#### Edward S Buckler

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47,478 257 92 217 h-index g-index citations papers 61,276 288 10.7 7.34 L-index avg, IF ext. citations ext. papers

| #   | Paper  | IF                 | Citations |
|-----|--|--------------------|-----------|
| 257 | AnchorWave: Sensitive alignment of genomes with high sequence diversity, extensive structural polymorphism, and whole-genome duplication <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, | 11.5               | 2         |
| 256 | Variation in upstream open reading frames contributes to allelic diversity in maize protein abundance <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2112516119                        | 11.5               | 1         |
| 255 | Ten simple rules to ruin a collaborative environment <i>PLoS Computational Biology</i> , <b>2022</b> , 18, e1009957  | 5                  | O         |
| 254 | A multiple alignment workflow shows the effect of repeat masking and parameter tuning on alignment in plants <i>Plant Genome</i> , <b>2022</b> , e20204  | 4.4                | O         |
| 253 | Genome-wide Imputation Using the Practical Haplotype Graph in the Heterozygous Crop Cassava. <i>G3: Genes, Genomes, Genetics</i> , <b>2021</b> ,   | 3.2                | 1         |
| 252 | Genome-wide analysis of deletions in maize population reveals abundant genetic diversity and functional impact. <i>Theoretical and Applied Genetics</i> , <b>2021</b> , 135, 273   | 6                  | O         |
| 251 | Haplotype associated RNA expression (HARE) improves prediction of complex traits in maize. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009568   | 6                  | O         |
| 250 | Eleven biosynthetic genes explain the majority of natural variation in carotenoid levels in maize grain. <i>Plant Cell</i> , <b>2021</b> , 33, 882-900   | 11.6               | 3         |
| 249 | Joint analysis of days to flowering reveals independent temperate adaptations in maize. <i>Heredity</i> , <b>2021</b> , 126, 929-941   | 3.6                | 1         |
| 248 | Genome-wide association study suggests an independent genetic basis of zinc and cadmium concentrations in fresh sweet corn kernels. <i>G3: Genes, Genomes, Genetics</i> , <b>2021</b> , 11,  | 3.2                | 2         |
| 247 | Conserved noncoding sequences provide insights into regulatory sequence and loss of gene expression in maize. <i>Genome Research</i> , <b>2021</b> ,   | 9.7                | 5         |
| 246 | Underground heterosis for yield improvement in melon. <i>Journal of Experimental Botany</i> , <b>2021</b> , 72, 6205   | - <del>6</del> 218 | 3         |
| 245 | Synthetic promoter designs enabled by a comprehensive analysis of plant core promoters. <i>Nature Plants</i> , <b>2021</b> , 7, 842-855  | 11.5               | 7         |
| 244 | Using high-throughput multiple optical phenotyping to decipher the genetic architecture of maize drought tolerance. <i>Genome Biology</i> , <b>2021</b> , 22, 185  | 18.3               | 9         |
| 243 | Somatic variations led to the selection of acidic and acidless orange cultivars. <i>Nature Plants</i> , <b>2021</b> , 7, 954-965   | 11.5               | 5         |
| 242 | Machine learning-enabled phenotyping for GWAS and TWAS of WUE traits in 869 field-grown sorghum accessions. <i>Plant Physiology</i> , <b>2021</b> , 187, 1481-1500   | 6.6                | 3         |
| 241 | Local adaptation contributes to gene expression divergence in maize. <i>G3: Genes, Genomes, Genetics</i> , <b>2021</b> , 11,   | 3.2                | 1         |

# (2020-2021)

| 240 | Predicting phenotypes from genetic, environment, management, and historical data using CNNs. <i>Theoretical and Applied Genetics</i> , <b>2021</b> , 134, 3997-4011   | 6            | O  |
|-----|---|--------------|----|
| 239 | Phenotyping stomatal closure by thermal imaging for GWAS and TWAS of water use efficiency-related genes. <i>Plant Physiology</i> , <b>2021</b> , 187, 2544-2562   | 6.6          | 3  |
| 238 | RNA polymerase mapping in plants identifies intergenic regulatory elements enriched in causal variants. <i>G3: Genes, Genomes, Genetics</i> , <b>2021</b> , 11,   | 3.2          | 2  |
| 237 | The importance of dominance and genotype-by-environment interactions on grain yield variation in a large-scale public cooperative maize experiment. <i>G3: Genes, Genomes, Genetics</i> , <b>2021</b> , 11, | 3.2          | 12 |
| 236 | Comparative evolutionary genetics of deleterious load in sorghum and maize. <i>Nature Plants</i> , <b>2021</b> , 7, 17-24   | 11.5         | 12 |
| 235 | Domestication reshaped the genetic basis of inbreeding depression in a maize landrace compared to its wild relative, teosinte <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009797                             | 6            | 1  |
| 234 | Building a tRNA thermometer to estimate microbial adaptation to temperature. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 12004-12015  | 20.1         | 2  |
| 233 | Ten Years of the Maize Nested Association Mapping Population: Impact, Limitations, and Future Directions. <i>Plant Cell</i> , <b>2020</b> , 32, 2083-2093   | 11.6         | 33 |
| 232 | The genetic architecture of the maize progenitor, teosinte, and how it was altered during maize domestication. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008791  | 6            | 17 |
| 231 | Natural variation for carotenoids in fresh kernels is controlled by uncommon variants in sweet corn. <i>Plant Genome</i> , <b>2020</b> , 13, e20008   | 4.4          | 17 |
| 230 | Maize genomes to fields (G2F): 2014-2017 field seasons: genotype, phenotype, climatic, soil, and inbred ear image datasets. <i>BMC Research Notes</i> , <b>2020</b> , 13, 71                                | 2.3          | 16 |
| 229 | Deep learning for plant genomics and crop improvement. Current Opinion in Plant Biology, 2020, 54, 34-  | <b>49</b> .9 | 50 |
| 228 | A sorghum practical haplotype graph facilitates genome-wide imputation and cost-effective genomic prediction. <i>Plant Genome</i> , <b>2020</b> , 13, e20009  | 4.4          | 24 |
| 227 | Dominance Effects and Functional Enrichments Improve Prediction of Agronomic Traits in Hybrid Maize. <i>Genetics</i> , <b>2020</b> , 215, 215-230   | 4            | 12 |
| 226 | Relative utility of agronomic, phenological, and morphological traits for assessing genotype-by-environment interaction in maize inbreds. <i>Crop Science</i> , <b>2020</b> , 60, 62-81                     | 2.4          | 7  |
| 225 | Identification of miRNA-eQTLs in maize mature leaf by GWAS. <i>BMC Genomics</i> , <b>2020</b> , 21, 689   | 4.5          | 1  |
| 224 | Reconstructing the maize leaf regulatory network using ChIP-seq data of 104 transcription factors. <i>Nature Communications</i> , <b>2020</b> , 11, 5089  | 17.4         | 34 |
| 223 | Novel Bayesian Networks for Genomic Prediction of Developmental Traits in Biomass Sorghum. <i>G3: Genes, Genomes, Genetics</i> , <b>2020</b> , 10, 769-781  | 3.2          | 10 |

