

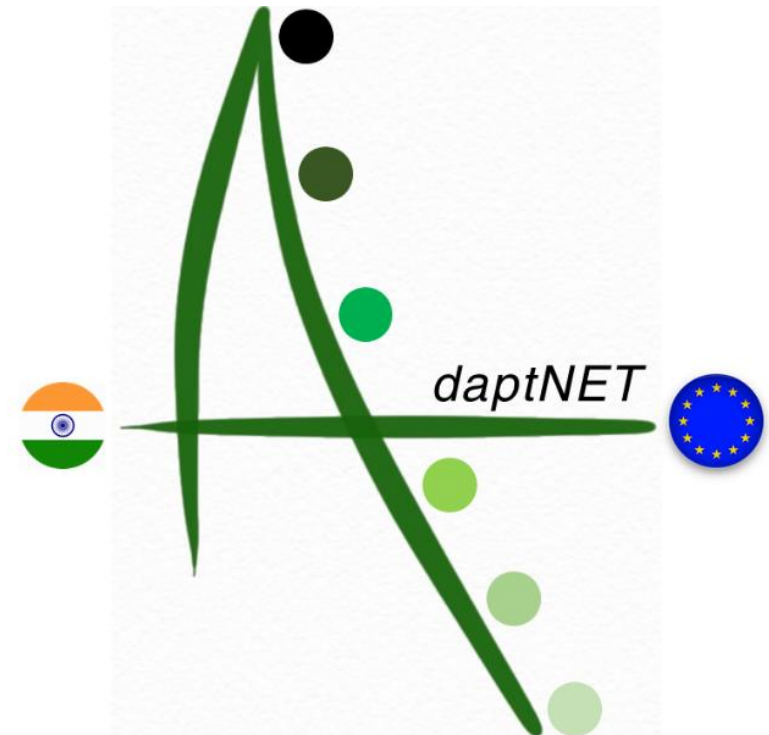
**Training Course on**





**Next generation genomics for developing climate resilient crops**

**ICRISAT, Hyderabad, India**

## **Speakers' Profile External**



**February 10-15, 2020**





Name & Affiliation	Short bio	Photo
<b>Bharadwaj Chellapilla</b> (ICAR-IARI, India)	<p>Dr Chellapilla is currently working as Principal Scientist, Chickpea and Molecular Breeding Programme, Division of Genetics, Indian Agricultural Research Institute (IARI), New Delhi, India. He is fellow of Indian Society of Pulse Research and Development; Indian Society of Genetics and Plant Breeding. His research areas are Plant Breeding and Genetics.</p>	
<b>Swapan Datta</b> (Univ. of Calcutta, India)	<p>Dr Datta is a well known scientist of rice biotechnology. He is well known for his pioneering research on genetic engineering of Indica rice. Dr. Datta has demonstrated the development of genetically engineered Indica rice from protoplast derived from haploid embryogenic cell suspension culture.</p>	
<b>PK Gupta</b> (CCS University, India)	<p>Prof Gupta is Hon. Emeritus Professor, department of genetics &amp; plant breeding, Ch. Charan Singh University, Meerut, since 2004. He has extensively worked on different areas of plant cytogenetics, induced mutations, and quantitative genetics utilizing both classical and molecular approaches (mainly in cereals and legumes). Professor Gupta brought Meerut on the international map in the field of crop cytogenetics, genetics and biotechnology.</p>	
<b>Lee Hickey</b> (The Univ. of Queensland, Australia)	<p>Dr Hickey is plant breeder and crop geneticist within the Queensland Alliance for Agriculture and Food Innovation at The University of Queensland, Australia. He leads an innovative team conducting discovery and applied research on Australia's most important cereal crops, wheat and barley. He has a strong interest in the integration of leading-edge breeding technologies, such as the rapid generation advance technology 'speed breeding' with genomic selection and genome editing.</p>	

