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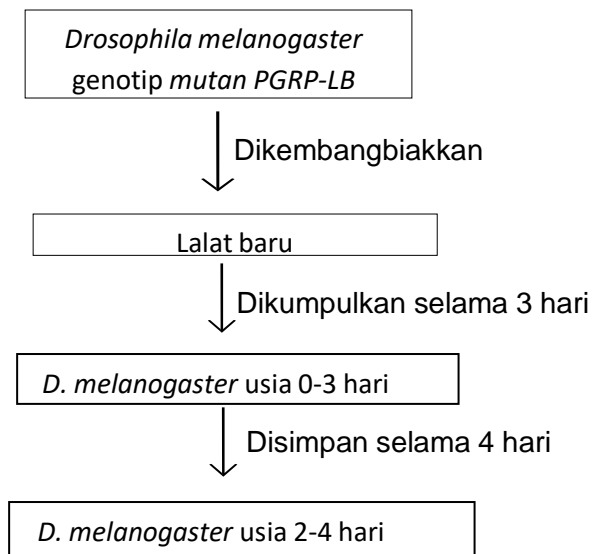
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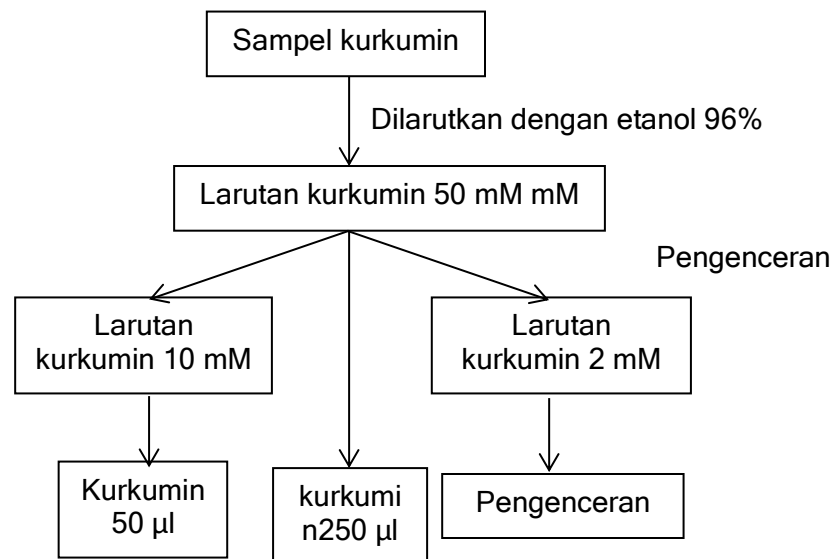
## LAMPIRAN

