi, Meenal Kawshik and Utpal Roy, Identification, Sequencing and SNP identification of Granule Bound Starch Synthase-I gene of Rice: International Conference on Bioinformatics (InCoB), at **Hong Kong**, 27-30 Aug. 2007
14. **Subodh K Srivastava** and Utpal Roy, Allele Mining for Granule Bound Starch Synthase (GBSS) genes in rice genome; International Conference on Bioinformatics (InCoB), at 24 Oct. **Taiwan** 2008 (Communicated)
15. Parul Tewatia, Subodh Srivastava, Shakti Sahi, Cytochrome P450, phylogenetic analysis, comparative gene analysis; International Conference on Bioinformatics (InCoB), at 24 Oct. **Taiwan** 2008 (Communicated)
16. Nagendra K. Singh, **Subodh K. Srivastava**, Ajit K. Pal, Vivek Dalal, Archana Singh, Kishor Gaikwad, Tilak R. Sharma, Trilochan Mohapatra, Anupama Gaur, Paramjit Khurana, Jitendra P. Khurana, Akhilesh K. Tyagi. (2003) "Rice-wheat synteny: a gene-by-gene analysis of the long arm of rice chromosome 11", an abstract and poster at the 10th International Wheat Genetics Symposium, Vol. 3, Section 5, 1059-1062, **Italy**, Sept. 01-06, 2003
17. N.K. Singh, M.H.M. Ammar, Y. Amaravathi, S. Anand, **S.K. Srivastava**, A. Bhargava, A.K. Pal, V. Dalal, A. Singh, M. Yadav, I.A. Ghazi, A. Dixit, K. Batra, K. Gaikwad, T.R. Sharma, T. Mohapatra, A.K. Singh, V.P. Singh, F.U. Zaman and R.K. Singh. (2003). "Functional Genomics for Complex Genetic Traits in Rice Using Immortal Segregating Population", an abstract and poster at the 1st International Rice Functional Genomics Symposium, Nov. 19 - 21, 2003, Shanghai, **China**.

National conferences:

18. **Subodh K Srivastava**, B.N.Singh and Utpal Roy, "Identification, Cloning and Sequencing of Upstream sequencing of the gene involved in the synthesis of fatty and mycolic acid in *Mycobacterium tuberculosis*", National Conference on Microbial Diversity: Avenues and Applications 17-18, March 2007 SBSPGI, Dehradun.
19. Raghuvanshi, S, A. Mohanty, A. Bharti, A. Gaur, A Kapur, V, Gupta, D.Kumar, V Ravi, S Vij, S Sharma, Parul Khurana, P. Khurana, JP Khurana, AK Tyagi, AK Pal, A Dixit, A Singh, A Bhargava, A Pandit, IA Ghazi, H Singh, M Yadav, M Ragiba, R Dixit, **S Srivastava**, S. Pal KS Babu, SC Swain, V Dalal, K Batra, K Gaikwad. TR Sharma, T. Mohapatra, NK Singh. (2004). Indian Initiative for Rice Genome Sequencing. 9th National Rice Biotechnology Network Meeting April 15-17. NASC Complex, New Delhi.
