Supplementary Material

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Table S1. Number of genes of different transcriptional factors families reported in major crops to date

|  |  |  |  |
| --- | --- | --- | --- |
| **Transcriptional Factor** | **Crop** | **Number of genes** | **Reference** |
| **WRKY** | *Arabidopsis thailana* | 74 | [[1](#_ENREF_1)] |
|  | *Triticum aestivum* | 107 | [[2](#_ENREF_2)] |
|  | *Oryza sativa* | 103 | [[1](#_ENREF_1)] |
|  | *Zea mays* | 119 | [[3](#_ENREF_3)] |
|  | *Sorghum bicolor* | 68 | [[1](#_ENREF_1)] |
|  | *Saccharum spontanum* | 154 | [[4](#_ENREF_4)] |
|  | *Gossypium hirsutum* | 116 | [[5](#_ENREF_5)] |
|  | *Brassica napus* | 287 | [[6](#_ENREF_6)] |
|  | *Glycine max* | 197 | [[1](#_ENREF_1)] |
| **MYB** | *Arabidopsis thailana* | 145 | [[7](#_ENREF_7)] |
|  | *Oryza sativa* | 155 | [[7](#_ENREF_7)] |
|  | *Zea mays* | 72 | [[7](#_ENREF_7)] |
|  | *Glycine max* | 25 | [[7](#_ENREF_7)] |
|  | *Gossypium raimondii* | 205 | [[8](#_ENREF_8)] |
|  | *Solanum lycopersicum* | 127 | [[9](#_ENREF_9)] |
| **DREB** | *Arabidopsis thaliana* | 56 | [[10](#_ENREF_10)] |
|  | *Triticum aestivum* | 62 | [[11](#_ENREF_11)] |
|  | *Oryza sativa* | 57 | [[12](#_ENREF_12)] |
|  | *Zea mays* | 292 | [[13](#_ENREF_13)] |
|  | *Sorghum bicolor* | 6 | [[14](#_ENREF_14)] |
|  | *Gossypium raimondii* | 269 | [[15](#_ENREF_15)] |
| **bZIP** | *Arabidopsis thailana* | 67 | [[16](#_ENREF_16)] |
|  | *Triticum aestivum* | 187 | [[16](#_ENREF_16)] |
|  | *Oryza sativa* | 89 | [[16](#_ENREF_16)] |
|  | *Zea mays* | 125 | [[17](#_ENREF_17)] |
|  | *Sorghum bicolor* | 92 | [[16](#_ENREF_16)] |
|  | *Glycine max* | 131 | [[17](#_ENREF_17)] |
|  | *Solanum lycopersicum* | 69 | [[18](#_ENREF_18)] |
| **HSF** | *Arabidopsis thaliana* | 21 | [[19](#_ENREF_19)] |
|  | *Triticum aestivum* | 56 | [[20](#_ENREF_20)] |
|  | *Oryza sativa* | 25 | [[19](#_ENREF_19)] |
|  | *Zea mays* | 30 | [[19](#_ENREF_19)] |
|  | *Glycine max* | 52 | [[19](#_ENREF_19)] |
|  | *Sorghum bicolor* | 39 | [[21](#_ENREF_21)] |
|  | *Gossypium hirsutum* | 40 | [[22](#_ENREF_22)] |
| **NAC** | *Arabidopsis thaliana* | 105 | [[23](#_ENREF_23)] |
|  | *Triticum aestivum* | 488 | [[24](#_ENREF_24)] |
|  | *Triticum durum* | 168 | [[25](#_ENREF_25)] |
|  | *Oryza sativa* | 151 | [[23](#_ENREF_23)] |
|  | *Zea mays* | 157 | [[26](#_ENREF_26)] |
|  | *Sorghum bicolor* | 145 | [[27](#_ENREF_27)] |
|  | *Glycine max* | 152 | [[28](#_ENREF_28)] |
| **DoF** | *Arabidopsis thaliana* | 36 | [[29](#_ENREF_29)] |
|  | *Triticum aestivum* | 31 | [[30](#_ENREF_30)] |
|  | *Oryza sativa* | 30 | [[29](#_ENREF_29)] |
|  | *Zea mays* | 54 | [[31](#_ENREF_31)] |
|  | *Sorghum bicolor* | 28 | [[32](#_ENREF_32)] |
|  | *Glycine max* | 78 | [[33](#_ENREF_33)] |
|  | *Brassica rapa* | 76 | [[29](#_ENREF_29)] |
| **Zinc finger** | *Arabidopsis thailana* | 176 | [[34](#_ENREF_34)] |
|  | *Triticum turgidum* | 129 | [[35](#_ENREF_35)] |
|  | *Oryza sativa* | 189 | [[34](#_ENREF_34)] |
|  | *Zea mays* | 211 | [[34](#_ENREF_34)] |
|  | *Sorghum bicolor* | 122 | [[36](#_ENREF_36)] |
|  | *Brassica rapa* | 301 | [[37](#_ENREF_37)] |
|  | *Glycin max* | 321 | [[38](#_ENREF_38)] |
|  | *Nicotiana tabacum* | 188 | [[39](#_ENREF_39)] |
| **NF-Y** | *Arabidopsis thaliana* | 36 | [[40](#_ENREF_40)] |
|  | *Triticum aestivum* | 37 | [[41](#_ENREF_41)] |
|  | *Oryza sativa* | 28 | [[40](#_ENREF_40)] |
|  | *Zea mays* | 50 | [[42](#_ENREF_42)] |
|  | *Sorghum bicolor* | 42 | [[43](#_ENREF_43)] |
|  | *Hordeum vulgare* | 23 | [[44](#_ENREF_44)] |
|  | *Glycine max* | 68 | [[40](#_ENREF_40)] |

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