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LAMPIRAN

Lampiran 1. Data perhitungan dalam penelitian

1. Diameter Telur

Embrio	Dv (mm)	Dh (mm)	Ds (mm)
1	1,32	1,4	1,36
2	1,4	1,4	1,40
3	1,46	1,41	1,43
4	1,44	1,43	1,43
5	1,46	1,43	1,44
6	1,34	1,42	1,38
7	1,41	1,42	1,41
8	1,38	1,42	1,40
9	1,43	1,41	1,42
10	1,4	1,4	1,40

2. Volume kuning telur

Embrio	ERM (mm^3)		Cd+aquabidest (mm^3)		Cd+ERM (mm^3)	
	Awal	Akhir	Awal	Akhir	Awal	Akhir
1	0,946118	0,458045	1,021879	0,247994	1,106647	0,343118
2	1,046614	0,376713	1,080911	0,201582	1,079558	0,217901
3	0,958196	0,419818	1,204055	0,223519	1,005834	0,151706
4	1,006036	0,364146	1,186017	0,238605	1,014146	0,123543
5	0,947779	0,220286	1,002799	0,134826	1,072533	0,303361
6	0,953286	0,302431				
7	1,106647	0,538066				
8	1,141500	0,366622				
9	1,072533	0,328244				
10	1,105216	0,315396				

3. Laju penyerapan kuning telur

Embrio	ERM (mm^3/jam)	Cd+aquabidest (mm^3/jam)	Cd+ERM (mm^3/jam)
1	0,00226	0,003583	0,003535
2	0,003101	0,003646	0,003989
3	0,002492	0,00454	0,003954
4	0,002972	0,00415	0,003711
5	0,003368	0,002655	0,003561
6	0,002712		
7	0,002369		
8	0,002935		
9	0,003101		
10	0,003657		

4. Waktu inkubasi

Embrio	ERM (Hari)	Cd+aquabidest (Hari)	Cd+ERM (Hari)
1	10	10	10
2	10	10	11
3	10	10	11
4	10	10	10
5	11	10	11
6	10		
7	11		
8	12		
9	11		
10	10		

5. Panjang Larva Awal menetas

Larva	ERM (mm)	Cd+aquabidest (mm)	Cd+ERM (mm)
1	4,75	4,68	4,83
2	4,8	4,63	4,51
3	4,86	4,7	4,83
4	4,77	4,68	4,77
5	4,94	4,76	4,74
6	4,95		
7	4,59		
8	5,13		
9	4,89		
10	4,59		

Lampiran 2. Hasil analisis uji normalitas dan homogenitas

1. Laju penyerapan kuning telur

KS normality test	
KS distance	0,1375
P value	> 0,10
Passed normality test (alpha=0.05)?	Yes
P value summary	ns

Test of Homogeneity of Variances

VAR00006

Levene Statistic	df1	df2	Sig.
1.735	2	17	.206

2. Waktu inkubasi

KS normality test	
KS distance	0,4001
P value	< 0,0001
Passed normality test (alpha=0.05)?	No
P value summary	***

Test of Homogeneity of Variances

T

Levene Statistic	df1	df2	Sig.
12.335	2	17	.000

3. Panjang larva awal menetas

KS normality test	
KS distance	0,1000
P value	> 0,10
Passed normality test (alpha=0.05)?	Yes
P value summary	Ns

Test of Homogeneity of Variances

VAR00001

Levene Statistic	df1	df2	Sig.
2.165	2	17	.145

4. Kelangsungan hidup larva

KS normality test	
KS distance	0,3227
P value	< 0,0001
Passed normality test (alpha=0.05)?	No
P value summary	***

Test of Homogeneity of Variances

VAR00001

Levene Statistic	df1	df2	Sig.
7.556	2	17	.004

Lampiran 3. Hasil uji analisis statistik

1. Laju penyerapan kuning telur

One-way analysis of variance					
P value	< 0,0001				
P value summary	***				
Are means signif. different? (P < 0.05)	Yes				
Number of groups	3				
F	19,46				
R square	0,6960				
Tukey's Multiple Comparison Test	Mean Diff.	q	Significant? P < 0,05?	Summary	95% CI of diff
ERM vs Cd+aquabidest	-0,001223	8,229	Yes	***	-0,001762 to -0,0006837
ERM vs Cd+erm	-0,0008533	5,742	Yes	**	-0,001392 to -0,0003141
Cd+aquabidest vs Cd+erm	0,0003696	2,154	No	ns	-0,0002530 to 0,0009922

