

Bulletin of Insectology Supplemental Material**Title: Toxicity assessment on honey bee larvae of a repeated exposition of a systemic fungicide, boscalid**Authors: **Noa SIMON-DELISO, Gilles SAN MARTIN, Etienne BRUNEAU, Louis HAUTIER, Piotr MEDRZYCKI**

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Table S1. Temperature and relative humidity conditions during the test.**Table S2.** Composition of the different diets components used during the experiment.**Table S3.** Amount of pesticide active ingredient, diet administered to each larva per treatment and day and wells with remaining food on eighth day (D8).**Figure S1.** Photos of well-plates control and solution 1 (40.25 µg/larva) at D8 and D15.**Table S1.** Temperature and relative humidity conditions during the test.

Days of the test	Temperature °C (s.d.)	RH % (s.d.)
D1-D8	34.34 (0.28)	96.29 (2.75)
D8-D15	34.42 (0.17)	81.43 (9.39)
D15-D22	34.19 (0.33)	59.94 (13.38)

Temperature and HR followed the recommendations of the OECD Guidelines

Table S2. Composition of the different diets components used during the experiment.

Diet	Royal jelly g	Yest extract g	Aqueous solution		Total weight g	Diet weight g
			Glucose g	Fructose g		
A	9.00	2.00	12.02	12.03	9.09	18.09
B	10.00	1.50	7.51	7.52	10.00	20.00
C	27.83	2.00	9.01	9.10	27.83	55.66

Table S3. Amount of pesticide active ingredient, diet administered to each larva per treatment and day and wells with remaining food on eighth day (D8). Total amount of diet per larva = 140 µL.

Treatments	Amount of a.i. in diet (µg)				Total a.i. consumed µg/larva	Wells with remaining food on D8 (/total wells)
	D3 (20 µl diet)	D4 (30 µl diet)	D5 (40 µl diet)	D6 (50 µl diet)		
Water control	0	0	0	0	0	0/44
Acetone control	0	0	0	0	0	0/40
Solution 1 (boscalid)	5.75	8.625	11.5	14.375	40.25	0/40
Solution 2 (boscalid)	0.575	0.863	1.15	1.438	4.025	0/36
Solution 3 (boscalid)	0.058	0.086	0.115	0.144	0.403	1/40
Solution 4 (boscalid)	0.006	0.009	0.012	0.014	0.04	1/40
Toxic standard (dimethoate)	1.082	1.623	2.164	2.705	7.574	40/40

