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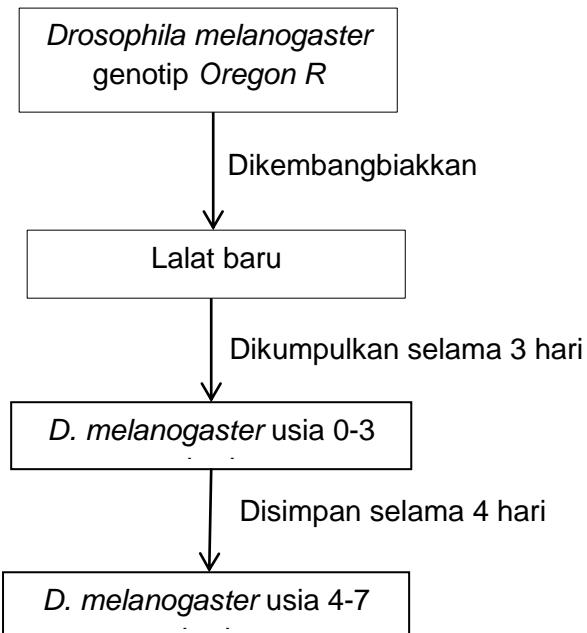
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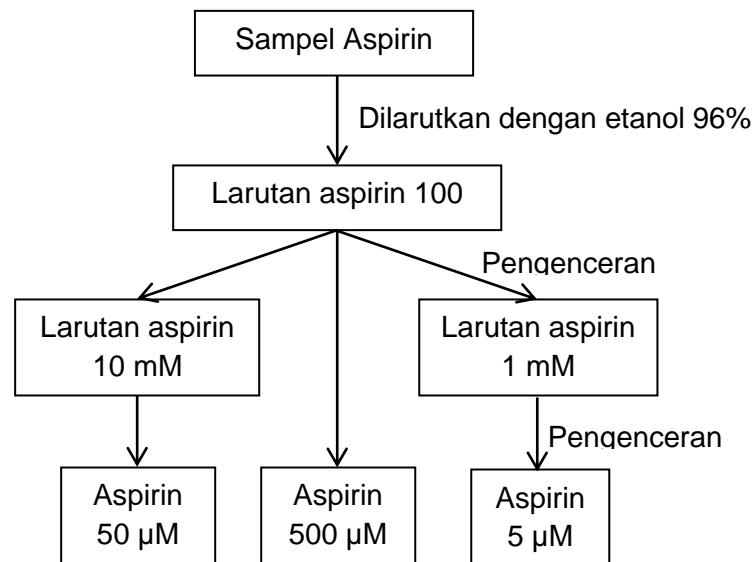
## LAMPIRAN