20. N.K. Singh, S. Raghuvanshi, **S.K. Srivastava**, A. Gaur, A.K. Pal, V. Dalal, A. Singh, I.A. Ghazi, A. Bhargav, M. Yadav, A. Dixit, K. Batra, K. Gaikwad, TR Sharma, T. Mohapatra, A. Mohanty, A.K. Bharti, A. Kapur, V. Gupta, D. Kumar, S. Vij, V. Ravi, Parul Khurana, S. Sharma, D. McCombie, J. Messing, R. Wing, T. Sasaki, Paramjit Khurana, J.P. Khurana, A.K. Tyagi. (2004) Sequence analysis of the long arm of rice chromosome 11 for rice-wheat synteny. 9th National Rice Biotechnology Network Meeting April 15-17. NASC Complex, New Delhi.
21. N.K. Singh, K. Gaikwad, K. Batra, M.H.M. Ammar, Y. Amarawati, S. Anand, **S.K. Srivastava**, A. Pandit, H. Singh, V. Dalal, A. Singh, I.A. Ghazi, M. Yadav, R. Dixit, P.K. Singh, S.D. Mendiratta, T. R. Sharma, T. Mohapatra, A.K. Singh, V.P. Singh, R.K. Singh. (2004). Functional genomics of rice: potential and prospects. International Symposium on Rice: "From Green Revolution to Gene Revolution", October 4-6, 2004, DRR, Hyderabad.
22. N.K. Singh, Vivek Dalal, Ajit K. Pal, Archana Singh, **Subodh K. Srivastava**, Irfan A. Ghazi, Mahavir Yadav, Rekha Dixit, Awadhesh Pandit, Ashutosh Bhargava, Anupam Dixit, Kishor Gaikwad, T.R. Sharma, T. Mohapatra. (2004). 'Vanshanu Dhan' - a map based rice gene database useful for mapping and cloning of candidate genes for important traits. International Symposium on Rice: "From Green Revolution to Gene Revolution", October 4-6, 2004, DRR, Hyderabad.
23. Raghuvanshi, S, A. Mohanty, A. Bharti, A. Gaur, A Kapur, V, Gupta, D.Kumar, V Ravi, S Vij, S Sharma, Parul Khurana, P. Khurana, J.P. Khurana, A.K. Tyagi, A. Singh, I.A. Ghazi, M. Yadav, **S.K. Srivastava**, V. Dalal, A. Pandit, R. Dixit, H. Singh, P.K. Singh, S.D. Mendiratta, V. Singhal, K. Batra, K. Gaikwad, T.R. Sharma, T. Mohapatra, N.K. Singh. (2004). Indian Initiative for Rice Genome Sequencing. International Symposium on Rice: "From Green Revolution to Gene Revolution", October 4-6, 2004, DRR, Hyderabad.