2. Waktu inkubasi

Kruskal-Wallis test			
P value	0,1604		
Exact or approximate P value?	Gaussian Approximation		
P value summary	ns		
Do the medians vary signif. (P < 0.05)	No		
Number of groups	3		
Kruskal-Wallis statistic	3,660		
Dunn's Multiple Comparison Test	Difference in rank sum	Significant? P < 0,05?	Summary
Column A vs Column B	4,150	No	ns
Column A vs Column C	-1,550	No	ns
Column B vs Column C	-5,700	No	ns

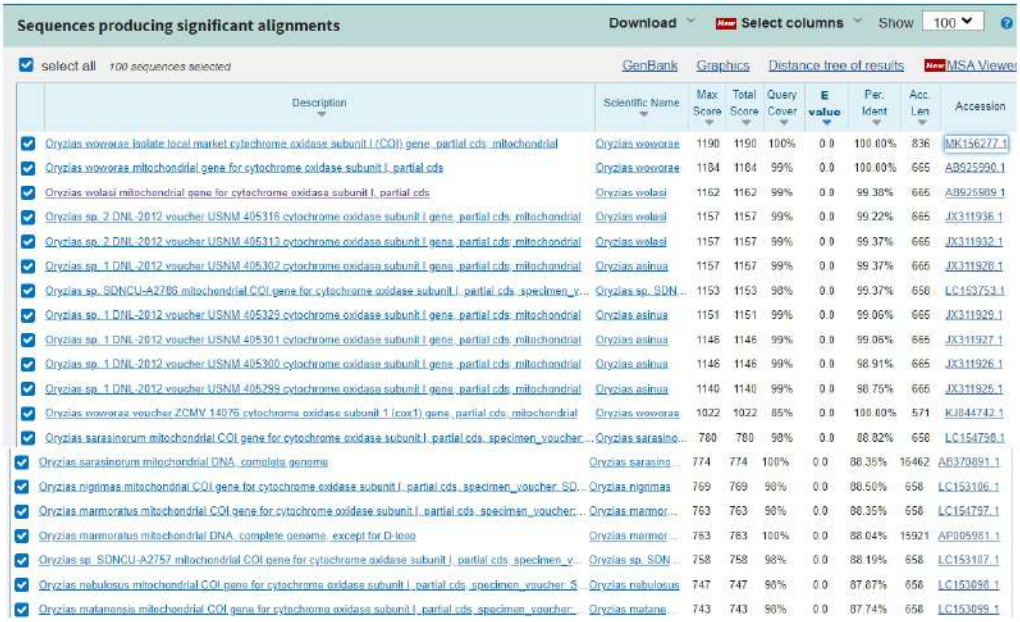
3. Panjang larva awal menetas

One-way analysis of variance				
P value	0,1901			
P value summary	ns			
Are means signif. different? (P < 0.05)	No			
Number of groups	3			
F	1,834			
R square	0,1774			
Tukey's Multiple Comparison Test	Mean Diff.	q	Significant? P < 0,05?	Summary
Column A vs Column B	0,1370	2,555	No	ns
Column A vs Column C	0,09100	1,697	No	ns
Column B vs Column C	-0,0460	0,7431	No	ns

4. Kelangsungan hidup larva

Kruskal-Wallis test			
P value	0.0018		
Exact or approximate P value?	Gaussian Approximation		
P value summary	**		
Do the medians vary signif. (P < 0.05)	Yes		
Number of groups	3		
Kruskal-Wallis statistic	12.67		
Dunn's Multiple Comparison Test	Difference in rank sum	Significant? P < 0.05?	Summary
ERM vs Cd+aquabidest	8.000	Yes	*
ERM vs Cd+erm	8.000	Yes	*
Cd+aquabidest vs Cd+erm	0.0	No	ns