<b>ML Jat</b> (CIMMYT-India, India)	Dr Jat is a principal scientist and systems agronomist who coordinates research on sustainable agriculture in maize and wheat based systems across Asia. He specifically leads CIMMYT's climate smart agriculture research portfolio in South Asia as part of the CGIAR Research Program on Climate Change, Agriculture and Food Security, where he focuses on developing and scaling conservation- and precision-based agriculture.	
<b>Hon-Ming Lam</b> (The Chinese Univ. of Hong Kong, Hong Kong)	Prof. Hon-Ming Lam is a renowned scientist specializing in soybean genomics, working at Centre for Soybean Research of the State Key Laboratory of Agro biotechnology and School of Life Sciences, The Chinese University of Hong Kong. He has completed his Ph.D. Northwestern University and his research interests includes Climate-smart and sustainable agriculture, Plant and agricultural biotechnology, and Genomic studies on crop-environment interaction.	
<b>Kutubuddin Ali Molla</b> (National Rice Research Institute, India)	Dr Molla is Scientist, Crop Improvement Division, ICAR-National Rice Research Institute, Cuttack, Odisha, India. His present positing is Fulbright Visiting Scholar, Pennsylvania State University, USA. He holds PhD in Agricultural Biotechnology.	
<b>T Nepolean</b> (ICAR-IIMR, India)	Dr Nepolean is currently working as Principal Scientist, in Plant Breeding and Genetics at Indian Institute of Millets Research, Hyderabad. He is coordinating AICSIP trials and nurseries as Project Coordinator, AICRP on Sorghum, and Development of superior pearl millet hybrids for marginal and favorable production systems.	

<p><b>Himanshu Pathak</b> (ICAR-NRRI, India)</p>	<p>Dr Pathak is Director of ICAR-National Rice Research Institute (NRRI), Cuttack. He has obtained PhD in Soil Science and Agricultural Chemistry from Indian Agricultural Research Institute (IARI), New Delhi. His research areas include soil science, climate change and environmental pollution. He is fellow of NASI, INSA, NAAS and WB Academy of Science and Technology, India.</p>	
<p><b>T Radhakrishnan</b> (ICAR-DGR, India)</p>	<p>Dr Radhakrishnan is Director at ICAR-Directorate of Groundnut Research (DGR), Junagadh, Gujarat, India. His key contributions to scientific advancement includes: Development of regeneration protocols; Plant genetic transformation and molecular characterization of transgenics; Development, screening and utilization of DNA markers; Development of high frequency regeneration protocols in groundnut and validated in 127 genotypes etc.</p>	
<p><b>Jagadish Rane</b> (NIASM, India)</p>	<p>Dr Rane is Principal Scientist and In-charge Head, ICAR-NIASM, Baramati. He has Ph.D. in Plant Physiology and his major research area includes Crop Physiology; Application of noninvasive tools and techniques to quantify plant responses to soil moisture deficit, high temperature, waterlogging and other abiotic stresses, organizing experimental data to decipher genetic variation in plant responses to stress.</p>	
<p><b>Tara Satyavathi</b> (ICAR-AICRP Pearl Millet, India)</p>	<p>Dr Satyavathi is Project Coordinator - All India Coordinated Research Project on Pearl Millet, ICAR, India. She has re-oriented pearl millet programme at IARI, developed hybrids and varieties, identified QTSL(s) for downy mildew resistance, development and identification of high grain iron and zinc pearl millet lines, genetic stocks for high lysine, high tryptophan, white grain etc.</p>	

