Curriculum Vitae

Dr. S. Murali Mohan, MSc, PhD
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Present: Assistant Professor, Dept of Biotechnology, Adikavi Nannaya University, Rajahmahendravaram from 01-08-2017 - till date

Teaching papers: Microbiology, Plant Biotechnology, Plant Biochemistry, Bioinformatics, Omics and Research Methodology

Previous research experience:

- Senior Data Scientist (2014 – 2015): InterpretOmics India Ltd, Bengaluru, India
- Visiting Scientist (2010 – 14): Applied Genomics Lab, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) from Patancheru, Hyderabad
- Senior Research Fellow (2004 – 10): Indian Institute of Millet Research (IIMR), Rajendranagar, Hyderabad
- Junior Research Fellow (2001 – 04): Department of Botany, Andhra University, Visakhapatnam, Andhra Pradesh

Previous teaching experience:

- Lecturer in Biotechnology (2016 – 17): TSR & TBK Degree and PG College, Srinagar, Gajuwaka, Visakhapatnam
- Lecturer in Biotechnology (2002 – 03): Sri Gowri Degree and PG College, Visakhapatnam

Education:

Ph.D (2009) in Botany (Specialization in "Genetics") from Andhra University, Visakhapatnam, Andhra Pradesh

Thesis title: "Localization of QTL for resistance to foliar diseases in sorghum (*Sorghum bicolor* L. Moench)"

M.Sc (2001) in Biotechnology from Andhra University, Visakhapatnam

B.Sc (1998) in Biology from S.L.G.D College, Vizianagaram, Andhra University

Computer knowledge:

Diploma in Information for Systems Management (DISM) from APTECH computer education. Familiar with MS-Word, MS-Excel, Powerpoint, MS-Access and basic programming skills in C, python and R for basic biological research

Administrative experience (if any):

1. Actively participated and worked as “Coordinator” for five day job mela during 12th - 16th December 2017, Adikavi Nannaya University campus, Rajamahendravaram
2. Actively participated and worked as “Coordinator”for one day SC,ST job mela on 05-01-2018, Adikavi Nannaya University campus, Rajamahendravaram

Research Articles:

1. Gaurav Agarwal, **Murali Mohan S**, Vikas K Singh, Mahendar Thudi, Sheelamary S, Pooran M Gaur, Rajeev Varshney (2015) Identification of a non-redundant set of 202 *in silico* SSR markers and applicability of a select set in chickpea (*Cicer arietinum* L.). Euphytica 205:381–394

2. Nagaraja Reddy Rama Reddy, Madhusudhana Ragimasalawada, **Murali Mohan S**, Seetharama Nadoor and Patil JV (2014) Detection and validation of stay-green QTL in post-rainy sorghum involving widely adapted cultivar, M35-1 and a popular stay-green genotype B35. BMC Genomics 15:909

3. Varshney RK, **Murali Mohan S**, Gaur PM, Chamarthi SK, Singh VK et al. (2014) Marker-assisted backcrossing (MABC) to introgress resistance to Fusarium wilt (FW) race 1 and Ascochyta blight (AB) in C 214, an elite cultivar of chickpea. The Plant Genome, 7:1 doi: 10.3835/plantgenome2013.10.0035

4. **Murali Mohan S**, Sharma M, Chamarthi SK, Swapna N, Rathore A, Thudi M, Gaur PM, Pande S, Singh S, Kaur L, Varshney RK (2013) Molecular mapping of QTLs for resistance to Fusarium wilt (race 1) and Ascochyta blight in chickpea (*Cicer arietinum* L.) Euphytica 93:121–133

5. Varshney RK, **Murali Mohan S**, Gaur PM, Gangarao NVPR, Pandey MK, Bohra A, et al. (2013) Achievements and prospects of genomics–assisted breeding in three legume crops of the semi-arid tropics. Biotech Adv 31:1120–1134

6. Nagaraja Reddy R, Madhusudhana R, **Murali Mohan S**, Chakravarthi DVN, Mehtre SP, Seetharama N, Patil JV (2013) Mapping QTL for grain yield and other agronomic traits in post-rainy sorghum [*Sorghum bicolor* (L.) Moench] Theor Appl Genet 126:1921–1939.

7. Varshney RK, Kudapa H, Roorkiwal M, Thudi M, Pandey MK, Saxena R, Chamarthi SK, **Murali Mohan S**, Mallikarjuna N et al. (2012) Advances in genetics and molecular breeding of three legume crops of semi-arid tropics using next-generation sequencing and high-throughput genotyping technologies J. Biosci. 37:811–820.

8. Nagaraja Reddy R, Madhusudhana R, **Murali Mohan S**, Chakravarthi DVN, Seetharama N (2012) Characterization, development and mapping of Unigene-derived microsatellite markers in sorghum [*Sorghum bicolor* (L.) Moench] Mol Breed 29:543–564

9. Usha Sree S, Nagaraja Reddy R, **Murali Mohan S**, Madhusudhana R, Kusum Madhur, Venkatesh Bhat, Sanjay Rathore (2012) Genetic diversity and pathogenic variation in the isolates of Exserohilum turcicum causing leaf blight of sorghum. Indian Phytopath 65:349–355.

10. Nagaraja Reddy R, Madhusudhana R, Prashanthi M, Srinivas G, **Murali Mohan S**, Sateesh K, Seetharama N (2011) Assessment of transferability of sorghum (*Sorghum bicolor*) EST-SSR markers among its wild species and other members of Gramineae family. Indian J. of Agric Sci 81: 1063–1067.

