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LAMPIRAN

Lampiran 1. Glossarium

Daftar Istilah

Istilah	Arti dan penjelasan
Anneling	Metode perlakuan panas pada material yang bertujuan meningkatkan keuletan dan mengurangi kekerasan suatu bahan.
Amplifikasi DNA	Peningkatan jumlah Salinan dari satu bagian spesifik dari DNA
Delesi	Jenis mutase kromosom yang membuat bagian tertentu dari kromosom hilang atau terhapus
Denaturasi DNA	Proses pemanasan DNA dengan penambahan senyawa alkali kuat yang menyebabkan ikatan hydrogen pada DNA labil dan terputus
Domestikasi	Suatu budi daya yang dilakukan oleh manusia pada tumbuhan atau hewan yang menyebabkan perubahan genetik pada organisme tersebut
Elektroforesis	Metode pemisahan di mana molekul bermuatan bermigrasi dalam kecepatan diferensial di medan listrik yang diterapkan
Fenotipe	Karakteristik yang dapat diamati/dilihat/diukur dari suatu organisme
Filogenetik	Salah satu cabang dari biologi yang berhubungan, mempelajari dan menentukan hubungan evolusioner, atau juga pola keturunan, kelompok organisme
Galur	Sekelompok individu sejenis yang memiliki sifat keturunan tertentu yang seragam dan stabil
Gen	Unit pewarisan sifat bagi organisme hidup
Genom	Materi genetic dalam suatu organisme
Genotipe	Keadaan genetik dari suatu individu atau sekumpulan individu populasi
Homogen	Suatu benda atau zat yang memiliki komposisi, sifat, dan susunan molekul yang seragam atau sama di seluruh bagian atau volume
Homologi	Konsep dalam biologi yang mengacu pada kesamaan struktur, genetika, atau fungsi antara organisme yang memiliki nenek moyang yang sama
Inseri	Peristiwa penambahan satu basa nitrogen pada gen
Mutagen	Agen fisik atau kimia yang menyebabkan terjadinya mutasi pada materi genetik
Polimorfisme	Ketika dua atau beberapa fenotipe yang berbeda ada

Sekuen	dalama populasi suatu spesies Urutan dari nukleotida yang dapat berhubungan dengan fungsi biologis
Sekuensing	Teknik untuk menentukan urutan basa nukleotida pada DNA
Sentrifugasi	Proses pemisahan campuran, terutama yang terdiri dari padatan dan cairan dengan kepadatan berbeda
Supernatan	Cairan yang dapat diamati di atas endapan padat
Teleostei	Ikan yang memiliki rangka terdiri dari tulang, insang terletak dalam rongga yang tertutup-insang
Transisi	Pergantian basa nitrogen yang sejenis
Transversi	Pergantian basa nitrogen yang tidak sejenis

Daftar singkatan

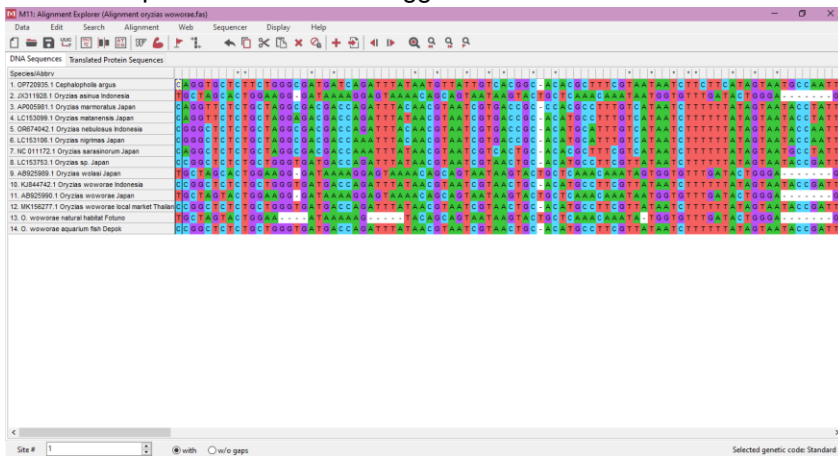
Lambang/ Singkatan	Arti dan penjelasan
DNA	Deoxyribunucleic Acid
COI	Cytochrome Oxidase Subunit I
Cyt.b	Cytochrome b
CTAB	Cetyl Trimethyl Ammonium Bromide
DTAB	Dodecyl Trimethyl Ammonium Bromide
µL	Mikro liter
rpm	Revolusi per menit
Tris EDTA	Tris ethylene diamine tetracetic acid
PCR	Polymerase Chain Reaction
BLAST	Basic Local Alignment Search Tool
AT	Adenin-Timin
GC	Guanin-Sitosin

Lampiran 2. Hasil blasting *Oryzias woworae sampel* secara online pada laman web NCBI menggunakan program BLAST