| 222 | Genetic elucidation of interconnected antibiotic pathways mediating maize innate immunity. <i>Nature Plants</i> , <b>2020</b> , 6, 1375-1388  | 11.5  | 23  |
|-----|---|-------|-----|
| 221 | Utility of Climatic Information via Combining Ability Models to Improve Genomic Prediction for Yield Within the Genomes to Fields Maize Project. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 592769                            | 4.5   | 11  |
| 220 | The multi-allelic APRR2 gene is associated with fruit pigment accumulation in melon and watermelon. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 3781-3794   | 7     | 33  |
| 219 | A k-mer grammar analysis to uncover maize regulatory architecture. <i>BMC Plant Biology</i> , <b>2019</b> , 19, 103   | 5.3   | 18  |
| 218 | Evolutionarily informed deep learning methods for predicting relative transcript abundance from DNA sequence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5542-5549 | 11.5  | 56  |
| 217 | The genetic architecture of teosinte catalyzed and constrained maize domestication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5643-5652                           | 11.5  | 34  |
| 216 | Metabolome-Scale Genome-Wide Association Studies Reveal Chemical Diversity and Genetic Control of Maize Specialized Metabolites. <i>Plant Cell</i> , <b>2019</b> , 31, 937-955  | 11.6  | 41  |
| 215 | Transcriptome-Wide Association Supplements Genome-Wide Association in. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 3023-3033   | 3.2   | 28  |
| 214 | Widespread long-range cis-regulatory elements in the maize genome. <i>Nature Plants</i> , <b>2019</b> , 5, 1237-124   | 911.5 | 127 |
| 213 | In-Field Whole-Plant Maize Architecture Characterized by Subcanopy Rovers and Latent Space Phenotyping. <i>The Plant Phenome Journal</i> , <b>2019</b> , 2, 1-11  | 5     | 11  |
| 212 | Multiple genes recruited from hormone pathways partition maize diterpenoid defences. <i>Nature Plants</i> , <b>2019</b> , 5, 1043-1056  | 11.5  | 36  |
| 211 | Breaking the curse of dimensionality to identify causal variants in Breeding 4. <i>Theoretical and Applied Genetics</i> , <b>2019</b> , 132, 559-567  | 6     | 36  |
| 210 | Deleterious Mutation Burden and Its Association with Complex Traits in Sorghum (). <i>Genetics</i> , <b>2019</b> , 211, 1075-1087   | 4     | 27  |
| 209 | Genome-Wide Association and Genomic Prediction Models of Tocochromanols in Fresh Sweet Corn<br>Kernels. <i>Plant Genome</i> , <b>2019</b> , 12, 180038  | 4.4   | 20  |
| 208 | Ethylene signaling regulates natural variation in the abundance of antifungal acetylated diferuloylsucroses and Fusarium graminearum resistance in maize seedling roots. <i>New Phytologist</i> , <b>2019</b> , 221, 2096-2111      | 9.8   | 26  |
| 207 | Diverse Chromosomal Locations of Quantitative Trait Loci for Tolerance to Maize chlorotic mottle virus in Five Maize Populations. <i>Phytopathology</i> , <b>2018</b> , 108, 748-758  | 3.8   | 14  |
| 206 | Construction of the third-generation Zea mays haplotype map. <i>GigaScience</i> , <b>2018</b> , 7, 1-12   | 7.6   | 127 |
| 205 | Increased experimental conditions and marker densities identified more genetic loci associated with southern and northern leaf blight resistance in maize. <i>Scientific Reports</i> , <b>2018</b> , 8, 6848                        | 4.9   | 9   |

