Supplementary Table 4 Control (entire leaf) sampling dates and labeling for metabolomics of leaves in India

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| **Harvest time**  | **Date** | **Sample labeling** | **Leaf number and grouping** |
| First harvest (leaves 1-2) | Feb. 9th | CMP1R1- I (1-10 plants in plot 1)CMP1R2- I (11-20 plants in plot 1)CMP1R3- I (61-70 plants in plot 2) | I: 1-2 leaves3 biological samples each year |
| Second harvest (leaves 3-5) | Feb. 16th | CMP2R1- II (1-10 plants in plot 1)CMP2R2- II (11-20 plants in plot 1)CMP2R3- II (61-70 plants in plot 2) | II: 3-5 leaves3 biological samples each year |
| Third harvest (leaves 6-8) | Feb. 23rd | CMP3R1- III (1-10 plants in plot 1)CMP3R2- III (11-20 plants in plot 1)CMP3R3- III (61-70 plants in plot 2) | III: 6-8 leaves3 biological samples each year |
| Forth harvest (leaves 9-11) | March 2nd | CMP4R1- IV (1-10 plants in plot 1)CMP4R2- IV (11-20 plants in plot 1)CMP4R3- IV (61-70 plants in plot 2) | IV: 9-11 leaves3 biological samples each year |
| Fifth harvest (leaves 12-14) | March. 9th | CMP5R1- I (1-10 plants in plot 1)CMP5R2- I (11-20 plants in plot 1)CMP5R3- I (61-70 plants in plot 2) | V: 12-14 leaves3 biological samples each year |
| Sixth harvest (leaves 15-17) | March. 16th | CMP6R1- VI (1-10 plants in plot 1)CMP6R2- VI (11-20 plants in plot 1)CMP6R3- VI (61-70 plants in plot 2) | VI: 15-17 leaves3 biological samples each year |
| Seventh harvest (leaves 18-20) | March. 23rd | CMP7R1- VII (1-10 plants in plot 1)CMP7R2- VII (11-20 plants in plot 1)CMP7R3- VII (61-70 plants in plot 2) | VII: 18-20 leaves3 biological samples each year |
| Eighth harvest (leaves 21-22) | March. 31st | CMP8R1- VIII (1-10 plants in plot 1)CMP8R2- VIII (11-20 plants in plot 1)CMP8R3- VIII (61-70 plants in plot 2) | VIII: 21-22 leaves3 biological samples each year |

CMP1R1-I: control metabolomics pick #1 replicate-1-I group.