<p><b>Sergey Shabala</b> (Univ. of Tasmania, Australia)</p>	<p>Professor Shabala is Head of the Stress Physiology Laboratory at the University of Tasmania (Australia) and a Distinguished Professor and a Director of the International Research Centre for Environmental Membrane Biology at Foshan University in China. His area of expertise is stress physiology and membrane transport in plants.</p>	
<p><b>Vikas Singh</b> (IRRI, India)</p>	<p>Dr Singh is currently working as Scientist-I (Plant Breeding) at the South Asia Hub, International Rice Research Institute, India. Before joining IRRI he worked at ICRISAT for almost 5 years Scientist, Genomics and trait discovery in legumes. He has completed his PhD from Chaudhary Charan Singh University, Meerut, India.</p>	
<p><b>RM Sundaram</b> (ICAR-IIRR, India)</p>	<p>Dr Sundaram is Senior Scientist (Biotechnology- Plant Sciences) at ICAR-Indian Institute of Rice Research, Hyderabad, India. His significant scientific achievements include: Fine-mapped two major, dominant rice gall midge resistance gene, Gm1 and Gm2, development a new rice fine-grain type, bacterial blight resistant variety possessing three resistance genes (Xa21, xa13 and xa5) called “Improved Samba Mahsuri” (IET # 19046) through marker-assisted backcross breeding.</p>	
<p><b>Bunjamin Tar'an</b> (Univ. of Saskatchewan, Canada)</p>	<p>Dr. Tar'an is Agri-Food Innovation Research Chair in Chickpea Breeding and Genetics and professor at the Department of Plant Sciences, College of Agriculture and Bioresources, University of Saskatchewan, Canada. His research has focused on development of high-yielding chickpea varieties and germplasm using conventional and genomic-based breeding approaches to help meet the growing global demand for protein.</p>	



<p><b>Yusaku Uga</b> (NARO, Japan)</p>	<p>Dr Uga is Principal Researcher of Breeding Material Development Unit, Institute of Crop Science, National Agriculture and Food Research Organization. Dr Yusaku's research aims are to identify and apply QTLs associated with root system architecture for genomic-based breeding to improve crop production under abiotic stress like drought and nitrogen deficiency.</p>	
<p><b>Eric Von Wettberg</b> (The Univ. of Vermont, USA)</p>	<p>Dr. Wettberg is an Assistant Professor in the Department of Plant and Soil Science at the University of Vermont with a research program focused on understanding crop domestication as a means to harness the diversity of crop wild relatives to breed crops with improved climatic resilience and stress tolerance. Broadly trained in evolution, genetics, ecology and agroecology, he uses a combination of field, greenhouse common garden, and laboratory approaches.</p>	

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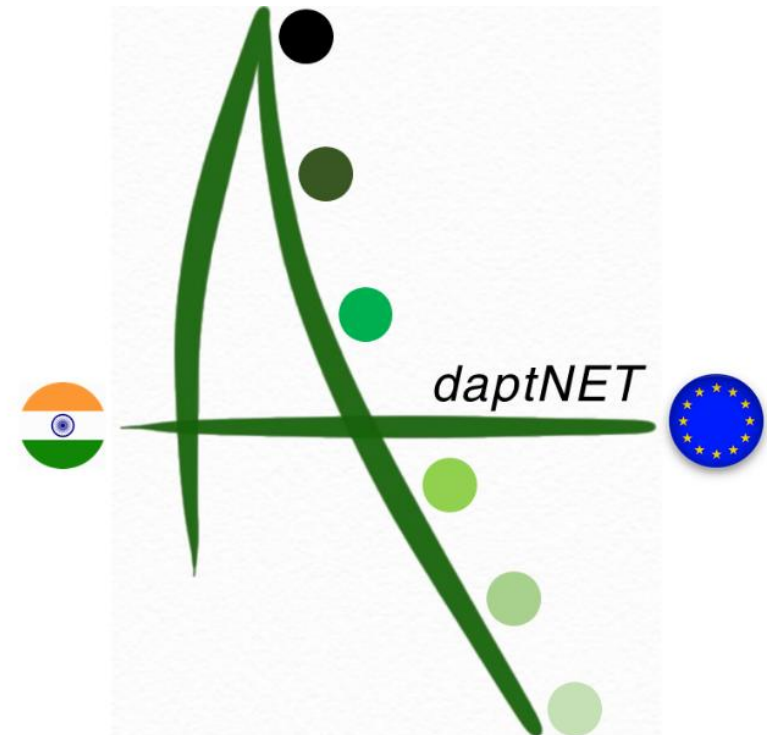
**Next generation genomics for developing climate resilient crops**