# (2017-2018)

| 204 | Dysregulation of expression correlates with rare-allele burden and fitness loss in maize. <i>Nature</i> , <b>2018</b> , 555, 520-523   | 50.4              | 124 |
|-----|--|-------------------|-----|
| 203 | The maize W22 genome provides a foundation for functional genomics and transposon biology.  Nature Genetics, <b>2018</b> , 50, 1282-1288   | 36.3              | 114 |
| 202 | Extensive intraspecific gene order and gene structural variations between Mo17 and other maize genomes. <i>Nature Genetics</i> , <b>2018</b> , 50, 1289-1295   | 36.3              | 201 |
| 201 | Maize Genomes to Fields: 2014 and 2015 field season genotype, phenotype, environment, and inbred ear image datasets. <i>BMC Research Notes</i> , <b>2018</b> , 11, 452                                       | 2.3               | 16  |
| 200 | Quantitative Genetics of the Maize Leaf Microbiome. <i>Phytobiomes Journal</i> , <b>2018</b> , 2, 208-224  | 4.8               | 65  |
| 199 | A Low-Cost Automated System for High-Throughput Phenotyping of Single Oat Seeds. <i>The Plant Phenome Journal</i> , <b>2018</b> , 1, 1-13  | 5                 | 5   |
| 198 | De novo Transcriptome Assemblies Reveal Parallel Gene Evolution with Maize after Ancient Polyploidy. <i>Plant Genome</i> , <b>2018</b> , 11, 180012  | 4.4               | 4   |
| 197 | On the Road to Breeding 4.0: Unraveling the Good, the Bad, and the Boring of Crop Quantitative Genomics. <i>Annual Review of Genetics</i> , <b>2018</b> , 52, 421-444  | 14.5              | 87  |
| 196 | Coregulation of ribosomal RNA with hundreds of genes contributes to phenotypic variation. <i>Genome Research</i> , <b>2018</b> , 28, 1555-1565   | 9.7               | 10  |
| 195 | Expanding the BLUP alphabet for genomic prediction adaptable to the genetic architectures of complex traits. <i>Heredity</i> , <b>2018</b> , 121, 648-662  | 3.6               | 34  |
| 194 | Large-scale replicated field study of maize rhizosphere identifies heritable microbes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 7368-7373 | 11.5              | 230 |
| 193 | A study of allelic diversity underlying flowering-time adaptation in maize landraces. <i>Nature Genetics</i> , <b>2017</b> , 49, 476-480   | 36.3              | 155 |
| 192 | Cassava haplotype map highlights fixation of deleterious mutations during clonal propagation. <i>Nature Genetics</i> , <b>2017</b> , 49, 959-963   | 36.3              | 118 |
| 191 | Rapid Cycling Genomic Selection in a Multiparental Tropical Maize Population. <i>G3: Genes, Genomes, Genetics</i> , <b>2017</b> , 7, 2315-2326   | 3.2               | 47  |
| 190 | Genomic features shaping the landscape of meiotic double-strand-break hotspots in maize.  Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12231-12236            | 6 <sup>11.5</sup> | 59  |
| 189 | Novel Loci Underlie Natural Variation in Vitamin E Levels in Maize Grain. <i>Plant Cell</i> , <b>2017</b> , 29, 2374-2392  | 2 11.6            | 57  |
| 188 | Incomplete dominance of deleterious alleles contributes substantially to trait variation and heterosis in maize. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1007019   | 6                 | 74  |
| 187 | Non-Mendelian Single-Nucleotide Polymorphism Inheritance and Atypical Meiotic Configurations are Prevalent in Hop. <i>Plant Genome</i> , <b>2017</b> , 10, plantgenome2017.04.0032                           | 4.4               | 12  |

| 186 | Pearl millet genome sequence provides a resource to improve agronomic traits in arid environments. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 969-976   | 44.5   | 197 |
|-----|--|--------|-----|
| 185 | Patterns of genomic and phenomic diversity in wine and table grapes. <i>Horticulture Research</i> , <b>2017</b> , 4, 17035   | 7.7    | 40  |
| 184 | Genomic estimation of complex traits reveals ancient maize adaptation to temperate North America. <i>Science</i> , <b>2017</b> , 357, 512-515  | 33.3   | 110 |
| 183 | The effect of artificial selection on phenotypic plasticity in maize. <i>Nature Communications</i> , <b>2017</b> , 8, 1348   | 817.4  | 58  |
| 182 | Maize Genes and Regulate Plant Architecture. <i>Plant Cell</i> , <b>2017</b> , 29, 1622-1641   | 11.6   | 69  |
| 181 | Fast-Flowering Mini-Maize: Seed to Seed in 60 Days. <i>Genetics</i> , <b>2016</b> , 204, 35-42   | 4      | 19  |
| 180 | Draft Assembly of Elite Inbred Line PH207 Provides Insights into Genomic and Transcriptome Diversity in Maize. <i>Plant Cell</i> , <b>2016</b> , 28, 2700-2714   | 11.6   | 139 |
| 179 | Biosynthesis of 8-O-Methylated Benzoxazinoid Defense Compounds in Maize. <i>Plant Cell</i> , <b>2016</b> , 28, 1682  | 2-70.6 | 63  |
| 178 | Joint-linkage mapping and GWAS reveal extensive genetic loci that regulate male inflorescence size in maize. <i>Plant Biotechnology Journal</i> , <b>2016</b> , 14, 1551-62  | 11.6   | 64  |
| 177 | A Proposal Regarding Best Practices for Validating the Identity of Genetic Stocks and the Effects of Genetic Variants. <i>Plant Cell</i> , <b>2016</b> , 28, 606-9   | 11.6   | 25  |
| 176 | Iterative Usage of Fixed and Random Effect Models for Powerful and Efficient Genome-Wide Association Studies. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1005767  | 6      | 469 |
| 175 | Correlation-Based Network Analysis of Metabolite and Enzyme Profiles Reveals a Role of Citrate Biosynthesis in Modulating N and C Metabolism in Zea mays. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1022                | 6.2    | 15  |
| 174 | Identification of genetic variants associated with maize flowering time using an extremely large multi-genetic background population. <i>Plant Journal</i> , <b>2016</b> , 86, 391-402   | 6.9    | 79  |
| 173 | Analysis of recombination QTLs, segregation distortion, and epistasis for fitness in maize multiple populations using ultra-high-density markers. <i>Theoretical and Applied Genetics</i> , <b>2016</b> , 129, 1775-84             | 6      | 9   |
| 172 | Development of a High-Density Linkage Map and Tagging Leaf Spot Resistance in Pearl Millet Using Genotyping-by-Sequencing Markers. <i>Plant Genome</i> , <b>2016</b> , 9, plantgenome2015.10.0106                                  | 4.4    | 18  |
| 171 | Numerous genetic loci identified for drought tolerance in the maize nested association mapping populations. <i>BMC Genomics</i> , <b>2016</b> , 17, 894  | 4.5    | 31  |
| 170 | Genome-wide Association for Plant Height and Flowering Time across 15 Tropical Maize Populations under Managed Drought Stress and Well-Watered Conditions in Sub-Saharan Africa. <i>Crop Science</i> , <b>2016</b> , 56, 2365-2378 | 2.4    | 45  |
| 169 | GAPIT Version 2: An Enhanced Integrated Tool for Genomic Association and Prediction. <i>Plant Genome</i> , <b>2016</b> , 9, plantgenome2015.11.0120  | 4.4    | 198 |

