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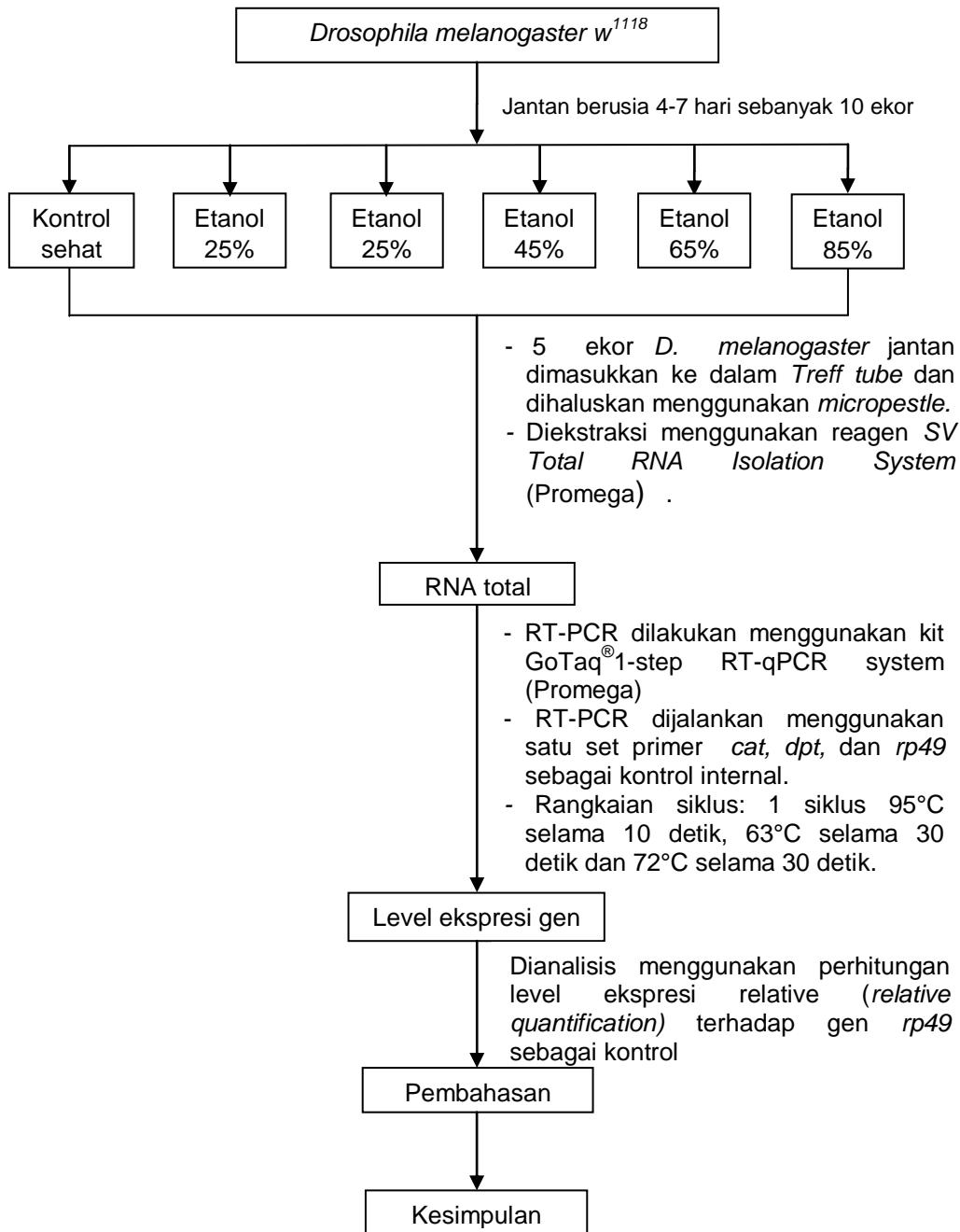