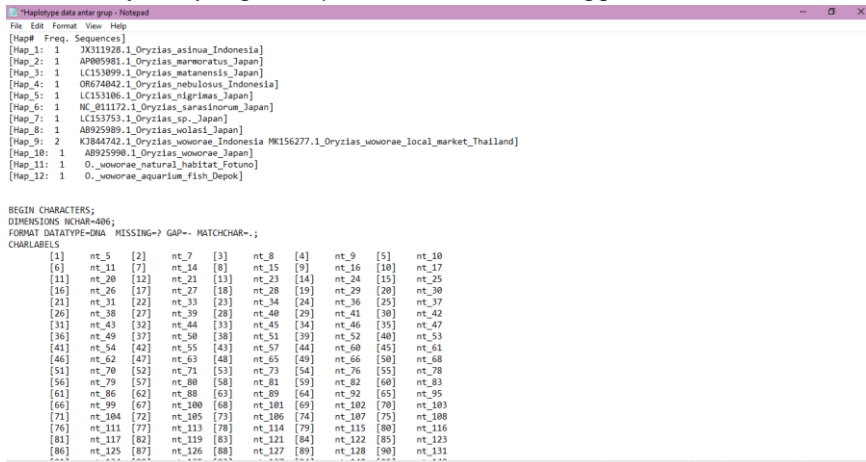
The screenshot shows the NCBI BLAST results interface. At the top, it says 'Sequences producing significant alignments'. Below this, there are several tabs: 'Download', 'Select columns', 'Show', and '100'. There are also links for 'GenBank', 'Graphics', 'Distance tree of results', and 'MSA Viewer'. A table of results is displayed with columns for 'Description', 'Scientific Name', 'Max Score', 'Total Score', 'Query Cover', 'E value', 'Per. Ident', 'Acc. Len', and 'Accession'. The top results are for *Oryzias woworae* mitochondrial COI gene, with scores ranging from 1081 to 632 and E-values from 0.0 to 0.0001. Other species listed include *Xanopoechilus sarasinorum*, *Oryzias marmoratus*, and *Oryzias matanensis*.

Descriptions		Graphic Summary	Alignments	Taxonomy				
Sequences producing significant alignments								
select all 100 sequences selected								
Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per Ident	Acc Len	Accession
<input checked="" type="checkbox"/> <i>Oryzias wovora</i> isolate local market cytochrome oxidase subunit I (COI) gene, partial cds, mitochondrial	<i>Oryzias wovora</i>	1273	1273	99%	0.0	99.29%	836	MK156277.1
<input checked="" type="checkbox"/> <i>Oryzias wovora</i> mitochondrial gene for cytochrome oxidase subunit I, partial cds	<i>Oryzias wovora</i>	1216	1216	93%	0.0	99.70%	666	AB925989.1
<input checked="" type="checkbox"/> <i>Oryzias wolasi</i> mitochondrial gene for cytochrome oxidase subunit I, partial cds	<i>Oryzias wolasi</i>	1195	1195	93%	0.0	99.10%	666	AB925989.1
<input checked="" type="checkbox"/> <i>Oryzias</i> sp. 2 DNA-2012 voucher USNM 405316 cytochrome oxidase subunit I gene, partial cds, mitochondrial	<i>Oryzias wolasi</i>	1190	1190	93%	0.0	98.95%	666	JX311932.1
<input checked="" type="checkbox"/> <i>Oryzias</i> sp. 1 DNA-2012 voucher USNM 405302 cytochrome oxidase subunit I gene, partial cds, mitochondrial	<i>Oryzias wolasi</i>	1190	1190	93%	0.0	98.95%	666	JX311932.1
<input checked="" type="checkbox"/> <i>Oryzias</i> sp. 1 DNA-2012 voucher USNM 405302 cytochrome oxidase subunit I gene, partial cds, mitochondrial	<i>Oryzias asua</i>	1190	1190	93%	0.0	98.95%	666	JX311932.1
<input checked="" type="checkbox"/> <i>Oryzias</i> sp. 30NCU-A2786 mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen, vq	<i>Oryzias</i> sp. 30N	1188	1188	92%	0.0	99.24%	658	LC154750.1
<input checked="" type="checkbox"/> <i>Oryzias</i> sp. 1 DNA-2012 voucher USNM 405329 cytochrome oxidase subunit I gene, partial cds, mitochondrial	<i>Oryzias asua</i>	1184	1184	93%	0.0	98.80%	666	JX311929.1
<input checked="" type="checkbox"/> <i>Oryzias</i> sp. 1 DNA-2012 voucher USNM 405300 cytochrome oxidase subunit I gene, partial cds, mitochondrial	<i>Oryzias asua</i>	1179	1179	93%	0.0	98.65%	666	JX311927.1
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<input checked="" type="checkbox"/> <i>Oryzias</i> sp. 1 DNA-2012 voucher USNM 405309 cytochrome oxidase subunit I gene, partial cds, mitochondrial	<i>Oryzias asua</i>	1173	1173	93%	0.0	98.50%	666	JX311925.1
<input checked="" type="checkbox"/> <i>Oryzias wovora</i> voucher ZCMV-14675 cytochrome oxidase subunit I (cox1) gene, partial cds, mitochondrial	<i>Oryzias wovora</i>	1050	1050	80%	0.0	99.83%	571	KJ844742.1
<input checked="" type="checkbox"/> <i>Kenacochia sarasinorum</i> mitochondrial complete genome	<i>Oryzias sarasinu</i>	843	843	99%	0.0	88.34%	14642	NC_011172.1
<input checked="" type="checkbox"/> <i>Oryzias marmoratus</i> mitochondrial DNA, complete genome, ascet for D-loop	<i>Oryzias marmor</i>	821	821	99%	0.0	87.77%	15021	AF505981.1
<input checked="" type="checkbox"/> <i>Oryzias sarasinorum</i> mitochondrial COI gene for cytochrome oxidase subunit I, partial cds, specimen, voucher	<i>Oryzias sarasinu</i>	798	798	91%	0.0	88.80%	658	LC154750.1

Lampiran 3. Hasil alignment sampel *O. wovora* dan sekuen gen *Oryzias* yang terdeposit di *Genbank* menggunakan software MEGA X



Lampiran 4. Hasil analisis variasi genetik sampel *O. wovora* dan sekuen gen *Oryzias* yang terdeposit di *Genbank* menggunakan software DNAsp



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Haplotype data enter group - Notepad
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Hap_4 GAGAACGGGAGTAAACCAATAGTAAAGGGGGCAGGAGGATAG.A

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