| 168 | Open chromatin reveals the functional maize genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E3177-84                                     | 11.5   | 169              |
|-----|--|--------|------------------|
| 167 | Genome-wide association mapping of provitamin A carotenoid content in cassava. <i>Euphytica</i> , <b>2016</b> , 212, 97-110  | 2.1    | 27               |
| 166 | Characterization of Biosynthetic Pathways for the Production of the Volatile Homoterpenes DMNT and TMTT in Zea mays. <i>Plant Cell</i> , <b>2016</b> , 28, 2651-2665   | 11.6   | 56               |
| 165 | Genetic mapping in grapevine using SNP microarray intensity values. <i>Molecular Breeding</i> , <b>2015</b> , 35, 1  | 3.4    | 14               |
| 164 | Genome-wide association study based on multiple imputation with low-depth sequencing data: application to biofuel traits in reed canarygrass. <i>G3: Genes, Genomes, Genetics</i> , <b>2015</b> , 5, 891-909 | 3.2    | 9                |
| 163 | Genome-environment associations in sorghum landraces predict adaptive traits. <i>Science Advances</i> , <b>2015</b> , 1, e1400218  | 14.3   | 160              |
| 162 | Genomic prediction in biparental tropical maize populations in water-stressed and well-watered environments using low-density and GBS SNPs. <i>Heredity</i> , <b>2015</b> , 114, 291-9                       | 3.6    | 131              |
| 161 | Genome-wide association of carbon and nitrogen metabolism in the maize nested association mapping population. <i>Plant Physiology</i> , <b>2015</b> , 168, 575-83  | 6.6    | 67               |
| 160 | High-resolution genetic mapping of maize pan-genome sequence anchors. <i>Nature Communications</i> , <b>2015</b> , 6, 6914   | 17.4   | 142              |
| 159 | Accumulation of 5-hydroxynorvaline in maize (Zea mays) leaves is induced by insect feeding and abiotic stress. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 593-602                             | 7      | 28               |
| 158 | Recombination in diverse maize is stable, predictable, and associated with genetic load. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3823-8  | 11.5   | 147              |
| 157 | Independent Molecular Basis of Convergent Highland Adaptation in Maize. <i>Genetics</i> , <b>2015</b> , 200, 1297-3  | 12,    | 50               |
| 156 | Construction of high-quality recombination maps with low-coverage genomic sequencing for joint linkage analysis in maize. <i>BMC Biology</i> , <b>2015</b> , 13, 78  | 7-3    | 32               |
| 155 | The Genetic Makeup of a Global Barnyard Millet Germplasm Collection. <i>Plant Genome</i> , <b>2015</b> , 8, eplantg  | едогте | 2 <u>0</u> 4.10. |
| 154 | Population Genetics and Structure of a Global Foxtail Millet Germplasm Collection. <i>Plant Genome</i> , <b>2015</b> , 8, eplantgenome2015.07.0054   | 4.4    | 19               |
| 153 | Genetic control of the leaf angle and leaf orientation value as revealed by ultra-high density maps in three connected maize populations. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121624                       | 3.7    | 52               |
| 152 | Entering the second century of maize quantitative genetics. <i>Heredity</i> , <b>2014</b> , 112, 30-8  | 3.6    | 107              |
| 151 | Insights into the effects of long-term artificial selection on seed size in maize. <i>Genetics</i> , <b>2014</b> , 198, 409-   | 24     | 25               |

| 150                      | A foundation for provitamin A biofortification of maize: genome-wide association and genomic prediction models of carotenoid levels. <i>Genetics</i> , <b>2014</b> , 198, 1699-716  | 4   | 129                             |
|--------------------------|---|---|---------------------------------|
| 149                      | Novel Methods to Optimize Genotypic Imputation for Low-Coverage, Next-Generation Sequence Data in Crop Plants. <i>Plant Genome</i> , <b>2014</b> , 7, plantgenome2014.05.0023   | 4.4   | 184                             |
| 148                      | A SUPER powerful method for genome wide association study. <i>PLoS ONE</i> , <b>2014</b> , 9, e107684   | 3.7   | 109                             |
| 147                      | Accelerating the switchgrass (Panicum virgatum L.) breeding cycle using genomic selection approaches. <i>PLoS ONE</i> , <b>2014</b> , 9, e112227  | 3.7   | 45                              |
| 146                      | A modern ampelography: a genetic basis for leaf shape and venation patterning in grape. <i>Plant Physiology</i> , <b>2014</b> , 164, 259-72   | 6.6   | 110                             |
| 145                      | Association mapping across numerous traits reveals patterns of functional variation in maize. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004845   | 6   | 133                             |
| 144                      | TASSEL-GBS: a high capacity genotyping by sequencing analysis pipeline. <i>PLoS ONE</i> , <b>2014</b> , 9, e90346   | 3.7   | 994                             |
| 143                      | Genome-wide association study of Fusarium ear rot disease in the U.S.A. maize inbred line collection. <i>BMC Plant Biology</i> , <b>2014</b> , 14, 372  | 5.3   | 62                              |
| 142                      | Enrichment of statistical power for genome-wide association studies. <i>BMC Biology</i> , <b>2014</b> , 12, 73  | 7.3   | 60                              |
|                          |   |   |                                 |
| 141                      | The genetic architecture of maize height. <i>Genetics</i> , <b>2014</b> , 196, 1337-56  | 4   | 211                             |
| 141                      | The genetic architecture of maize height. <i>Genetics</i> , <b>2014</b> , 196, 1337-56  Comprehensive genotyping of the USA national maize inbred seed bank. <i>Genome Biology</i> , <b>2013</b> , 14, R55  |   | 337                             |
|                          |   | 5 18.3                                      |                                 |
| 140                      | Comprehensive genotyping of the USA national maize inbred seed bank. <i>Genome Biology</i> , <b>2013</b> , 14, R55  Mining conifers[mega-genome using rapid and efficient multiplexed high-throughput   | 5 18.3                                      | 337                             |
| 140                      | Comprehensive genotyping of the USA national maize inbred seed bank. <i>Genome Biology</i> , <b>2013</b> , 14, R55 Mining conifers[mega-genome using rapid and efficient multiplexed high-throughput genotyping-by-sequencing (GBS) SNP discovery platform. <i>Tree Genetics and Genomes</i> , <b>2013</b> , 9, 1537-154 Diversity and heritability of the maize rhizosphere microbiome under field conditions. <i>Proceedings</i>  | 5 18.3<br>44 <sup>2.1</sup>                 | 337<br>45                       |
| 140<br>139<br>138        | Comprehensive genotyping of the USA national maize inbred seed bank. <i>Genome Biology</i> , <b>2013</b> , 14, R55 Mining conifersImega-genome using rapid and efficient multiplexed high-throughput genotyping-by-sequencing (GBS) SNP discovery platform. <i>Tree Genetics and Genomes</i> , <b>2013</b> , 9, 1537-156 Diversity and heritability of the maize rhizosphere microbiome under field conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6548-53   | 5 18.3<br>44 <sup>2.1</sup>                 | 337<br>45<br>1067               |
| 140<br>139<br>138        | Comprehensive genotyping of the USA national maize inbred seed bank. <i>Genome Biology</i> , <b>2013</b> , 14, R55.  Mining conifersImega-genome using rapid and efficient multiplexed high-throughput genotyping-by-sequencing (GBS) SNP discovery platform. <i>Tree Genetics and Genomes</i> , <b>2013</b> , 9, 1537-154.  Diversity and heritability of the maize rhizosphere microbiome under field conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6548-53.  Agriculture: Feeding the future. <i>Nature</i> , <b>2013</b> , 499, 23-4.  Population genomic and genome-wide association studies of agroclimatic traits in sorghum.  | 5 18.3<br>44 <sup>2.1</sup><br>11.5         | 337<br>45<br>1067<br>363        |
| 140<br>139<br>138<br>137 | Comprehensive genotyping of the USA national maize inbred seed bank. <i>Genome Biology</i> , <b>2013</b> , 14, R55.  Mining conifers[mega-genome using rapid and efficient multiplexed high-throughput genotyping-by-sequencing (GBS) SNP discovery platform. <i>Tree Genetics and Genomes</i> , <b>2013</b> , 9, 1537-156.  Diversity and heritability of the maize rhizosphere microbiome under field conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6548-53  Agriculture: Feeding the future. <i>Nature</i> , <b>2013</b> , 499, 23-4  Population genomic and genome-wide association studies of agroclimatic traits in sorghum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 453-8  Switchgrass genomic diversity, ploidy, and evolution: novel insights from a network-based SNP | 5 18.3<br>44 <sup>2.1</sup><br>11.5<br>50.4 | 337<br>45<br>1067<br>363<br>556 |

