Supplementary Table S1: Overall model F-test and significance tests for post-hoc contrasts comparing different groups of means in experiment 1, comparing different plant extracts to synthetic fungicide and untreated infected controls, and using plant extracts as seed coating, foliar spray, and combined seed coating +spray treatments.

	F Value	p-value
Overall ANOVA model for treatment	4.01	p< 0.0001
Contrasts for comparing treatment groups	**Mean yield (g/plant)**	**p-value**
All plant extract treatments vs. Untreated *Fusarium* control	2.92 vs. 1.70	p = 0.002 **
All plant extract treatments vs. Synthetic fungicide control	2.92 vs. 2.48	p = 0.065
T.vogelii vs. other plant treatments	3.37 vs. 2.82	p = 0.025*
Seed coating vs. seed coating +spray and spray	3.76 vs. 2.49	p< 0.0001***
Spray vs seed coating and seed coating +spray	3.01 vs. 2.72	p =0.11 NS

Supplementary Table S2: Analysis of variance showing interaction between pesticidal plant treatment and mode of application (seed coating, seed coating and foliar spray and only foliar spray) on yield of bean plants infested with bean fly

Source	DF	Sum of squares	Mean squares	F	Pr > F	p-values signification codes
Treatment	6.000	0.528	0.088	1.639	0.144	∞
Application type	2.000	0.954	0.477	8.886	**0.000**	***
Treatment*Application type	12.000	0.404	0.034	0.627	0.815	∞

Supplementary Table S3: Overall significance tests for post-hoc contrasts comparing different groups of means in experiment 4, comparing different high-rate of compost to lower compost rate, DAP, *T. minuta* and synthetic fungicide treatments.

	Oviposition rate		Yield (g/plant)	
	F Value	p-value	F Value	p-value
Overall ANOVA model for treatment	7.672	p< 0.0001	4.168	p = 0.002
Contrasts for comparing treatment groups	**Evaluation (ovi-punctures/ pot)**	**p-value**	**Evaluation (g/plant)**	**p-value**
T. minuta vs. positive control	0.1 vs. 14.6	0.001 ***	3.28 vs. 2.1	NS
120 g compost treatments vs. positive control	6.4 vs. 14.6	NS	3.46 vs. 2.1	0.049 *
30 g compost treatments vs. positive control	24.1 vs. 14.6	NS	1.85 vs. 2.1	NS
30 g compost treatments, with DAP only also, vs. positive control	27.3 vs. 14.6	NS	1.86 vs. 2.1	NS
tagetes vs. negative control	0.1 vs. 30.3	0.0001 ***	3.28 vs. 1.2	0.003 **
120 g compost treatments vs. negative control	6.4 vs. 30.3	0.001 ***	3.46 vs. 1.2	0.0003 ***
30 g compost treatments vs. negative control	24.1 vs. 30.3	NS	1.85 vs. 1.2	NS
30 g compost treatments, with DAP only also, vs. negative control	27.3 vs. 30.3	NS	1.86 vs. 1.2	NS
120 compost treatments vs. 30 g compost and DAP alone	6.4 vs. 27.3	<0.0001 ***	3.46 vs. 1.9	0.001 **
120 g compost treatments vs. 30 g compost treatments	6.4 vs. 24.1	0.001 **	3.46 vs. 1.8	0.002 **