### Lampiran 1. Skema Kerja Penelitian

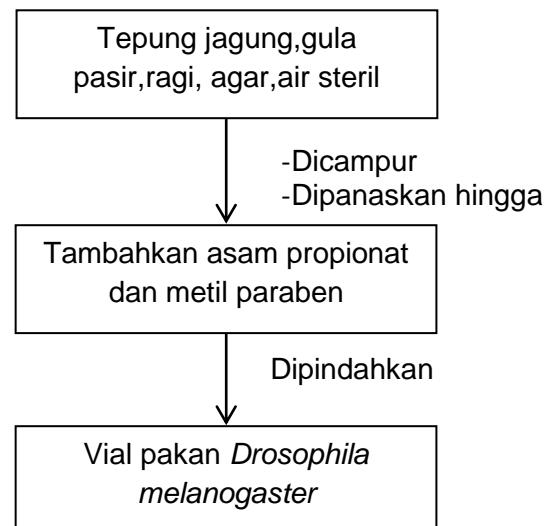
#### Lampiran 1.1 Penyiapan hewan uji



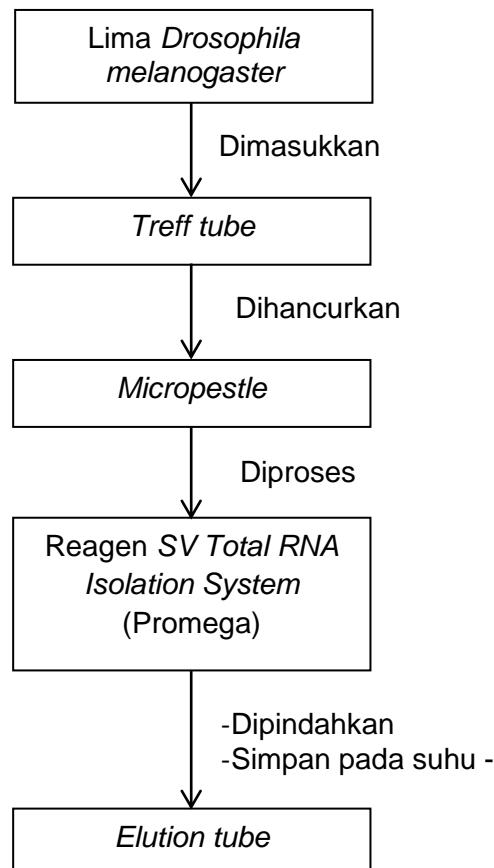
#### Lampiran 1.2 Penyiapan sampel



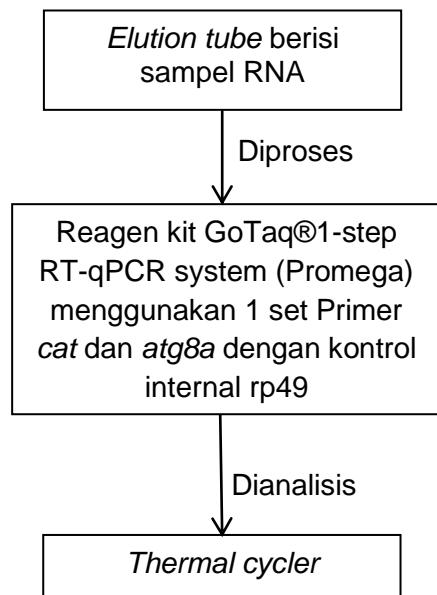
### Lampiran 1.3 Penyiapan pakan



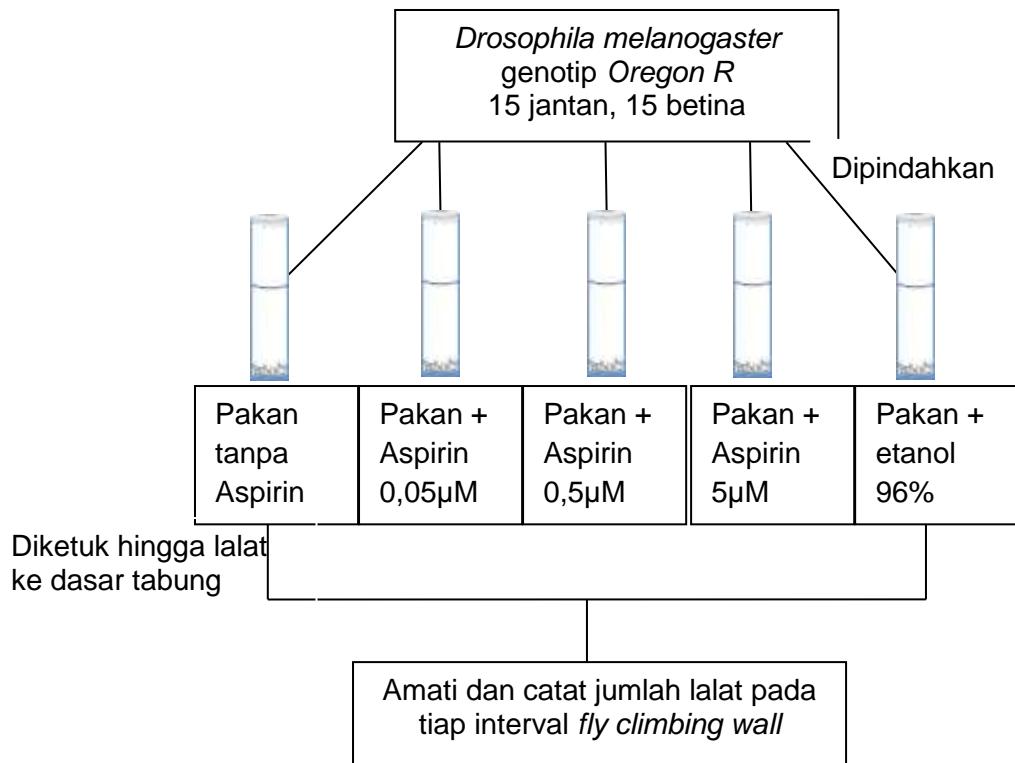
### Lampiran 1.4 Penyiapan sampel RNA



### Lampiran 1.5 Pengujian dengan PCR



### Lampiran 1.6 Uji lokomotor



## Lampiran 2. Perhitungan Pengenceran Aspirin

### Pembuatan larutan aspirin 100 mM ( $100 \times 10^{-3}$ M)

$$M = \frac{m}{MR} \times \frac{1000}{ml}$$

$$100 \times 10^{-3} = \frac{m}{180,16} \times \frac{1000}{25}$$

$$10^{-3} = \frac{10m}{4.504}$$

$$4.504 = 10 m$$

$$m = 0,4504 \text{ gram (ad 25 ml EtOH 96%)}$$

### Dibuat pengenceran dengan konsentrasi 10 mM :

$$N_1 \times V_1 = N_2 \times V_2$$

$$100 \times V_1 = 10 \times 5 \text{ ml}$$

$$V_1 = 0.5 \text{ ml}$$

$$V_1 = 500 \mu\text{l (larutan aspirin 100 mM, ad 5 ml etOH 96%)}$$

### Dibuat pengenceran dengan konsentrasi 1 mM :

$$N_1 \times V_1 = N_2 \times V_2$$

$$100 \times V_1 = 1 \times 5 \text{ ml}$$

$$V_1 = 0.05 \text{ ml}$$

$$V_1 = 50 \mu\text{l (larutan aspirin 100 mM, ad 5 ml etOH 96%)}$$

### Pembuatan pakan Drosophila yang mengandung aspirin dengan konsentrasi 500 $\mu\text{M}$

$$500 \mu\text{M} = 500 \times 10^{-3} \text{ mM}$$