# (2011-2013)

| 132 | Dissecting genome-wide association signals for loss-of-function phenotypes in sorghum flavonoid pigmentation traits. <i>G3: Genes, Genomes, Genetics</i> , <b>2013</b> , 3, 2085-94                                      | 3.2   | 45   |
|-----|--|---|------|
| 131 | Natural variation in maize aphid resistance is associated with 2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one glucoside methyltransferase activity. <i>Plant Cell</i> , <b>2013</b> , 25, 2341-55                          | 11.6  | 171  |
| 130 | Aluminum tolerance in maize is associated with higher MATE1 gene copy number. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5241-6                         | 11.5  | 199  |
| 129 | Genetic Analysis of Visually Scored Orange Kernel Color in Maize. <i>Crop Science</i> , <b>2013</b> , 53, 189-200  | 2.4   | 49   |
| 128 | The genetic architecture of maize stalk strength. PLoS ONE, 2013, 8, e67066  | 3.7   | 81   |
| 127 | Vitis phylogenomics: hybridization intensities from a SNP array outperform genotype calls. <i>PLoS ONE</i> , <b>2013</b> , 8, e78680   | 3.7   | 36   |
| 126 | Genomics assisted ancestry deconvolution in grape. <i>PLoS ONE</i> , <b>2013</b> , 8, e80791   | 3.7   | 25   |
| 125 | Can genomics boost productivity of orphan crops?. <i>Nature Biotechnology</i> , <b>2012</b> , 30, 1172-6   | 44.5  | 192  |
| 124 | GAPIT: genome association and prediction integrated tool. <i>Bioinformatics</i> , <b>2012</b> , 28, 2397-9   | 7.2   | 1135 |
| 123 | Genetic architecture of maize kernel composition in the nested association mapping and inbred association panels. <i>Plant Physiology</i> , <b>2012</b> , 158, 824-34  | 6.6   | 242  |
| 122 | Maize HapMap2 identifies extant variation from a genome in flux. <i>Nature Genetics</i> , <b>2012</b> , 44, 803-7  | 36.3  | 470  |
| 121 | SNP discovery with EST and NextGen sequencing in switchgrass (Panicum virgatum L.). <i>PLoS ONE</i> , <b>2012</b> , 7, e44112  | 3.7   | 16   |
| 120 | PICARA, an analytical pipeline providing probabilistic inference about a priori candidates genes underlying genome-wide association QTL in plants. <i>PLoS ONE</i> , <b>2012</b> , 7, e46596                             | 3.7   | 20   |
| 119 | Comparative population genomics of maize domestication and improvement. <i>Nature Genetics</i> , <b>2012</b> , 44, 808-11  | 36.3  | 600  |
| 118 | ZmCCT and the genetic basis of day-length adaptation underlying the postdomestication spread of maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E191. | 3 <sup>-1</sup> 2 <sup>1</sup> 1 <sup>5</sup> | 226  |
| 117 | The relationship between parental genetic or phenotypic divergence and progeny variation in the maize nested association mapping population. <i>Heredity</i> , <b>2012</b> , 108, 490-9                                  | 3.6   | 96   |
| 116 | Genic and nongenic contributions to natural variation of quantitative traits in maize. <i>Genome Research</i> , <b>2012</b> , 22, 2436-44  | 9.7   | 96   |
| 115 | Crop genomics: advances and applications. <i>Nature Reviews Genetics</i> , <b>2011</b> , 13, 85-96   | 30.1  | 362  |