List of Electronic/ Insilco submission of BAC & PAC:

"Indian Initiative for Rice Genome Sequencing, Project " NRC-PB, IARI, New Delhi

GenBank Acc Nos. (SUBMITTED TO NCBI Databank)

Sl.	Clone Name	Stage	Ac.Nos.	Authors
1	OSJNBa0033H01	Phase III	AC134256	Srivastava,S.K. , Yadav,M., Singh,A.,
2	OSJNBa0052B22	Phase III	AC136787	Srivastava,S.K. , Pandit,A., Singh,A.,
3	OSJNBa0002A19	Phase III	AC133710	Srivastava,S.K. , Pandit,A., Mendiratta,S.D.,
4	OSJNBb0054A16	Phase III	AC137586	Srivastava,S.K. , **Kumar,D., Singh,H.,
5	OSJNBb0056I10	Phase III	AC134926	Mohapatra,T., Srivastava,S.K. , Singh,H.,
6	OSJNBb0064E13	Phase III	AC136905	Pandit,A., Srivastava,S.K. ,
7	B1356E08	Phase III	AC150702	Pandit,A., Srivastava,S.K. , Singh,H.,
8	OSJNBa0002B02	Phase III	AC137694	Singh,H., Pandit,A., Srivastava,S.K. ,
9	B1024A10	Phase III	AC150202	Mendiratta,S.D., Pandit,A., Srivastava,S.K. ,
10	OSJNBb0016F12	Phase I	AC152841	Singh,P.K., Singh,H., Srivastava,S.K. ,
11	OSJNBa0028G07	Phase III	AC136377	Yadav,M., **Kumar,D., Srivastava,S.K. ..
12	OSJNBa0005H23	Phase III	AC119678	Singh,H., Pandit,A., Srivastava,S.K. ..
13	OSJNBa0018K14	Phase III	AC120889	Singh,H., Pandit,A., Srivastava,S.K. ,
14	OSJNBb0001I22	Phase III	AC124150	Singh,H., **Kumar,D., Srivastava,S.K. ,
15	OSJNBa0063F24	Phase III	AC128706	Gaikwad,K., **Kumar,D., Srivastava,S.K. ,
16	OSJNBa0041I05	Phase III	AC134624	Sharma,T.R., **Ravi,V., Srivastava,S.K. ,
17	OSJNBa0082J12	Phase II	AC123535	Bhargava,A., Singh,A., Srivastava,S.,
18	OSJNBb0006N14	Phase III	AC137113	Gaikwad,K., Pandit,A., Srivastava,S.K. ,
19	OSJNBb0089M05	Phase III	AC135121	Pandit,A., Singh,A., Dalal,V., Srivastava,S.K. ,
20	OSJNBb0057M06	Phase III	AC135512	Gaikwad,K., Singh,A., Pandit,A., Dalal,V., Srivastava,S.K. ,
21	OSJNBa0078F08	Phase III	AC135568	Dalal,V., Ghazi,I.A., Dixit,R., Srivastava,S.K. ,
22	OSJNBb0018F17	Phase III	AC135569	Yadav,M., Ghazi,I.A., Dixit,R., Singh,H., Srivastava,S.K. ,
23	P0410D09	Phase III	AC109645	Ghazi,I.A., Pandit,A., Singh,H., Dalal,V., Singh,A., Dixit,R., Yadav,M., Srivastava,S.K. ,
24	OSJNBa0017K22	Phase III	AC109646	Mohapatra,T., Singh,A., Yadav,M., Ghazi,I.A., Pandit,A., Pal,A.K., Srivastava,S.K. ,
25	OSJNBa0079H11	Phase III	AC114012	Mendiratta,S.D., Pandit,A., Ghazi,I.A., Singh,P.K., Singh,A., Yadav,M., Gaikwad,K., Singh,H., Srivastava,S.K. ,
26	OSJNBa0078F20	Phase III	AC114011	Yadav,M., Dalal,V., Pal,A.K., Pandit,A., Singh,A., Dixit,R., Bhargava,A., Srivastava,S.,
27	OSJNBb0019E05	Phase III	AC124151	Batra,K., Singh,P.K., Pandit,A., Mendiratta,S.D., Singh,H., Srivastava,S.K. ,
28	OSJNBa0057E15	Phase III	AC131343	Pal,A.K., Pandit,A., Dalal,V., Singh,A., Dixit,R., Yadav,M., Srivastava,S.K. ,
29	OSJNBb0091D07	Phase III	AC132003	Dixit,R., Pandit,A., Dalal,V., Singh,A., Srivastava,S.K. ,
30	OSJNBa0080I08	Phase III	AC133248	Mohapatra,T., Singh,A., Ghazi,I.A., Singh,H., Yadav,M., Dixit,R., Pandit,A., Srivastava,S.K. ,