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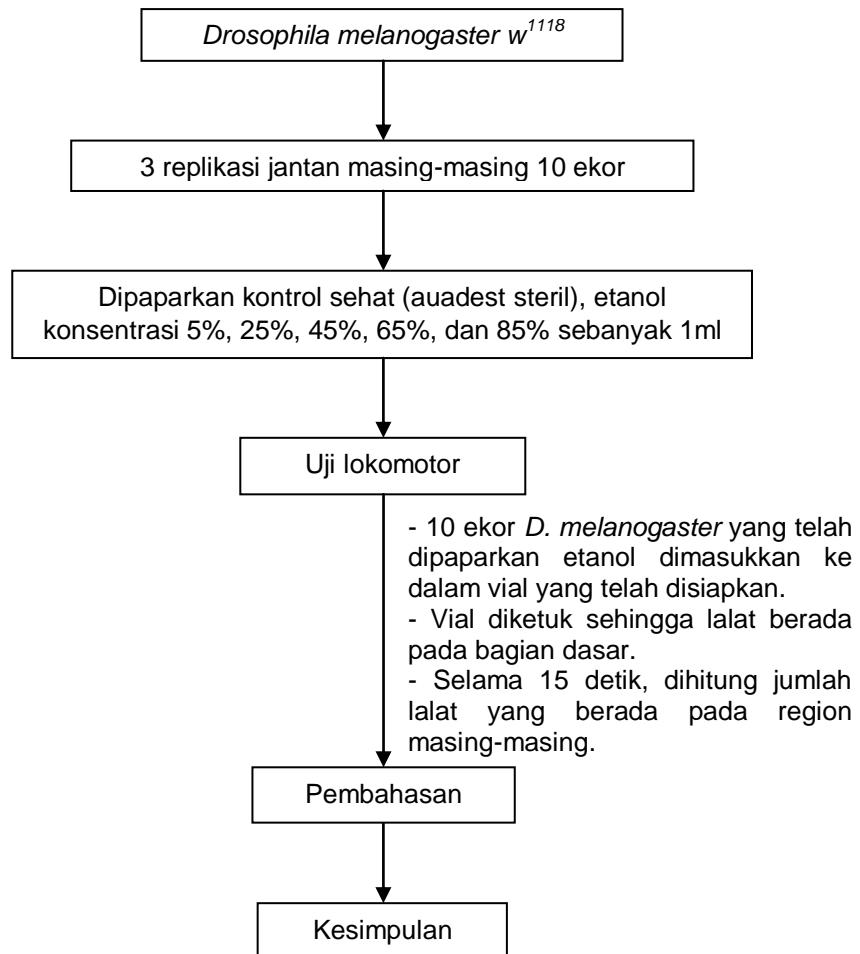
LAMPIRAN