| 114 | Genetic structure and domestication history of the grape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 3530-5   | 11.5                | 468  |
|-----|--|---------------------|------|
| 113 | Genome-wide nested association mapping of quantitative resistance to northern leaf blight in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 6893   | -8 <sup>11.5</sup>  | 288  |
| 112 | Joint QTL linkage mapping for multiple-cross mating design sharing one common parent. <i>PLoS ONE</i> , <b>2011</b> , 6, e17573  | 3.7                 | 82   |
| 111 | Genome-wide association study of leaf architecture in the maize nested association mapping population. <i>Nature Genetics</i> , <b>2011</b> , 43, 159-62   | 36.3                | 746  |
| 110 | Genome-wide association study of quantitative resistance to southern leaf blight in the maize nested association mapping population. <i>Nature Genetics</i> , <b>2011</b> , 43, 163-8                                  | 36.3                | 444  |
| 109 | Population genetics of genomics-based crop improvement methods. <i>Trends in Genetics</i> , <b>2011</b> , 27, 98-10  | <b>)6</b> 8.5       | 181  |
| 108 | A robust, simple genotyping-by-sequencing (GBS) approach for high diversity species. <i>PLoS ONE</i> , <b>2011</b> , 6, e19379   | 3.7                 | 3791 |
| 107 | Distinct genetic architectures for male and female inflorescence traits of maize. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002383   | 6                   | 175  |
| 106 | Genetic association mapping identifies single nucleotide polymorphisms in genes that affect abscisic acid levels in maize floral tissues during drought. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 701 | -76                 | 96   |
| 105 | A large maize (Zea mays L.) SNP genotyping array: development and germplasm genotyping, and genetic mapping to compare with the B73 reference genome. <i>PLoS ONE</i> , <b>2011</b> , 6, e28334                        | 3.7                 | 422  |
| 104 | Mixed linear model approach adapted for genome-wide association studies. <i>Nature Genetics</i> , <b>2010</b> , 42, 355-60   | 36.3                | 1259 |
| 103 | Rare genetic variation at Zea mays crtRB1 increases beta-carotene in maize grain. <i>Nature Genetics</i> , <b>2010</b> , 42, 322-7   | 36.3                | 349  |
| 102 | Genome-wide association studies of 14 agronomic traits in rice landraces. <i>Nature Genetics</i> , <b>2010</b> , 42, 96  | 1 <del>3</del> 75.3 | 1414 |
| 101 | The Gramene Genetic Diversity Module: a resource for genotype-phenotype association analysis in grass species. <i>Nature Precedings</i> , <b>2010</b> ,  |                     | 2    |
| 100 | Rapid genomic characterization of the genus vitis. <i>PLoS ONE</i> , <b>2010</b> , 5, e8219  | 3.7                 | 166  |
| 99  | Association and linkage analysis of aluminum tolerance genes in maize. <i>PLoS ONE</i> , <b>2010</b> , 5, e9958  | 3.7                 | 75   |
| 98  | Genetic analysis of central carbon metabolism unveils an amino acid substitution that alters maize NAD-dependent isocitrate dehydrogenase activity. <i>PLoS ONE</i> , <b>2010</b> , 5, e9991                           | 3.7                 | 24   |
| 97  | Genome-size Variation in Switchgrass (Panicum virgatum): Flow Cytometry and Cytology Reveal Rampant Aneuploidy. <i>Plant Genome</i> , <b>2010</b> , 3,   | 4.4                 | 69   |

#### (2008-2010)

| 96 | Agriculture. Increased food and ecosystem security via perennial grains. <i>Science</i> , <b>2010</b> , 328, 1638-9   | 33.3 | 303  |
|----|---|------|------|
| 95 | Fine quantitative trait loci mapping of carbon and nitrogen metabolism enzyme activities and seedling biomass in the maize IBM mapping population. <i>Plant Physiology</i> , <b>2010</b> , 154, 1753-65                             | 6.6  | 52   |
| 94 | Perennial Questions of Hydrology and ClimateResponse. <i>Science</i> , <b>2010</b> , 330, 33-34   | 33.3 | 1    |
| 93 | Heterosis is prevalent for multiple traits in diverse maize germplasm. <i>PLoS ONE</i> , <b>2009</b> , 4, e7433   | 3.7  | 116  |
| 92 | Association mapping: critical considerations shift from genotyping to experimental design. <i>Plant Cell</i> , <b>2009</b> , 21, 2194-202   | 11.6 | 601  |
| 91 | Tracking footprints of maize domestication and evidence for a massive selective sweep on chromosome 10. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106 Suppl 1, 9979-86 | 11.5 | 106  |
| 90 | Software engineering the mixed model for genome-wide association studies on large samples. <i>Briefings in Bioinformatics</i> , <b>2009</b> , 10, 664-75  | 13.4 | 50   |
| 89 | Genetic characterization and linkage disequilibrium estimation of a global maize collection using SNP markers. <i>PLoS ONE</i> , <b>2009</b> , 4, e8451   | 3.7  | 288  |
| 88 | Discovery and mapping of single feature polymorphisms in wheat using Affymetrix arrays. <i>BMC Genomics</i> , <b>2009</b> , 10, 251   | 4.5  | 34   |
| 87 | Natural variation in maize architecture is mediated by allelic differences at the PINOID co-ortholog barren inflorescence2. <i>Plant Journal</i> , <b>2009</b> , 58, 618-28   | 6.9  | 27   |
| 86 | A first-generation haplotype map of maize. <i>Science</i> , <b>2009</b> , 326, 1115-7   | 33.3 | 613  |
| 85 | Applications of Linkage Disequilibrium and Association Mapping in Maize. <i>Biotechnology in Agriculture and Forestry</i> , <b>2009</b> , 173-195   |      | 35   |
| 84 | Genetic properties of the maize nested association mapping population. Science, 2009, 325, 737-40   | 33.3 | 775  |
| 83 | The genetic architecture of maize flowering time. <i>Science</i> , <b>2009</b> , 325, 714-8   | 33.3 | 1043 |
| 82 | Simulation Appraisal of the Adequacy of Number of Background Markers for Relationship Estimation in Association Mapping. <i>Plant Genome</i> , <b>2009</b> , 2,   | 4.4  | 62   |
| 81 | Large-Scale Discovery of Gene-Enriched SNPs. <i>Plant Genome</i> , <b>2009</b> , 2,   | 4.4  | 48   |
| 80 | Genetic design and statistical power of nested association mapping in maize. <i>Genetics</i> , <b>2008</b> , 178, 539-  | 514  | 753  |
| 79 | Status and Prospects of Association Mapping in Plants. <i>Plant Genome</i> , <b>2008</b> , 1,   | 4.4  | 818  |

