Summary of: Phosphoinositide-signaling is one component of a robust plant defense response

Key findings:

- 1. InsP5-ptase plants have greatly reduced basal InsP3 levels, constitutively expressing the human type I inositol polyphosphate 5-phosphatase.
- 2. InsP5-ptase plants are more sensitive to flagellin (FLg22) treatment, showing delayed and reduced responses to gravity, salt, cold, and wounding.
- 3. InsP5-ptase plants are less resistant to Pseudomonas syringae pv. tomato (Pst DC3000) infections, showing higher bacterial loads and reduced SAR.
- 4. InsP5-ptase plants have lower basal SA levels and delayed SAR induction in systemic leaves.
- 5. InsP5-ptase plants have reduced basal expression of defense-related genes, including PR-1, PR-2, PR-5, and AIG1.
- 6. InsP5-ptase plants have delayed induction of PR-1 gene expression in systemic leaves.
- 7. InsP5-ptase plants have reduced basal expression of some defense-related genes, including CRT3, BiP3, and PR-2.
- 8. InsP5-ptase plants have reduced basal SA levels and delayed SA induction in systemic leaves.
- 9. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 10. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 11. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 12. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 13. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 14. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 15. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 16. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 17. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 18. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
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- 20. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
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- 27. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 28. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 29. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 30. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 31. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 32. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 33. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3, and BiP3.
- 34. InsP5-ptase plants have reduced basal expression of PR-1, PR-5, CRT3,