31	OSJNBb0085G12	Phase III	AC133608	Yadav,M., Pandit,A., Singh,P.K., Ghazi,I.A., Dixit,R., Singh,H., Srivastava,S.K. ,
32	OSJNBb0005H02	Phase III	AC134053	Singh,A., Yadav,M., Ghazi,I.A., Pandit,A., Srivastava,S.K. ,
33	OSJNBa0041J17	Phase III	AC134925	Ghazi,I.A., Yadav,M., Dixit,R., Singh,A., Srivastava,S.K
34	OSJNBa0070D14	Phase III	AC135242	Dalal,V., Pal,A.K., Dixit,R., Pandit,A., Swain,S.C., Sureshbabu,K., Singh,A., Pal,S., Gaikwad,K.,
35	OSJNBa0079N13	Phase III	AC135398	Ghazi,I.A., Dixit,A., Yadav,M., Srivastava,S.K. ,
36	OSJNBb0071K13	Phase III	AC135864	Dalal,V., Pandit,A., Singh,A., Pal,A.K., Dixit,R., Ghazi,I.A., Yadav,M., Srivastava,S.K. ,
37	OSJNBa0025K21	Phase III	AC136009	Pal,A.K., Pandit,A., Dalal,V., Dixit,R., Singh,A., Yadav,M., Srivastava,S.K
38	OSJNBa0023F12	Phase III	AC136150	Ghazi,I.A., **Kumar,D., Singh,A., Yadav,M., Dixit,R., Pandit,A., Singh,H., Srivastava,S.K. ,
39	OSJNBb0047D03	Phase III	AC136378	Singh,P.K., Singh,H., Pandit,A., Srivastava,S.K. ,
40	OSJNBa0007D07	Phase III	AC136481	Mohapatra,T., Yadav,M., Singh,A., Gaikwad,K., Ghazi,I.A., Srivastava,S.K. ,
41	OSJNBa0062E06	Phase III	AC136491	Singh,A., Dalal,V., Bhargava,A., Sharma,T.R., Pal,A.K., Dixit,A., Gaikwad,K., Srivastava,S.,
42	OSJNBa0027P09	Phase III	AC136786	Pandit,A., Singh,A., Dixit,R., Dalal,V., Srivastava,S.K. ,
43	OSJNBa0094M06	Phase III	AC136843	Dixit,R., Pandit,A., Dalal,V., Singh,A., Srivastava,S.K. ,
44	OSJNBa0090B19	Phase II	AC136925	Bhargava,A., Dalal,V., Sharma,T.R., Pal,A.K., Singh,A., Yadav,M., Gaikwad,K., Srivastava,S.,
45	OSJNBa0038B22	Phase III	AC136956	Pal,A.K., Dixit,A., Sureshbabu,K., Singh,A., Pal,S., Yadav,M., Gaikwad,K., Ghazi,I.A., Swain,S.C.,
46	OSJNBb0041J18	Phase III	AC137745	Srivastava,S., Singh,A., Yadav,M., Gaikwad,K., Pandit,A.,
47	OSJNBb0084M23	Phase III	AC137753	Dixit,R., Srivastava,S.K. ,
48	OSJNBa0041C22	Phase III	AC137752	Dixit,R., Singh,A., Yadav,M., Gaikwad,K., Srivastava,S.K. ,
49	OSJNBb0008H02	Phase III	AC137759	Sharma,T.R., **Ravi,V., Yadav,M., Gaikwad,K., Dixit,R., Pandit,A., Srivastava,S.K. ,
50	OSJNBa0010E20	Phase III	AC145306	Dixit,R., Yadav,M., Dalal,V., Pandit,A., Ghazi,I.A., Singh,P.K., Singh,A., Mendiratta,S.D., Singh,H.,
51	OSJNBa0030K09	Phase III	AC148759	Srivastava,S.K. ,
52	OSJNBa0094L06	Phase III	AC150654	Singh,A., **Kumar,D., Yadav,M., Ghazi,I.A., Pandit,A., Pal,A.K., Srivastava,S.K. ,
53	OSJNBa0072P10	Phase III	AC150698	Dixit,A., Ghazi,I.A., Yadav,M., Singh,A., Bhargava,A., Srivastava,S.,
54	OSJNOa0281D22	Phase III	AC151106	Ghazi,I.A., Singh,A., Yadav,M., Dixit,R., Pandit,A., Singh,H., Mendiratta,S.D., Singhal,V.,
55	OSJNOa0010H20	Phase III	AC151105	Singh,P.K., Srivastava,S.K. ,
56	OSJNBb0018H03	Phase III	AC151599	Singhal,V., Yadav,M., Mendiratta,S.D., Singh,P.K., Pandit,A., Dixit,R., Singh,A., Dalal,V.,
				Srivastava,S.K. ,
				Dalal,V., Pandit,A., Ghazi,I.A., Yadav,M., Singh,P.K., Singh,A., Mendiratta,S.D., Singh,H.,
				Srivastava,S.K. ,
				Gaikwad,K., Yadav,M., Pandit,A., Mendiratta,S.D.,
				Singh,P.K., Singhal,V., Singh,A., Srivastava,S.K. ,
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