### Lampiran 1. Skema Kerja Penelitian

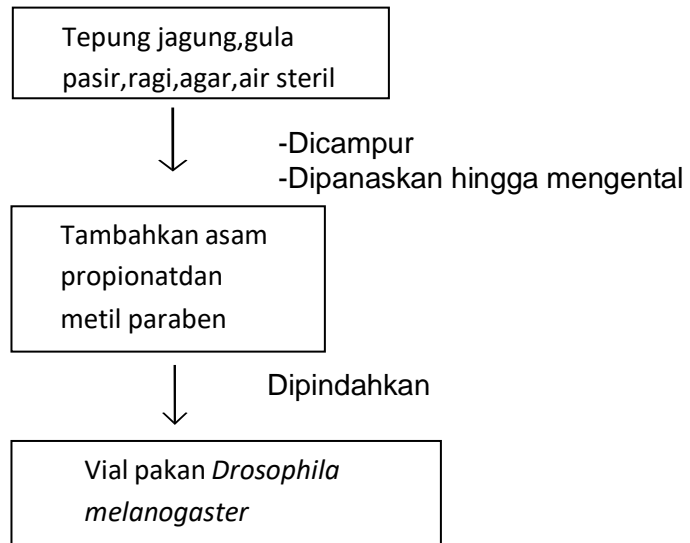
#### Lampiran 1.1 Penyiapan hewan uji



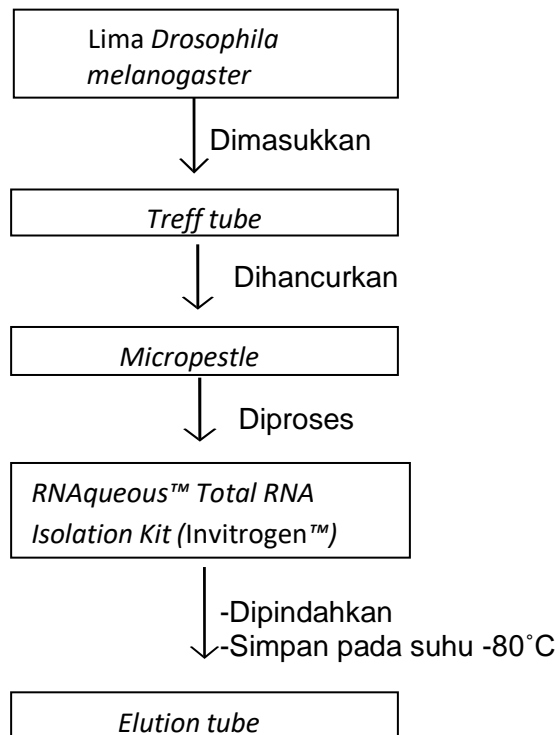
#### Lampiran 1.2 Penyiapan sampel



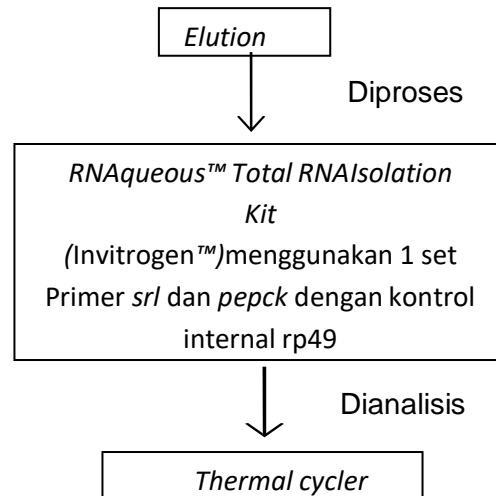
### Lampiran 1.3 Penyiapan pakan



### Lampiran 1.4 Penyiapan sampel RNA



## Lampiran 1.5 Pengujian dengan PCR



## Lampiran 2. Perhitungan Pengenceran Kurkumin

### Pembuatan larutan kurkumin 50 mM ( $50 \times 10^{-3}$ M)

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

$$50 \times 10^{-3} = \frac{m}{368,38} \times \frac{1000}{10}$$

$$m = 0,1819 \text{ gram (ad 10 ml EtOH 96\%)}$$

### Dibuat pengenceran dengan konsentrasi 10 mM :

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

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

$$V_1 = 1 \text{ ml}$$

$$V_1 = 1000 \mu\text{l (larutan kurkumin 50 mM, ad 5 ml etOH 96\%)}$$

### Dibuat pengenceran dengan konsentrasi 2 mM :

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

$$50 \times V_1 = 2 \times 5 \text{ ml}$$

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

$$V_1 = 500 \mu\text{l (larutan kurkumin 50 mM, ad 5 ml etOH 96%)}$$

**Pembuatan pakan Drosophila yang mengandung kurkumin dengan konsentrasi 250  $\mu\text{M}$**

$$250 \mu\text{M} = 250 \times 10^{-3}$$

$$mMN_1 \times V_1 = N_2 \times V_2$$

$$50 \times V_1 = 250 \times 10^{-3} \times 5 \text{ ml}$$

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

$$V_1 = 25 \mu\text{l (dari larutan kurkumin 50 mM, ad 5 ml pakan)}$$

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

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

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

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

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

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

**Pembuatan pakan Drosophila yang mengandung kurkumin dengan konsentrasi 10  $\mu\text{M}$**

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

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

$$2 \times V_1 = 10 \times 10^{-3} \times 5 \text{ ml}$$

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

$$V_1 = 25 \mu\text{l (dari larutan kurkumin 2 mM, ad 5 ml pakan)}$$



## Lampiran 3. Tabel Statistik Uji Genotip

**Tabel 2. Data statistik gen *Srl***

Number of families	1							