$$N_1 \times V_1 = N_2 \times V_2$$

$$100 \times V_1 = 500 \times 10^{-3} \times 5 \text{ ml}$$

$$V_1 = 25 \times 10^{-3} \text{ ml}$$

$$V_1 = 25 \mu\text{l (dari larutan aspirin 100 mM, ad 5 ml pakan)}$$

**Pembuatan pakan Drosophila yang mengandung aspirin dengan konsentrasi 50  $\mu\text{M}$**

$$50 \mu\text{M} = 50 \times 10^{-3} \text{ mM}$$

$$N_1 \times V_1 = N_2 \times V_2$$

$$10 \times V_1 = 50 \times 10^{-3} \times 5 \text{ ml}$$

$$V_1 = 25 \times 10^{-3} \text{ ml}$$

$$V_1 = 25 \mu\text{l} \text{ (dari larutan aspirin 10 mM, ad 5 ml pakan)}$$

**Pembuatan pakan Drosophila yang mengandung aspirin dengan konsentrasi 5  $\mu\text{M}$**

$$5 \mu\text{M} = 5 \times 10^{-3} \text{ mM}$$

$$N_1 \times V_1 = N_2 \times V_2$$

$$1 \times V_1 = 5 \times 10^{-3} \times 5 \text{ ml}$$

$$V_1 = 25 \times 10^{-3} \text{ ml}$$

$$V_1 = 25 \mu\text{l} \text{ (dari larutan aspirin 1 mM, ad 5 ml pakan)}$$

### Lampiran 3. Tabel Hasil Lokomotor

Tabel 2. Data lokomotor sebelum perlakuan

H-0	Kontrol Sehat			Kontrol Pelarut			Aspirin 5 µM			Aspirin 50 µM			Aspirin 500 µM		
Height	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1	0	1	2	1	3	2	4	2	3	4	2	2	4	2	0
2	0	1	2	0	0	1	2	1	0	1	0	1	0	1	1
3	2	0	0	0	0	1	1	2	1	0	1	0	1	5	2
4	0	1	1	0	0	1	0	1	0	0	0	0	0	2	1
5	2	0	0	0	1	3	1	2	0	0	0	0	2	0	0
