Table S1. Statistics and sample size for data shown in Figs 1–5

Experiment 1:

Figure	n (workers)				Nested ANOVA for "treatment"	Nested ANOVA for "rank" nested in "treatment"
	Untreated control	1.2 mg	3 mg	6 mg		
Figure 1a (ovaries)	57	9	36	15	F _{3, 105} =67.7, p<0.001; post-hoc: p<0.02 for Un. and 1.2 mg vs. 3 and 6 mg	F _{8,105} =10.4, p<0.001; post hoc p<0.02 for Un. and 1.2 mg vs. 3 and 6 mg
Figure 1b (JH)	18	-	18	-	F _{1,30} =6.6, p=0.015 for Un. vs. 3mg	F _{4,30} =1.4, p=0.25 for Un. vs. 3mg
Figure 1b (MF)	18	-	18	-	F _{1, 30} =0.46, p=0.5 for Un. vs. 3mg	F _{4,30} =0.96, p=0.43 for Un. vs. 3mg

Experiment 2:

Figure		n (workers)		Nested ANOVA for "treatment"	Nested ANOVA for "rank" nested in "treatment"
	Untreated control	Precocene	DMF	JH		
Figure 2 (ovaries)	36	36	42	33	F _{1,66} =7.72, p=0.007 for Un. Vs. Prec. F _{1,69} =7.5, p=0.007 for DMF vs. JH	$F_{4,66}$ =15.78, p<0.001; post hoc: NS for same ranks in different treatments $F_{4,69}$ =8.47, p<0.001; post hoc: NS for same ranks in different treatments
Figure 3 (aggression)	36	42	42	33	F _{1,72} =14.23, p<0.001 for Un. vs. Prec. F _{1,69} =4.65, p=0.03 for DMF vs. JH	$F_{4,72}$ =23.2, p<0.001; post hoc: p<0.001 for Un./1 st vs. all other groups $F_{4,69}$ =6.01, p<0.001; post hoc: p<0.003 for JH/1 st vs. all groups but JH/2 nd and DMF/1 st
Total secretion (no figure)	33	33	30	24	F _{1,60} =1.91, p=0.17 for Un. vs. Prec. F _{1,48} =0.59, p=0.44 for DMF vs. JH	F _{4,69} =1.3, p=0.28 for Un. vs. Prec. F _{4,48} =0.5, p=0.73 for DMF vs. JH
Figure 4 (esters)	33	33	30	24	F _{1,60} =4.21, p=0.04 for Un. vs. Prec. F _{1,48} =0.37, p=0.54 for DMF vs. JH	$F_{4,60}$ =2.93, p=0.02;post hoc: p=0.02 for γ/Prec. vs. all groups but α/Un. and α/Prec. $F_{4,48}$ =2.51, p=0.05 for DMF vs. JH; post hoc: p>0.05 for all groups
Figure 5 (JH)	13	11	14	12	F _{1,18} =4.84, p=0.04 for Un. vs. Prec. F _{1,20} =9.73, p=0.005 for DMF vs. JH	$F_{4,18}$ =1.03, p=0.41 for Un. vs. Prec. $F_{4,20}$ =3.09, p=0.03; post hoc: p<0.05 for α worker vs. all other groups
Figure 5 (MF)	13	11	14	12	F _{1,18} =3.53, p=0.076 for Un. vs. Prec. F _{1,20} =0.86, p=0.36 for DMF vs. JH	F _{4,18} =1.04, p=0.41 for Un. vs. Prec. F _{4,20} =0.09, p=0.98 for DMF vs. JH