Confirmatory Detection and Identification of Biotic and Abiotic Stresses in Wheat Using Raman Spectroscopy

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| Normalized peak intensities at the most prominent vibrational bands |
|  | 748 cm-1 | 1002cm-1 | 1155cm-1 | 1185cm-1 | 1217cm-1 | 1285cm-1 | 1326cm-1 | 1525cm-1 | 1602cm-1 |
| Healthy | 0.073 | 0.082 | 0.229 | 0.122 | 0.069 | 0.036 | 0.070 | 0.306 | 0.028 |
| Drought | 0.065 | 0.074 | 0.222 | 0.113 | 0.061 | 0.034 | 0.064 | 0.302 | 0.027 |
| WSMV+TriMV | 0.062 | 0.071 | 0.196 | 0.102 | 0.058 | 0.033 | 0.065 | 0.279 | 0.029 |
| Nitrogen | 0.047 | 0.045 | 0.128 | 0.060 | 0.031 | 0.024 | 0.042 | 0.185 | 0.045 |
| Aphid | 0.042 | 0.060 | 0.177 | 0.050 | 0.023 | 0.026 | 0.034 | 0.284 | 0.035 |

**Supplementary Information**

**Table S1. Normalized peak intensities at the most prominent vibrational bands**

**748**

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**1002**

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**1155**

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**1185**

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**1217**

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**1285**





**1326**

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**1525**

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**1602**

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Figure S1. ANOVA of intensity of different vibrational bands in the acquired Raman spectra.