Supplementary File 1: Calculations of the minimum amount of IP transferred by a single mirid in clip-cage experiment and estimation of the number of feeding mirids required to transfer the measured amount of IP in the whole-plant experiment

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| --- | --- | --- | --- | --- |
|  | | | | |
| After 120 h continuous feeding | **Clip cage experiment** | | **Whole-plant experiment** | |
| **Transferred**  **[15N5]-IP/IPR:**  **fmol / g FM leaf** | **fmol IP/mirid** | **Transferred**  **[14N5]-IP/IPR: fmol / g FM leaf** | **estimated number of mirids on one leaf:** |
|
| IP | 2.35 | 0.117 | 15.6 | 133 |
| IPR | 34.9 | 1.742 | 135.4 | 78 |

Clip cage experiment: 20 15N labeled mirids feeding on single leaves of 14N-grownplants for 5 days.

Whole-plant experiment: 15N-grown plants exposed to the feeding of an unknown number of 14N labeled mirids.

FM: fresh mass.