| 78 | Comparison of mixed-model approaches for association mapping. <i>Genetics</i> , <b>2008</b> , 178, 1745-54  | 4    | 199  |
|----|---|------|------|
| 77 | Natural genetic variation in lycopene epsilon cyclase tapped for maize biofortification. <i>Science</i> , <b>2008</b> , 319, 330-3  | 33.3 | 571  |
| 76 | The genetic architecture of complex traits in teosinte (Zea mays ssp. parviglumis): new evidence from association mapping. <i>Genetics</i> , <b>2008</b> , 180, 1221-32                 | 4    | 66   |
| 75 | Gramene: a growing plant comparative genomics resource. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, D947-53   | 20.1 | 130  |
| 74 | Panzea: an update on new content and features. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, D1041-3  | 20.1 | 23   |
| 73 | Empirical comparison of Simple Sequence Repeats and single nucleotide polymorphisms in assessment of maize diversity and relatedness. <i>PLoS ONE</i> , <b>2007</b> , 2, e1367          | 3.7  | 176  |
| 72 | Technical note: Use of marker-based relationships with multiple-trait derivative-free restricted maximal likelihood. <i>Journal of Animal Science</i> , <b>2007</b> , 85, 881-5         | 0.7  | 34   |
| 71 | Evaluation of Target Preparation Methods for Single-Feature Polymorphism Detection in Large Complex Plant Genomes. <i>Crop Science</i> , <b>2007</b> , 47, S-135                        | 2.4  | 32   |
| 70 | Using crossover breakpoints in recombinant inbred lines to identify quantitative trait loci controlling the global recombination frequency. <i>Genetics</i> , <b>2007</b> , 177, 1851-8 | 4    | 47   |
| 69 | TASSEL: software for association mapping of complex traits in diverse samples. <i>Bioinformatics</i> , <b>2007</b> , 23, 2633-5   | 7.2  | 4013 |
| 68 | Power to detect higher-order epistatic interactions in a metabolic pathway using a new mapping strategy. <i>Genetics</i> , <b>2007</b> , 176, 563-70                                    | 4    | 41   |
| 67 | Applications of Linkage Disequilibrium and Association Mapping in Crop Plants <b>2007</b> , 97-119  |      | 75   |
| 66 | Molecular and functional diversity of maize. Current Opinion in Plant Biology, 2006, 9, 172-6   | 9.9  | 168  |
| 65 | Panzea: a database and resource for molecular and functional diversity in the maize genome. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, D752-7                                    | 20.1 | 74   |
| 64 | Recurrent Mutation and Genome Evolution: Example of Sugary1 and the Origin of Sweet Maize. <i>Crop Science</i> , <b>2006</b> , 46, S-49   | 2.4  | 30   |
| 63 | 4. Maize Origins, Domestication, and Selection <b>2006</b> , 67-90  |      | 14   |
| 62 | Genetic diversity contribution to errors in short oligonucleotide microarray analysis. <i>Plant Biotechnology Journal</i> , <b>2006</b> , 4, 489-98                                     | 11.6 | 25   |
| 61 | A unified mixed-model method for association mapping that accounts for multiple levels of relatedness. <i>Nature Genetics</i> , <b>2006</b> , 38, 203-8                                 | 36.3 | 2595 |

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| 60 | Genetic association mapping and genome organization of maize. <i>Current Opinion in Biotechnology</i> , <b>2006</b> , 17, 155-60  | 11.4 | 659  |
|----|---|------|------|
| 59 | Gramene: a bird's eye view of cereal genomes. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, D717-23   | 20.1 | 162  |
| 58 | Genetic and Biochemical Analysis of Iron Bioavailability in Maize. FASEB Journal, 2006, 20, A623  | 0.9  | 2    |
| 57 | Maize association population: a high-resolution platform for quantitative trait locus dissection. <i>Plant Journal</i> , <b>2005</b> , 44, 1054-64  | 6.9  | 633  |
| 56 | Architecture of floral branch systems in maize and related grasses. <i>Nature</i> , <b>2005</b> , 436, 1119-26  | 50.4 | 253  |
| 55 | Association analysis of candidate genes for maysin and chlorogenic acid accumulation in maize silks. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 110, 1324-33                         | 6    | 117  |
| 54 | Genetic diversity and population structure of teosinte. <i>Genetics</i> , <b>2005</b> , 169, 2241-54  | 4    | 130  |
| 53 | GDPC: connecting researchers with multiple integrated data sources. <i>Bioinformatics</i> , <b>2004</b> , 20, 2839-40   | 7.2  | 8    |
| 52 | The Collaborative Cross, a community resource for the genetic analysis of complex traits. <i>Nature Genetics</i> , <b>2004</b> , 36, 1133-7   | 36.3 | 822  |
| 51 | Dissection of maize kernel composition and starch production by candidate gene association. <i>Plant Cell</i> , <b>2004</b> , 16, 2719-33   | 11.6 | 259  |
| 50 | Early allelic selection in maize as revealed by ancient DNA. <i>Science</i> , <b>2003</b> , 302, 1206-8   | 33.3 | 224  |
| 49 | Using natural allelic diversity to evaluate gene function. <i>Methods in Molecular Biology</i> , <b>2003</b> , 236, 123-40  | 01.4 | 55   |
| 48 | Development of a maize molecular evolutionary genomic database. <i>Comparative and Functional Genomics</i> , <b>2003</b> , 4, 246-9   |      | 3    |
| 47 | Structure of linkage disequilibrium in plants. Annual Review of Plant Biology, 2003, 54, 357-74   | 30.7 | 1125 |
| 46 | Plant molecular diversity and applications to genomics. Current Opinion in Plant Biology, 2002, 5, 107-11   | 9.9  | 279  |
| 45 | Quantitative trait loci analysis of growth response to varying nitrogen sources in Arabidopsis thaliana. <i>Theoretical and Applied Genetics</i> , <b>2002</b> , 104, 743-750                     | 6    | 75   |
| 44 | Genetic diversity and selection in the maize starch pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 12959-62                  | 11.5 | 252  |
| 43 | A single domestication for maize shown by multilocus microsatellite genotyping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 6080-4 | 11.5 | 860  |