Lampiran 1. Skema Kerja

I.1 Uji PCR



I.2 Uji Lokomotor



Lampiran 2. Komposisi Pakan (*Fly Food*)

Komposisi *fly food Drosophila melanogaster* dalam 200 ml :

1. Tepung jagung : 15 g
2. Ragi (*Yeast*) : 5 g
3. Gula pasir : 9 g
4. Agar : 1,8 g
5. Metil paraben : 900 μ l
6. Asam propionat : 800 μ l
7. Aquadest steril : ad 200 ml

Lampiran 3. Hasil analisis uji molekuler dan fenotip

Tabel 2. Hasil analisis one-way ANOVA ekspresi gen *cat* *Drosophila melanogaster* jantan

ANOVA summary	Value
F	162.6
P value	<0.0001
P value summary	****
Significant diff. among means (P < 0.05)?	Yes
R squared	0.9867

Tabel 3. Hasil analisis lanjutan Tukey test ekspresi gen *cat* *Drosophila melanogaster* jantan

Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Below threshold?	Summary	Adjusted P Value
Kontrol Sehat vs. Etanol 5%	-9.559	-10.89 to -8.224	Yes	****	<0.0001
Kontrol Sehat vs. Etanol 25%	-2.691	-3.886 to -1.496	Yes	***	0.0001
Kontrol Sehat vs. Etanol 45%	-1.234	-2.429 to -0.03974	Yes	*	0.0417
Kontrol Sehat vs. Etanol 65%	-0.5753	-1.770 to 0.6193	No	ns	0.5905
Kontrol Sehat vs. Etanol 85%	0.1837	-1.011 to 1.378	No	ns	0.9939
Etanol 5% vs. Etanol 25%	6.868	5.533 to 8.204	Yes	****	<0.0001
Etanol 5% vs. Etanol 45%	8.325	6.989 to 9.661	Yes	****	<0.0001
Etanol 5% vs. Etanol 65%	8.984	7.648 to 10.32	Yes	****	<0.0001
Etanol 5% vs. Etanol 85%	9.743	8.407 to 11.08	Yes	****	<0.0001
Etanol 25% vs. Etanol 45%	1.457	0.2621 to 2.651	Yes	*	0.0151
Etanol 25% vs. Etanol 65%	2.116	0.9211 to 3.310	Yes	***	0.0009
Etanol 25% vs. Etanol 85%	2.875	1.680 to 4.069	Yes	****	<0.0001
Etanol 45% vs. Etanol 65%	0.6590	-0.5356 to 1.854	No	ns	0.4593
Etanol 45% vs. Etanol 85%	1.418	0.2234 to 2.613	Yes	*	0.0180
Etanol 65% vs. Etanol 85%	0.7590	-0.4356 to 1.954	No	ns	0.3237

Tabel 4. Hasil analisis one-way ANOVA ekspresi gen dpt *Drosophila melanogaster* jantan

ANOVA summary		Value
F		31.78
P value		<0.0001
P value summary		****
Significant diff. among means (P < 0.05)?		Yes
R squared		0.9408

Tabel 5. Hasil analisis lanjutan Tukey test ekspresi gen dpt *Drosophila melanogaster* jantan

Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Below threshold?	Summary	Adjusted P Value
Kontrol Sehat vs. Etanol 5%	0.08847	-0.4512 to 0.6281	No	ns	0.9910
Kontrol Sehat vs. Etanol 25%	0.2847	-0.2550 to 0.8243	No	ns	0.4887
Kontrol Sehat vs. Etanol 45%	0.3047	-0.2350 to 0.8443	No	ns	0.4231
Kontrol Sehat vs. Etanol 65%	-1.408	-2.012 to -0.8050	Yes	***	0.0001
Kontrol Sehat vs. Etanol 85%	-0.9133	-1.517 to -0.3100	Yes	**	0.0036
Etanol 5% vs. Etanol 25%	0.1962	-0.3434 to 0.7358	No	ns	0.7977
Etanol 5% vs. Etanol 45%	0.2162	-0.3234 to 0.7558	No	ns	0.7314
Etanol 5% vs. Etanol 65%	-1.497	-2.100 to -0.8935	Yes	****	<0.0001
Etanol 5% vs. Etanol 85%	-1.002	-1.605 to -0.3985	Yes	**	0.0018
Etanol 25% vs. Etanol 45%	0.02000	-0.5196 to 0.5596	No	ns	>0.9999
Etanol 25% vs. Etanol 65%	-1.693	-2.296 to -1.090	Yes	****	<0.0001
Etanol 25% vs. Etanol 85%	-1.198	-1.801 to -0.5947	Yes	***	0.0004
Etanol 45% vs. Etanol 65%	-1.713	-2.316 to -1.110	Yes	****	<0.0001
Etanol 45% vs. Etanol 85%	-1.218	-1.821 to -0.6147	Yes	***	0.0004
Etanol 65% vs. Etanol 85%	0.4950	-0.1659 to 1.156	No	ns	0.1831