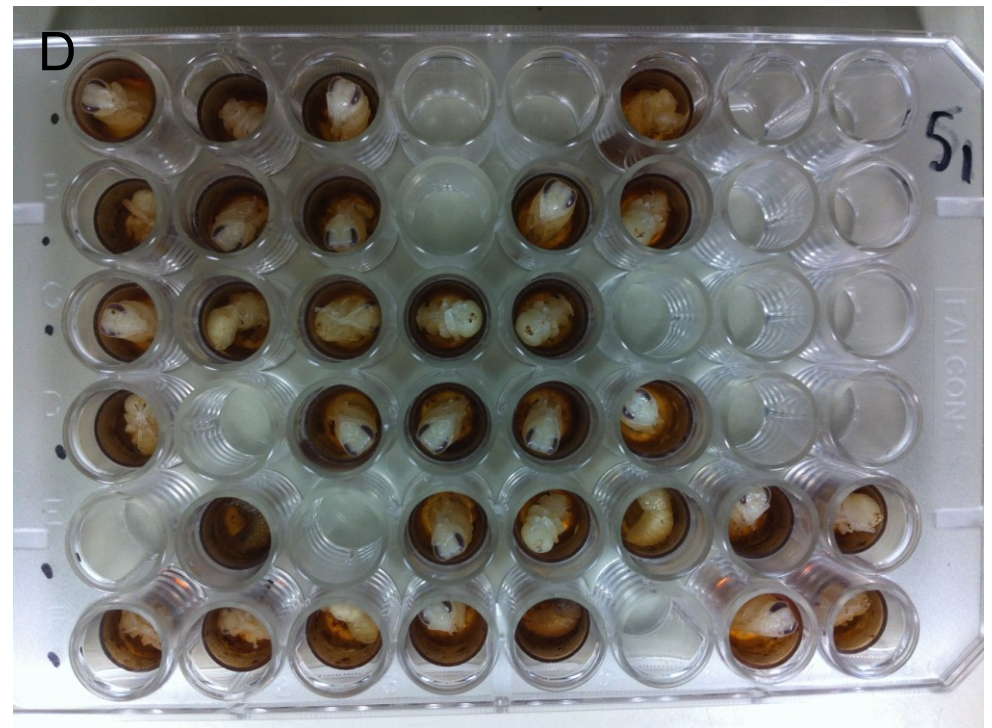
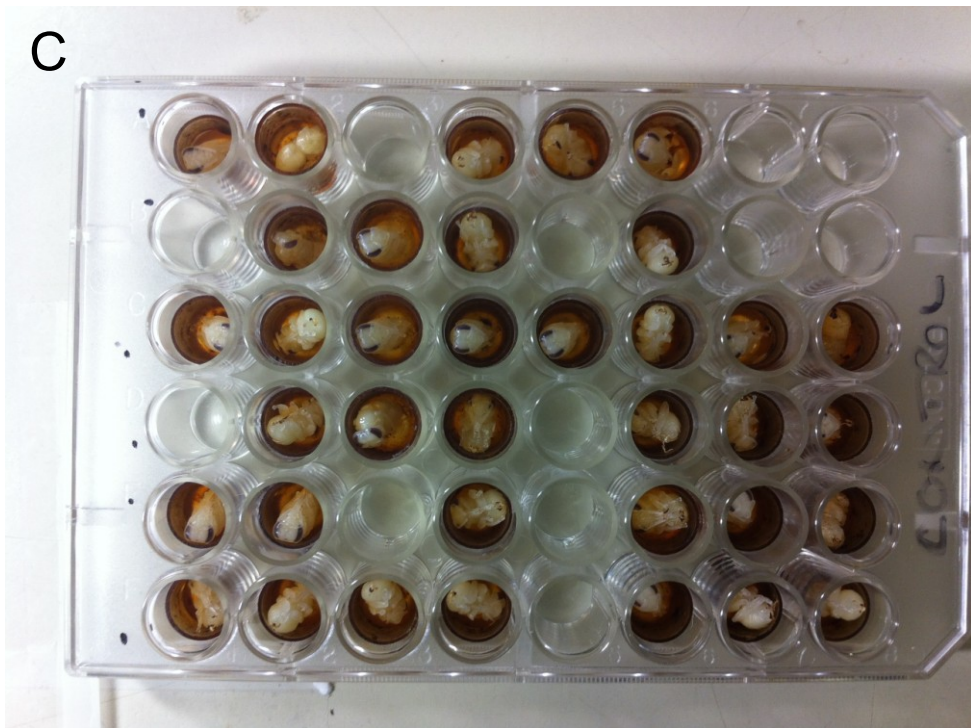
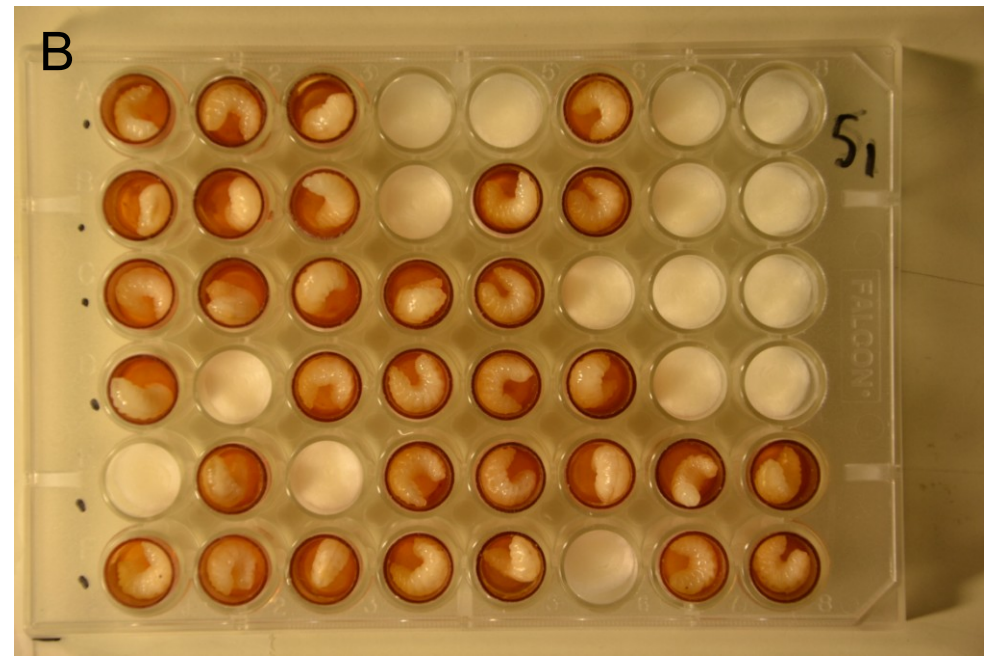
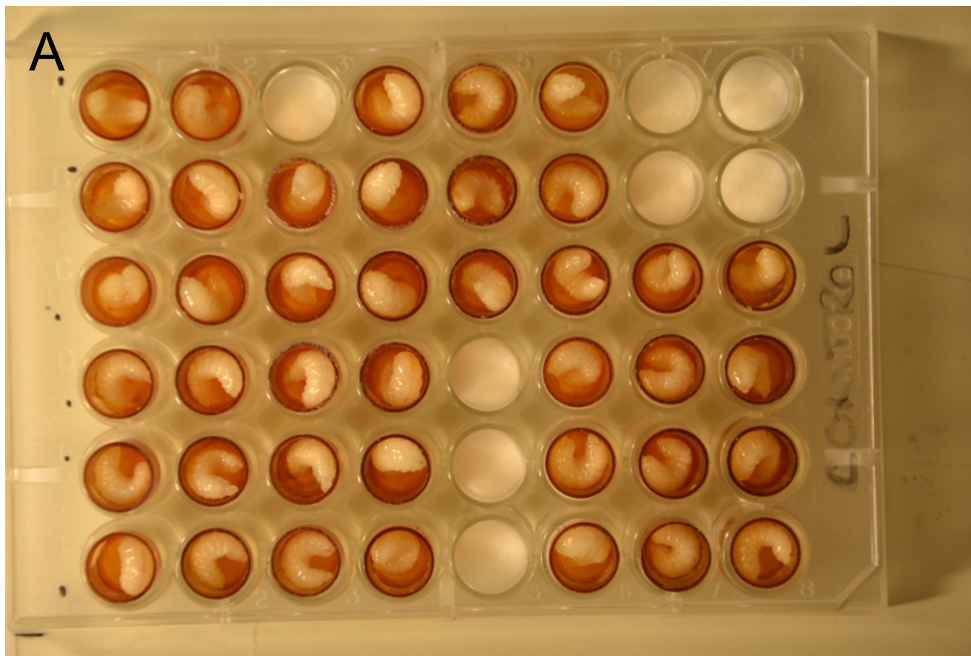


Figure S1. Photos of well-plates control and solution 1 (40.25 $\mu\text{g}/\text{larva}$) at D8 and D15. **A)** control at D8; **B)** solution 1 at D8; **C)** control at D15; **D)** solution 1 at D15.