Lampiran 4. Hasil Alignment *Oryzias woworae* sampel secara online pada laman web NCBI menggunakan program nBLAST



Sequences producing significant alignments Download Select columns Show 100

select all 100 sequences selected GenBank Graphics Distance tree of results MSA Viewer

Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
Oryzias woworae isolate local market cytochrome oxidase subunit I (COI) gene, partial cds; mitochondrial	Oryzias woworae	1190	1190	100%	0.0	100.00%	836	MK156277.1
Oryzias woworae mitochondrial gene for cytochrome oxidase subunit I, partial cds	Oryzias woworae	1184	1184	99%	0.0	100.00%	665	AB925990.1
Oryzias wolasi mitochondrial gene for cytochrome oxidase subunit I, partial cds	Oryzias wolasi	1162	1162	99%	0.0	99.38%	665	AB925989.1
Oryzias sp. 2 DNL-2012 voucher USNM 405316 cytochrome oxidase subunit I gene, partial cds; mitochondrial	Oryzias wolasi	1157	1157	99%	0.0	99.22%	665	JX311936.1
Oryzias sp. 2 DNL-2012 voucher USNM 405313 cytochrome oxidase subunit I gene, partial cds; mitochondrial	Oryzias wolasi	1157	1157	99%	0.0	99.37%	665	JX311932.1
Oryzias sp. 1 DNL-2012 voucher USNM 405302 cytochrome oxidase subunit I gene, partial cds; mitochondrial	Oryzias asinua	1157	1157	99%	0.0	99.37%	665	JX311926.1
Oryzias sp. SDNCU-A2786 mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen_v...	Oryzias sp. SDN...	1153	1153	98%	0.0	99.37%	658	LC153753.1
Oryzias sp. 1 DNL-2012 voucher USNM 405329 cytochrome oxidase subunit I gene, partial cds; mitochondrial	Oryzias asinua	1151	1151	99%	0.0	99.06%	665	JX311929.1
Oryzias sp. 1 DNL-2012 voucher USNM 405301 cytochrome oxidase subunit I gene, partial cds; mitochondrial	Oryzias asinua	1148	1148	99%	0.0	99.06%	665	JX311927.1
Oryzias sp. 1 DNL-2012 voucher USNM 405300 cytochrome oxidase subunit I gene, partial cds; mitochondrial	Oryzias asinua	1148	1148	99%	0.0	98.91%	665	JX311926.1
Oryzias sp. 1 DNL-2012 voucher USNM 405299 cytochrome oxidase subunit I gene, partial cds; mitochondrial	Oryzias asinua	1140	1140	99%	0.0	98.75%	665	JX311925.1
Oryzias woworae voucher ZCMV 14076 cytochrome oxidase subunit 1 (cox1) gene, partial cds; mitochondrial	Oryzias woworae	1022	1022	85%	0.0	100.00%	571	KJ844742.1
Oryzias sarasinorum mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen_voucher:...	Oryzias sarasino...	780	780	98%	0.0	88.82%	658	LC154796.1
Oryzias sarasinorum mitochondrial DNA, complete genome	Oryzias sarasino...	774	774	100%	0.0	88.36%	16462	AB370891.1
Oryzias nigrimas mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen_voucher: SD...	Oryzias nigrimas	769	769	98%	0.0	88.50%	658	LC153106.1
Oryzias marmoratus mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen_voucher:...	Oryzias marmor...	763	763	98%	0.0	88.35%	658	LC154797.1
Oryzias marmoratus mitochondrial DNA, complete genome, except for D-loop	Oryzias marmor...	763	763	100%	0.0	88.04%	15921	AP005981.1
Oryzias sp. SDNCU-A2757 mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen_v...	Oryzias sp. SDN...	758	758	98%	0.0	88.19%	658	LC153107.1
Oryzias nebulosus mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen_voucher: S...	Oryzias nebulosus	747	747	98%	0.0	87.67%	658	LC153098.1
Oryzias matanensis mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen_voucher:...	Oryzias matane...	743	743	98%	0.0	87.74%	658	LC153099.1