Number of comparisons per family	4							
Alpha	0.05							
<b>Dunnett's multiple comparisons test</b>	<b>Mean Diff.</b>	<b>95.00% CI of diff.</b>	<b>Below threshold?</b>	<b>Summary</b>	<b>Adjusted P Value</b>	<b>B-?</b>		
Kontrol Pelarut vs. Tanpa Perlakuan	0.3750	-2.255 to 3.005	No	ns	0.9596	A	Tanpa Perlakuan	
Kontrol Pelarut vs. Kurkumin 10 mM	0.4350	-2.195 to 3.065	No	ns	0.9355	C	Kurkumin 10 mM	
Kontrol Pelarut vs. Kurkumin 50 mM	-1.395	-4.025 to 1.235	No	ns	0.3089	D	Kurkumin 50 mM	
Kontrol Pelarut vs. Kurkumin 250 mM	-4.740	-7.370 to -2.110	Yes	**	0.0045	E	Kurkumin 250 mM	
<b>Test details</b>	<b>Mean 1</b>	<b>Mean 2</b>	<b>Mean Diff.</b>	<b>SE of diff.</b>	<b>n1</b>	<b>n2</b>	<b>q</b>	<b>DF</b>
Kontrol Pelarut vs. Tanpa Perlakuan	2.130	1.755	0.3750	0.7565	2	2	0.4957	5
Kontrol Pelarut vs. Kurkumin 10 mM	2.130	1.695	0.4350	0.7565	2	2	0.5750	5
Kontrol Pelarut vs. Kurkumin 50 mM	2.130	3.525	-1.395	0.7565	2	2	1.844	5
Kontrol Pelarut vs. Kurkumin 250 mM	2.130	6.870	-4.740	0.7565	2	2	6.266	5

**Tabel 3. Data statistik gen *Pepck***

Number of families	1							
Number of comparisons per family	4							
Alpha	0.05							
<b>Dunnett's multiple comparisons test</b>	<b>Mean Diff.</b>	<b>95.00% CI of diff.</b>	<b>Below threshold?</b>	<b>Summary</b>	<b>Adjusted P Value</b>	<b>B-?</b>		
Kontrol Pelarut vs. Tanpa Perlakuan	0.02400	-0.1276 to 0.1756	No	ns	0.9437	A	Tanpa Perlakuan	
Kontrol Pelarut vs. Kurkumin 10 mM	-0.1635	-0.3151 to -0.01189	Yes	*	0.0379	C	Kurkumin 10 mM	
Kontrol Pelarut vs. Kurkumin 50 mM	-0.4290	-0.5806 to -0.2774	Yes	***	0.0006	D	Kurkumin 50 mM	
Kontrol Pelarut vs. Kurkumin 250 mM	-0.6310	-0.7826 to -0.4794	Yes	***	0.0001	E	Kurkumin 250 mM	
<b>Test details</b>	<b>Mean 1</b>	<b>Mean 2</b>	<b>Mean Diff.</b>	<b>SE of diff.</b>	<b>n1</b>	<b>n2</b>	<b>q</b>	<b>DF</b>
Kontrol Pelarut vs. Tanpa Perlakuan	0.4090	0.3850	0.02400	0.04361	2	2	0.5503	5
Kontrol Pelarut vs. Kurkumin 10 mM	0.4090	0.5725	-0.1635	0.04361	2	2	3.749	5
Kontrol Pelarut vs. Kurkumin 50 mM	0.4090	0.8380	-0.4290	0.04361	2	2	9.837	5
Kontrol Pelarut vs. Kurkumin 250 mM	0.4090	1.040	-0.6310	0.04361	2	2	14.47	5

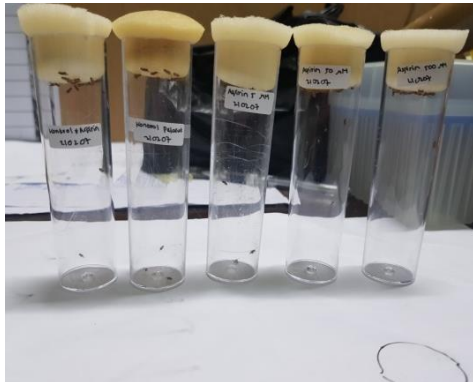
## Lampiran 6. Gambar Penelitian



Gambar 14. Pembuatan pakan



Gambar 15. Pemisahan alat jantan & bentina



Gambar 16. Sampel isolasi RNA



Gambar 17. Isolasi RNA



Gambar 18. Running real time PCR