**ICRISAT, Hyderabad, India**

## **Speakers' Profile**





## **ICRISAT**





**February 10-15, 2020**







Name & Affiliation	Short bio	Photo
Vania Azevedo	Dr Azevedo is Head of the ICRISAT, Genebank. Before joining ICRISAT, she was working as a Scientific Researcher at Embrapa Genetic Resources and Biotechnology, at the Laboratory of Plant Genetics (2007-2018). She has coordinated Embrapa's Plant Genetic Resources Network between 2012-2018, a system with more than 140 germplasm banks throughout Brazil.	
Rajaguru Bohar	Mr. Rajaguru Bohar is currently working as HTPG - Project Coordinator at ICRISAT under Research Program Genetic Gains (Forward Breeding) since 2018 and coordinating the SNP based genotyping for 18 CGIAR crops. He is an experienced researcher in the field of molecular breeding with a demonstrated history of working in the Seed industry and international agricultural research organizations.	
Anu Chitikineni	Ms Chitikineni is Senior Manager at Center of Excellence in Genomics & Systems Biology (CEGSB) at ICRISAT, Hyderabad (India). In addition to coordinating next-generation sequencing (NGS) and high-throughput genotyping at ICRISAT, she is managing operational activities in CEGSB as well as Critical Focus Area- Molecular Breeding of ICRISAT in Asia, West & Central Africa and Eastern & Southern Africa.	
Santosh Deshpande	Dr Deshpande is a Senior Scientist (Molecular Breeding), GTD, Research Program-Genetic Gains, at ICRISAT, Hyderabad, India. He has over 11 years of experience in international agriculture research. His extensive experience in development of genetic and genomic resources has led to adoption of these technologies across several partner institutes in South Asia and sub-Saharan Africa.	





Pooran Gaur	Dr Gaur is currently working as Principal Scientist (Chickpea Breeding) and a Theme Leader for Crop Improvement at the ICRISAT, Hyderabad, India. Has over 30 years of experience in chickpea breeding and genetics.	
Murali K Gumma	Dr Gumma is, currently, Head of RS/GIS unit and Senior Scientist - GIS/Geospatial science with the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) 9 working across Asia and Africa. Gumma has 19+ years' experience working as a well-recognized international expert in remote sensing and geographic information systems (RS/GIS).	
Jana Kholova	Dr Kholova is Senior Scientist with the theme System Analysis for Climate Smart Agriculture (SACSA) at ICRISAT, Hyderabad, India. Her core competencies include dissection of environment-adaptive traits and translating them into high-throughput phenotyping methods, using system modelling tools to characterize target environments and predict the effect of adaptive traits in target agro-ecologies.	
Himabindu Kudapa	Dr Kudapa is a Senior Scientist (Genomics and Molecular Breeding), Research Program Genetic Gains, ICRISAT, Hyderabad, India. Her research efforts aimed at understanding molecular basis of biotic and abiotic stresses in legumes and cereals.	

Shalander Kumar	Dr Kumar is Principal Scientist, Innovation Systems for the Drylands, ICRISAT, Hyderabad. He has carried out extensive research for more than 2 decades in the field of economics of rainfed farming systems, whole farm modeling to support decision making at household and regional levels, and ex-ante & trade-off analysis to assess the impact of climate smart interventions.	
Pooja B Mathur	Dr Mathur is currently working as Theme Leader, Cell, Molecular Biology & Genetic Engineering, Genetic Gains Program at ICRISAT, Hyderabad, India.	
Nilesh Mishra	Mr Mishra is currently working as Senior Scientific Officer (ICT) under Genetic Gains Program at ICRISAT, Hyderabad, India. He is having 9+ years of experience specializing in communications, knowledge sharing, capacity building & training. His current engagement at ICRISAT as Senior Scientific Officer – ICT, focuses on Communications, Knowledge and Information sharing using digital platforms and tools.	
Manish Kumar Pandey	Dr Pandey is currently leading the Groundnut Genomics group at ICRISAT, Hyderabad, India. He has demonstrated his potential in developing large-scale genomic resources for groundnut including genome sequence and developing 58K high density SNP genotyping array. He is known for his leading efforts in making molecular breeding a reality in groundnut.	