11. **Murali Mohan S**, Madhusudhana R, Mathur K, Sarada Mani N, Chakravarthi DVN, Nagaraja Reddy R et al. (2010) Identification of quantitative trait loci associated with resistance to foliar diseases in sorghum (*Sorghum bicolor* (L.) Moench). Euphytica 176:199–211.

12. **Murali Mohan S**, Madhusudhana R, Kusum Mathur, Howarth CJ, Srinivas G, Satish K, Nagaraja reddy R, Seetharama N (2009) Co-localization of QTLs for foliar disease resistance in sorghum, Plant Breed 124:1–4.

13. Srinivas G, Satish K, Madhusudhana R, Nagaraja Reddy R, **Murali Mohan S**, Seetharama N (2009) Identification of quantitative trait loci for agronomically important traits and their association with genic-microsatellite markers in sorghum Theor Appl Genet 118:1439–1454.

14. Satish K, Srinivas G, Madhusudhana R, Padmaja PG, **Murali Mohan S**, Nagaraja Reddy R, Seetharama N (2009) Identification of quantitative trait loci for resistance to shoot fly in sorghum [*Sorghum bicolor* (L.) Moench]. Theor Appl Genet 119:1425–1439.

15. Srinivas G, Satish K, **Murali Mohan S**, Nagaraja Reddy R, Madhusudhana R, Balakrishna D et al. (2008) Development of genic-microsatellite markers for sorghum staygreen QTLs using a comparative genomic approach with rice. Theor Appl Genet 117:283–296.

16. Madhusudhana R, Padmaja PO, Satish K, **Murali Mohan S**, Srinivas G et al. (2007) Heterosis for shoot fly [*Atherigona soccata* (Rondani)] resistance in sorghum Indian J. Genet. 67: 299-300.

17. Sarada Mani N, **Murali Mohan S**, Sudhakar R. Pola, Dora SVVSN (2003) in vitro morphogenesis in cultivated varieties of sorghum (*Sorghum bicolor* (L.) Moench). Plant cell Biotechnology and Molecular Biology 4:43–48.

18. Sarada Mani N, Dora SVVSN, **Murali Mohan S**, Sudhakar R. Pola (2003) In vitro response of immature inflorescence from hybrids of *Sorghum bicolor* (L.) Moench A.P. Academy of sciences, Visakhapatnam, A.P. India

Workshops & Papers in Conferences:

1) **S. Murali Mohan**, J. Balaji Chandra Mouli, Deva. S. R .S. Prakash and K Ramaneswari Microbial Domestic Sewage Treatment, International Conference on Environmental Biotechnology, Departmnet of Chemical Engineering, 23rd - 25th November, 2017, Andhra University, Visakhapatnam,

2) "High – Throughput Biological Data Analysis", 23rd – 26th February, 2016, Marine Living Resources, Andhra University, Visakhapatnam.

3) Hands-on training in "Statistical Methods for Analyses of Complex Genetic Traits" at Indian Statistical Institute (ISI), Hyderabad. 18th Nov-20th Nov 2015

4) **Murali Mohan S** and Janardhan K (2015) Biostatistical Methods and & Softwares for Applications in Biology. NEOZION, 2K15, September 29-30, 2015, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad

5) 4th International workshop on Next Generation Genomics and Integrated Breeding for Crop Improvement. February 19-21, 2014 ICRISAT, Patancheru, India. Hands–on training in different tools in molecular breeding

6) VI International Conference on Legume Genetics and Genomics October 2-7, 2012, Hyderabad, India

7) **Murali Mohan S**, Swapna N, Chamarthi SK, VinayKumar B and Varshney RK (2011). Marker assisted selection for disease resistance in chickpea (*Cicer arietinum*): In: 15th ADNAT convention symposium on Genomics and Biodiversity, Center for Cellular and Molecular Biology (CCMB), Hyderabad, India, 23 - 25 February, 2011, P-47.

8) Organizing and participation in national workshops (as resource person in a recent workshop on use of R software at AV College from 12th-13th Feb 2016

9) Published paper on "Digital explosion and Digital Disruption – Biotech Industries", National conference 4th and 5th Dec 2015, AV College, GaganMahal, Hyderabad

10) **Murali Mohan S** and Janardhan K (2015) Biostatistical Methods and & Softwares for Applications in Biology. NEOZION, 2K15, September 29-30, 2015, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad

11) 4th International workshop on Next Generation Genomics and Integrated Breeding for Crop Improvement. February 19-21, 2014 ICRISAT, Patancheru, India. Hands-on training in different tools in molecular breeding

12) **Murali Mohan S**, Swapna N, Chamarthi SK, VinayKumar B and Varshney RK (2011). Marker assisted selection for disease resistance in chickpea (Cicer arietinum): In: 15th ADNAT convention symposium on Genomics and Biodiversity, Center for Cellular and Molecular Biology (CCMB), Hyderabad, India, 23 - 25 February, 2011, P-47.

13) **Murali Mohan S**, Sharma M, Nayakoti S, Bairapaka VK, et al. (2012). Detection and/or validation of QTL for resistance to Ascochyta blight and for Fusarium wilt (race 1) in chickpea (Cicer arietinum L.) In: VI International Conference on Legume Genetics & Genomics, Hyderabad Marriott Hotel & Convention Centre, Hyderabad, India, October 2-7, P-225.

14) Hands-on training in "Statistical Methods for Analyses of Complex Genetic Traits" at Indian Statistical Institute (ISI), Hyderabad. 18th Nov-20th Nov 2015