6	1	0	0	0	1	1	1	0	3	2	1	3	1	2	2
7	0	1	0	0	1	2	3	1	4	0	2	2	2	2	4
8	1	0	2	2	6	0	2	3	3	2	1	1	4	0	2
9	2	5	2	5	6	3	4	2	2	7	6	6	2	1	1
10	22	21	21	22	12	16	12	16	14	13	17	15	14	15	17

Tabel 3. Data lokomotor hari ke-30

H-30	Kontrol Sehat			Kontrol Pelarut			Aspirin 5 µM			Aspirin 50 µM			Aspirin 500 µM		
Height	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1	5	3	1	9	9	5	10	6	7	13	11	10	11	10	8
2	0	0	1	3	1	3	1	2	1	2	0	3	0	1	0
3	1	1	2	2	2	3	2	0	2	2	4	1	2	1	1
4	9	1	0	3	5	3	1	1	0	1	1	1	2	2	4
5	9	0	1	1	1	1	1	1	1	1	1	0	0	1	0
6	1	0	0	2	1	2	0	0	0	0	1	2	0	0	1
7	0	1	0	0	0	0	0	0	0	1	4	0	1	1	2
8	0	0	1	2	0	0	0	1	1	1	0	2	0	0	0
9	0	0	0	0	1	2	0	1	0	1	0	1	0	0	0
10	0	1	1	0	3	3	0	3	3	2	2	4	0	0	0

#### Lampiran 4. Tabel Olah Statistik Data Lokomotor

Tabel 4. Uji statistik data lokomotor sebelum perlakuan

Tukey's multiple comparisons test	Summary	Adjusted P Value
Kontrol Sehat vs. Kontrol Pelarut	ns	0.9502
Kontrol Sehat vs. Aspirin 5 $\mu$ M	ns	0.2830
Kontrol Sehat vs. Aspirin 50 $\mu$ M	ns	0.9502
Kontrol Sehat vs. Aspirin 500 $\mu$ M	ns	0.1020
Kontrol Pelarut vs. Aspirin 5 $\mu$ M	ns	0.6331
Kontrol Pelarut vs. Aspirin 50 $\mu$ M	ns	>0.9999
Kontrol Pelarut vs. Aspirin 500 $\mu$ M	ns	0.2830
Aspirin 5 $\mu$ M vs. Aspirin 50 $\mu$ M	ns	0.6331
Aspirin 5 $\mu$ M vs. Aspirin 500 $\mu$ M	ns	0.9502
Aspirin 50 $\mu$ M vs. Aspirin 500 $\mu$ M	ns	0.2830