Lekha Pazhamala	Dr Pazhamala is a scientist working for the Systems Biology initiative at ICRISAT, Hyderabad under the Genetic Gains Program. At present, her research focuses on studying the role of soil microbiome for sustainable agriculture with reduced environmental degradation. Similarly, she is also involved in studying the role of gut microbiome in alleviating malnutrition/anemia in children and adolescents in Asia.	
Abhishek Rathore	Dr Rathore's current responsibilities at ICRISAT includes Heading the Statistics, Bioinformatics and Data Management Unit, leading a team of statisticians and programmers and providing research and analytical support to scientists, scholars and various research units based at the Headquarters and ICRISAT regional centers in ESA and WCA.	
Manish Roorkiwal	Dr Roorkiwal is Senior Scientist – Genomics and Molecular Breeding, at ICRISAT, Hyderabad, India. At the core of his work is the improvement of crop productivity of legumes in marginal environments in Africa and Asia using modern genetics and breeding approaches, including genomic selection and GWAS.	
Rachit Saxena	Dr Saxena is Senior Scientist - Applied Genomics, Genomics & Trait Discovery, Genetic Gains Program, ICRISAT, Hyderabad, India. He has contributing in development and application of genome, transcriptome, high throughput SNP genotyping, sequencing of data and bioinformatics for crop improvement. Dr Rachit Saxena made significant contribution in developing CMS based pigeonpea hybrids.	

Mamta Sharma	Dr Sharma is Theme Leader, Integrated Crop Management (ICM), Research Program-Asia, at ICRISAT, Hyderabad, India. She is also leading ICRISAT's Center of Excellence on Climate Change Research for Plant Protection.	
Shivali Sharma	Dr Sharma is Theme Leader – Pre-breeding; and Senior Scientist – Genetic Resources, ICRISAT, Hyderabad, India. The major focus of her research is on introgression of genes conferring resistance/tolerance for Ascochyta blight, botrytis grey mold, dry root rot and pod borer in chickpea; Phytophthora blight, pod borer, and salinity in pigeonpea; late leaf spot, stem rot and collar rot in groundnut; and terminal drought, flowering-stage heat and blast resistance in pearl millet.	
Pallavi Sinha	Dr Sinha is working as Associate Scientist, Center of Excellence in Genomics & Systems Biology at ICRISAT. She is having more than 8 years of postdoctoral experience and is currently involved in a next generation sequencing based Epigenomics project to understand the molecular basis of heterosis in pigeonpea and also working on identification of superior haplotype for drought tolerance in pigeonpea	
Rakesh Srivastava	Dr Srivastava is Principal Scientist - Molecular Breeding Genomics & Trait Discovery, Genetic Gains Program, ICRISAT, Hyderabad, India. He has experience in genomics, trait mapping, marker-assisted selection, and plant breeding. Rakesh leads the pearl millet genomics and molecular breeding group at ICRISAT.	

Mahendar Thudi	Dr Thudi, Fellow of Telangana Academy of Sciences, is currently working as Senior Scientist (Chickpea Genomics) at International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, Hyderabad. He has significantly contributed to development of genetic and genomic resources in chickpea and pearl millet.	
Rajeev K Varshney	Dr Varshney is Research Program Director for Genetic Gains, at ICRISAT, Hyderabad, India. He is recognized as a leader in genome sequencing, genomics-assisted breeding, translational genomics & capacity building in international agricultural. Among different noted contributions, he has genome sequence of 10 crops including pigeonpea, chickpea, peanut & pearl millet & several molecular breeding products in chickpea, peanut and pigeonpea to his credit.	



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## Administrative Support



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