Tabel 6. Hasil analisis one-way ANOVA uji lokomotor *Drosophila melanogaster* jantan

ANOVA summary	Value
F	3.467
P value	0.0360
P value summary	*
Significant diff. among means (P < 0.05)?	Yes
R squared	0.5909

Tabel 7. Hasil analisis lanjutan Tukey test uji lokomotor *Drosophila melanogaster* jantan

Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Below threshold?	Summary	Adjusted P Value
Kontrol Sehat vs. Etanol 5%	0.000	-4.616 to 4.616	No	Ns	>0.9999
Kontrol Sehat vs. Etanol 25%	1.667	-2.950 to 6.283	No	Ns	0.8229
Kontrol Sehat vs. Etanol 45%	3.667	-0.9497 to 8.283	No	Ns	0.1537
Kontrol Sehat vs. Etanol 65%	4.333	-0.2831 to 8.950	No	*	0.0704
Kontrol Sehat vs. Etanol 85%	1.667	-2.950 to 6.283	No	Ns	0.8229
Etanol 5% vs. Etanol 25%	1.667	-2.950 to 6.283	No	Ns	0.8229
Etanol 5% vs. Etanol 45%	3.667	-0.9497 to 8.283	No	Ns	0.1537
Etanol 5% vs. Etanol 65%	4.333	-0.2831 to 8.950	No	Ns	0.0704
Etanol 5% vs. Etanol 85%	1.667	-2.950 to 6.283	No	Ns	0.8229
Etanol 25% vs. Etanol 45%	2.000	-2.616 to 6.616	No	Ns	0.6961
Etanol 25% vs. Etanol 65%	2.667	-1.950 to 7.283	No	Ns	0.4254
Etanol 25% vs. Etanol 85%	0.000	-4.616 to 4.616	No	Ns	>0.9999
Etanol 45% vs. Etanol 65%	0.6667	-3.950 to 5.283	No	Ns	0.9958
Etanol 45% vs. Etanol 85%	-2.000	-6.616 to 2.616	No	Ns	0.6961
Etanol 65% vs. Etanol 85%	-2.667	-7.283 to 1.950	No	Ns	0.4254

Lampiran 4. Gambar Penelitian



Gambar 11. BSC II



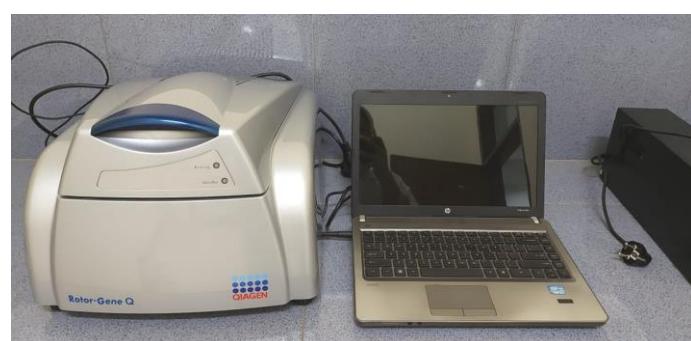
Gambar 12. *Microscope zoom stereo*



Gambar 13. Sentrifuge



Gambar 14. Pembuatan pakan



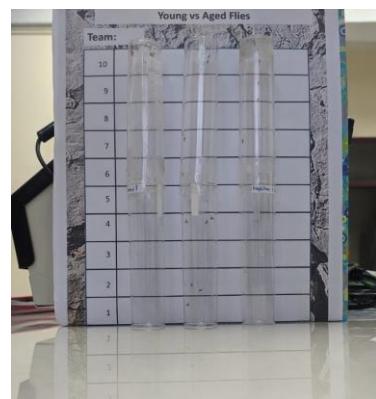
Gambar 15. Satu set alat PCR (*Thermal cycler*)



Gambar 16. *Drosophila melanogaster* w^{1118}



Gambar 17. *Termomixer*



Gambar 18. Pengamatan uji lokomotor