



Figures A and B : Single cell RT-PCR analysis using different PCR conditions. We performed different PCR conditions (10, 15, 25, 30 and 35 cycles). No significant amplification was found at 10 cycles except for actin (Figure A). At 30 and 35 cycles, the signals were saturated and we were not able to identify all expression level. The best PCR amplifications were between 15 and 25 cycles (Figure B).

NC = Nervous chain; MB = Mushroom Body; AL = Antennal Lobe; OL = Optical lobe

Table 1 summarizes statistical analyses using one-way ANOVA and Bonferroni post-hoc test Data were analyzed using image J software. Pamea7 expression level in each sample was normalized with the corresponding actin expression level.

15 cycles

Bonferroni's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Below threshold?	Summary	Adjusted P Value
NC vs. MB	-2,295	-54,56 to 49,97	No	ns	>0,9999
NC vs. AL	-2,115	-54,38 to 50,15	No	ns	>0,9999
NC vs. OL	-1,295	-53,56 to 50,97	No	ns	>0,9999
MB vs. AL	0,1800	-60,17 to 60,53	No	ns	>0,9999
MB vs. OL	1,000	-59,35 to 61,35	No	ns	>0,9999
AL vs. OL	0,8200	-59,53 to 61,17	No	ns	>0,9999
20 cycles					
NC vs. MB	-1,144	-1,527 to -0,7609	Yes	****	<0,0001
NC vs. AL	-0,09280	-0,4758 to 0,2902	2 No	ns	>0,9999
NC vs. OL	-0,5947	-1,001 to -0,1885	5 Yes	**	0,0028
MB vs. AL	1,051	0,6681 to 1,434	Yes	****	<0,0001
MB vs. OL	0,5492	0,1430 to 0,9554	¥ Yes	**	0,0056
AL vs. OL	-0,5019	-0,9081 to -0,09570) Yes	*	0,0115
25 cycles					
		-0,8283 to			
NC vs. MB	-0,4430	0,05766	6 Yes	*	0,0209
NC vs. AL	-0,02530	-0,4106 to 0,3600) No	ns	>0,9999
NC vs. OL	-0,2280	-0,6133 to 0,1573	8 No	ns	0,5205
MB vs. AL	0,4177	0,03236 to 0,8030) Yes	*	0,0306
MB vs. OL	0,2150	-0,1703 to 0,6003	B No	ns	0,6241
AL vs. OL	-0,2027	-0,5880 to 0,1826	6 No	ns	0,7387

C.	a.	α7	b. α7/Ric-3
		Nic 1 mM	Nic 1 mM
	cRNA injection	an a	ารางอาสารสุดสุดไป เป็นหนึ่งได้ เป็นหนึ่งไปได้ เป็นหนึ่งไปได้ เราะังการในกับการเหตุ

Figure C illustrates oocytes injected with cRNA. As shown, oocytes injected with Pame α 7 cRNA (a) or co-injection of Pame α 7 cRNA and RIC-3 (b) are not able to produce nicotine currents. Similar results were found when we used 10 mM nicotine. In each condition, we tested n = 20 oocytes.

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Figure D illustrates the effect of MLA on not injected oocytes As found, 10 μ M MLA was not able to reduce current induced by 10 mM nicotine on not injected oocytes. Each histogram illustrates mean \pm S.EM of n = 5 oocytes. NS = no significant, p > 0.05 using one-way ANOVA and Bonferroni post-hoc test.