Insecticide Assay 0-10mM

* Insecticides – thiacloprid, acetamiprid, imidacloprid, clothianidin and flupyradifurone.
* 0, 0+solvent, 2, 4, 6, 8, 10mM. This means 2% DMSO.
* 10 replicates for each concentration above for each insecticide.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 0 | 2 | 4 | 6 | 8 | 10 |
| control |  |  |  |  |  |  |
| control+solvent |  | ref |  |  |  |  |
| thiacloprid |  |  |  |  |  |  |
| acetamiprid |  |  |  |  |  |  |
| imidacloprid |  |  |  |  |  |  |
| clothianidin |  |  |  |  |  |  |
| flupyradifurone |  |  |  |  |  |  |

* Compare interaction between control+solvent (no insecticide) and concentration (no interaction) to interaction between insecticide and concentration (potential interaction).
* Also allows me to compare control to control+solvent.
* The insecticide 0mM observations are the same as control+solvent.
* If I only had control+solvent as part of insecticide (as the 0mM concentration) it raises two issues: wouldn’t be able to compare control to control+solvent and wouldn’t be able to compare the interaction of concentration and insecticide (insecticide) to the interaction of concentration and control+solvent (no insecticide).
* Control (no solvent) won’t be looked at regarding interaction with concentration. Still preferable to have same number of replicates for control and control+solvent to enable comparison.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Treatment>  Day | Control | Control + S | Imi | Acet | Thia | Cloth | Flu | Blank |
| 1 | Row 1 | 3 | 5 | 8 | 7 | 6 | 2 | 4 |
| 2 | 8 |  |  | 7 |  |  |  |  |
| 3 | 5 |  |  | 3 |  |  |  |  |
| 4 | 4 |  |  | 1 |  |  |  |  |
| 5 | 7 |  |  | 2 |  |  |  |  |