| 42 | Dwarf8 polymorphisms associate with variation in flowering time. <i>Nature Genetics</i> , <b>2001</b> , 28, 286-9  | 36.3          | 871 |
|----|--|---------------|-----|
| 41 | Structure of linkage disequilibrium and phenotypic associations in the maize genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 11479-84 | 11.5          | 854 |
| 40 | Molecular diversity, structure and domestication of grasses. <i>Genetical Research</i> , <b>2001</b> , 77, 213-8   | 1.1           | 197 |
| 39 | Genetic Evidence and the Origin of Maize. Latin American Antiquity, 2001, 12, 84-86  | 0.5           | 34  |
| 38 | Patterns of molecular evolution among paralogous floral homeotic genes. <i>Molecular Biology and Evolution</i> , <b>1999</b> , 16, 1037-45   | 8.3           | 26  |
| 37 | Molecular evolution of type 1 serine/threonine protein phosphatases. <i>Molecular Phylogenetics and Evolution</i> , <b>1999</b> , 12, 57-66  | 4.1           | 46  |
| 36 | Meiotic drive of chromosomal knobs reshaped the maize genome. <i>Genetics</i> , <b>1999</b> , 153, 415-26  | 4             | 126 |
| 35 | Climate, Plant Ecology, and Central Mexican Archaic Subsistence. Current Anthropology, 1998, 39, 152-1   | 1 <b>62</b> 1 | 23  |
| 34 | The evolution of ribosomal DNA: divergent paralogues and phylogenetic implications. <i>Genetics</i> , <b>1997</b> , 145, 821-32  | 4             | 357 |
| 33 | Zea ribosomal repeat evolution and substitution patterns. <i>Molecular Biology and Evolution</i> , <b>1996</b> , 13, 623-32  | 8.3           | 86  |
| 32 | Zea systematics: ribosomal ITS evidence. <i>Molecular Biology and Evolution</i> , <b>1996</b> , 13, 612-22   | 8.3           | 157 |
| 31 | A Hierarchical View of Genetic Structure in the Rare Annual Plant Clarkia springvillensis. <i>Conservation Biology</i> , <b>1996</b> , 10, 1425-1434   | 6             | 16  |
| 30 | The transcription regulatory code of a plant leaf  |               | 1   |
| 29 | Tripsacum de novo transcriptome assemblies reveal parallel gene evolution with maize after ancient polyploidy  |               | 3   |
| 28 | Quantitative Genetic Analysis of the Maize Leaf Microbiome   |               | 3   |
| 27 | Genetic elucidation of complex biochemical traits mediating maize innate immunity  |               | 1   |
| 26 | rTASSEL: an R interface to TASSEL for association mapping of complex traits  |               | 1   |
| 25 | Independent molecular basis of convergent highland adaptation in maize   |               | 3   |

| 24 | Construction of the third generation Zea mays haplotype map  | 19 |
|----|--|----|
| 23 | Non-Mendelian inheritance of SNP markers reveals extensive chromosomal translocations in dioecious hops (Humulus lupulus L.) | 2  |
| 22 | Cassava HapMap: Masking deleterious mutations in a clonal crop species   | 2  |
| 21 | A Large Scale Joint Analysis of Flowering Time Reveals Independent Temperate Adaptations in Maize                            | 2  |
| 20 | Incomplete Dominance of Deleterious Alleles Contributes Substantially to Trait Variation and Heterosis in Maize              | 2  |
| 19 | rAmpSeq: Using repetitive sequences for robust genotyping  | 26 |
| 18 | Genetic Analysis of Lodging in Diverse Maize Hybrids   | 4  |
| 17 | Constrained non-coding sequence provides insights into regulatory elements and loss of gene expression in maize              | 5  |
| 16 | Eleven biosynthetic genes explain the majority of natural variation for carotenoid levels in maize grain                     | 2  |
| 15 | A Maize Practical Haplotype Graph Leverages Diverse NAM Assemblies   | 6  |
| 14 | Machine learning enabled phenotyping for GWAS and TWAS of WUE traits in 869 field-grown sorghum accessions                   | 1  |
| 13 | k-mer grammar uncovers maize regulatory architecture   | 2  |
| 12 | Leveraging mutational burden for complex trait prediction in sorghum   | 3  |
| 11 | Transcriptome-wide association supplements genome-wide association in Zea mays   | 3  |
| 10 | Evolutionarily informed deep learning methods: Predicting transcript abundance from DNA sequence                             | 4  |
| 9  | RNA polymerase mapping in plants identifies enhancers enriched in causal variants  | 4  |
| 8  | Single-gene resolution of locally adaptive genetic variation in Mexican maize  | 13 |
| 7  | In-field whole plant maize architecture characterized by Latent Space Phenotyping  | 3  |

| 6 | Comparative evolutionary analysis and prediction of deleterious mutation patterns between sorghum and maize                               | 1 |
|---|---|---|
| 5 | Identifying the diamond in the rough: a study of allelic diversity underlying flowering time adaptation in maize landraces                | 1 |
| 4 | A multiple genome alignment workflow shows the impact of repeat masking and parameter tuning on alignment of functional regions in plants | 1 |
| 3 | Synthetic Promoter Designs Enabled by a Comprehensive Analysis of Plant Core Promoters  | 1 |
| 2 | Teosinte introgression modulates phosphatidylcholine levels and induces early maize flowering time  | 3 |
| 1 | AnchorWave: sensitive alignment of genomes with high diversity, structural polymorphism and whole-genome duplication variation            | 1 |