Tabel 5. Uji statistic data lokomotor hari ke-30

Tukey's multiple comparisons test	Summary	Adjusted P Value
Kontrol Sehat vs. Kontrol Pelarut	ns	0.7542
Kontrol Sehat vs. Aspirin 5 $\mu$ M	ns	0.7542
Kontrol Sehat vs. Aspirin 50 $\mu$ M	ns	0.7542
Kontrol Sehat vs. Aspirin 500 $\mu$ M	ns	0.7542
Kontrol Pelarut vs. Aspirin 5 $\mu$ M	ns	>0.9999
Kontrol Pelarut vs. Aspirin 50 $\mu$ M	ns	0.1950
Kontrol Pelarut vs. Aspirin 500 $\mu$ M	ns	>0.9999
Aspirin 5 $\mu$ M vs. Aspirin 50 $\mu$ M	ns	0.1950
Aspirin 5 $\mu$ M vs. Aspirin 500 $\mu$ M	ns	>0.9999
Aspirin 50 $\mu$ M vs. Aspirin 500 $\mu$ M	ns	0.1950

Tabel 6. Perbandingan data sebelum perlakuan dan hari ke-30

Šídák's multiple comparisons test	Summary	Adjusted P Value
<b>Hari 0 - Hari 30</b>		
Kontrol Sehat	****	<0.0001
Kontrol Pelarut	****	<0.0001
Aspirin 5 $\mu$ M	****	<0.0001
Aspirin 50 $\mu$ M	****	<0.0001
Aspirin 500 $\mu$ M	****	<0.0001

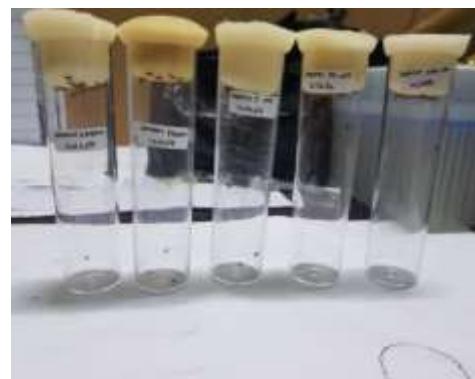
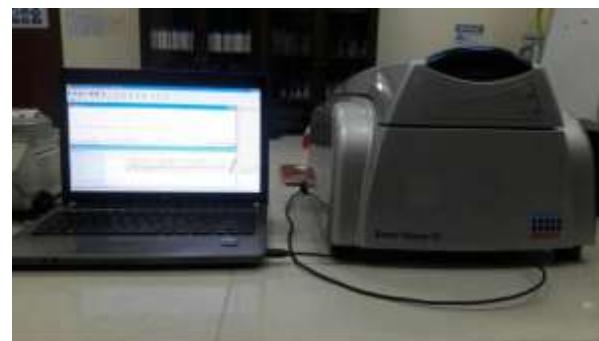
## Lampiran 5. Tabel Olah Statistik Data Uji Genotip

**Tabel 7. Data PCR gen *cat***

Tukey's multiple comparisons test	Summary	Adjusted P Value
Kontrol Pelarut vs. Aspirin 5 uM	ns	>0.9999
Kontrol Pelarut vs. Aspirin 50 uM	ns	0.3099
Kontrol Pelarut vs. Aspirin 500 uM	**	0.0043
Aspirin 5 uM vs. Aspirin 50 uM	ns	0.3124
Aspirin 5 uM vs. Aspirin 500 uM	**	0.0043
Aspirin 50 uM vs. Aspirin 500 uM	*	0.0302

**Tabel 8. Data PCR gen *atg8a***

Tukey's multiple comparisons test	Summary	Adjusted P Value
Kontrol Pelarut vs. Aspirin 5 uM	ns	0.2345
Kontrol Pelarut vs. Aspirin 50 uM	ns	0.9770
Kontrol Pelarut vs. Aspirin 500 uM	ns	0.0585
Aspirin 5 uM vs. Aspirin 50 uM	ns	0.3795
Aspirin 5 uM vs. Aspirin 500 uM	ns	0.5959
Aspirin 50 uM vs. Aspirin 500 uM	ns	0.0932

**Lampiran 6. Gambar Penelitian****Gambar 14. Pembuatan pakan****Gambar 15. Pemisahan alat****Gambar 16. Uji Lokomotor****Gambar 17. Sampel isolasi RNA****Gambar 18. Isolasi RNA****Gambar 19. Running Real Time PCR**