**SUPPLEMENTARY MATERIALS**

**SUPPLEMENTARY FIGURES**



**Figure S 1 Pie chart showing screening results of *Oryza nivara* during 2015**



**Figure S 2 Variation in disease variables among *Oryza nivara* accessions (a) lesion height (cm) (b) relative lesion height (%) and (c) disease score during 2016 and 2017**

**SUPPLEMENTARY TABLES**

**Table S 1: Different statistical parameters of *Oryza nivara* accessions screening against sheath blight disease variables during 2015**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Statistical Parameters | Mean Plant Height (cm) | Mean Lesion Height (cm) | Mean Relative Lesion Height (%) | Disease Score |
| Mean | 118.38 | 53.22 | 47.52 | 5.7 |
| Minimum | 44 | 21 | 18.84 | 1 |
| Maximum | 171 | 99 | 97.67 | 9 |
| Standard Deviation | 24.99 | 18.94 | 21 | 2.1 |
| Standard Error | 1.74 | 1.32 | 1.47 | 0.15 |
| LSD(C.D.) 5% | 9.64 | 12.78 | 12.89 | 1.48 |

**Table S 2. Range and means of different disease variables in *Oryza nivara* accessions during the year 2015**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GroupName | AccessionNumber | MeanPH | Range ofPH | MeanLH | Rangeof LH | MeanRLH | Rangeof RLH | DS | Rangeof DS |
| M1 | 12 | 112.06 | 80.33-144.67 | 58.92 | 40.67-81.33 | 53.01 | 45.17-69.89 | 7.33 | 7-9 |
| M2 | 16 | 128.33 | 100-166.67 | 34.56 | 22.67-45.33 | 26.92 | 22.15-29.81 | 3 | 3-3 |
| M3 | 21 | 134.20 | 105.67-170 | 50.28 | 43.67-66.33 | 37.66 | 32.54-44.68 | 5 | 5-5 |
| M4 | 18 | 94.75 | 45-131 | 70.48 | 39.67-97 | 74.84 | 58.71-90.14 | 8.2 | 7-9 |

(PH=Plant Height, LH= Lesion Height, RLH= Relative Lesion Height, DS= Disease Score)

 **Table S 3. Analysis of variance for effects of *Oryza nivara* genotypes on different disease variables of rice sheath blight**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Disease variables | **Effect** | **Df** | **F ratio** | **P>F\*** | **LSD** |
| Plant Height | Exp | 1 | 71.56 | <.0001 | 7.76 |
| Genotypes | 16 | 55.86 | <.0001 | 11.40 |
| Exp x Genotypes | 16 | 5.44 | <.0001 | 18.34 |
| Lesion Height | Exp | 1 | 1.08 | 0.3016 | (NS) |
| Genotypes | 16 | 24.40 | <.0001 | 6.51 |
| Exp x Genotypes | 16 | 2.10 | 0.0185 | 11.51 |
| Relative Lesion Height | Exp | 1 | 18.20 | <.0001 | 3.89 |
| Genotypes | 16 | 38.61 | <.0001 | 5.37 |
| Exp x Genotypes | 16 | 2.55 | 0.0040 | 9.58 |
| Disease score | Exp | 1 | 23.80 | <.0001 | 0.54 |
| Genotypes | 16 | 24.97 | <.0001 | 0.92 |
| Exp x Genotypes | 16 | 3.34 | 0.0003 | 2.89 |

 \*Significant at 5% level of confidence, NS=Non significant

**Table S 4. Pearson correlation coefficients among the different disease variables of rice sheath blight disease reaction**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Disease variables | Plant Height(cm) | Lesion Height(cm) | Relative Lesion Height (%) | Disease score |
| Plant Height(cm) | 1 | 0.23 | -0.28 | -0.24 |
| Lesion Height(cm) |  | 1 | 0.86 | 0.81 |
| Relative Lesion Height (%) |  |  | 1 | 0.93 |
| Disease score |  |  |  | 1 |