GenBank Record Survey 2024

OMB Control Number: **0925-0648**
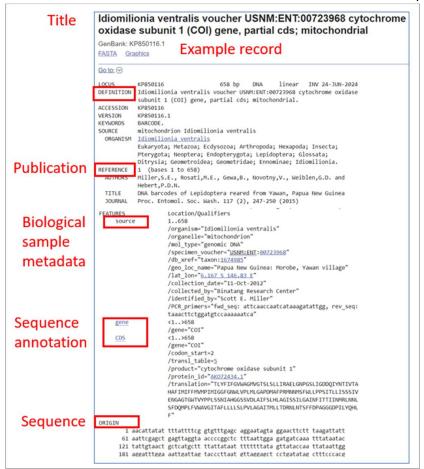Expiration Date: **07/31/2027**
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All questions are optional, and you may exit the survey at any time.

Which role best describes you?

○ Researcher

○ Student (including graduate student)

○ Educator

○ Other (please tell us more)

_____

Do you submit sequences to GenBank?

○ Yes

○ No

How do you access GenBank records? (select all that apply)

☐ Web browsing

☐ Programmatic download

How important have GenBank records been to furthering your research?

○ Not at all important

○ Slightly important

○ Moderately important

○ Very important

○ Extremely important

How do you use GenBank records in your research? (select all that apply)

☐ Design species or gene-specific primers

☐ Construct phylogenetic trees

☐ Discover genes and/or protein functions

☐ Identify unknown organisms

☐ Find drug targets

☐ Other (please tell us more)
_____

How would you find a GenBank record? (select all that apply)

☐   Use accession number from a BLAST result

☐   Use accession number from a publication

☐   Follow "Sequence Data" link from a BioProject or BioSample

☐   Keyword search

☐   Other (please tell us more)
_____

Please rank the information on a GenBank record from most important to least important to you.

_____ Record title (DEFINITION)
_____ Publication (REFERENCE)
_____ Biological sample metadata (FEATURES > source)
_____ Sequence
_____ Sequence annotation (e.g., FEATURES > CDS)
_____ Other (please tell us more)

Please rank the information about the **biological sample metadata** from most important to least important to you.

```
Biological  source      1..658
sample                  /organism="Idiomilionia ventralis"
metadata                /organelle="mitochondrion"
                        /mol_type="genomic DNA"
                        /specimen_voucher="USNM:ENT:00723968"
                        /db_xref="taxon:1674985"
                        /geo_loc_name="Papua New Guinea: Morobe, Yawan village"
                        /lat_lon="6.167 S 146.83 E"
                        /collection_date="11-Oct-2012"
                        /collected_by="Binatang Research Center"
                        /identified_by="Scott E. Miller"
                        /PCR_primers="fwd_seq: attcaaccaatcataaagatattgg, rev_seq:
                        taaacttctggatgtccaaaaaatca"
```

_____ Organism name
_____ Additional organism information (e.g., strain, isolate, cultivar)
_____ Biological or environmental origin of sample (e.g., tissue, soil, host of a virus)
_____ Geographic location of sample collection
_____ Collection date
_____ Voucher linked to a physical specimen
_____ Other (please tell us more)

Please rank the kinds of **sequence annotation** from most important to least important to you.

```
gene        <1..>658     Location or interval span
            /gene="COI"  Gene symbol
CDS         <1..>658
            /gene="COI"
            /codon_start=2
            /transl_table=5
Protein product name  /product="cytochrome oxidase subunit 1"
            /protein_id="AKO72434.1"
            /translation="TLYFIFGVWAGMVGTSLSLLIRAELGNPGSLIGDDQIYNTIVTA
HAFIMIFFMVMPIMIGGFGNWLVPLMLGAPDMAFPRMNNMSFWLLPPSITLLISSSIV
ENGAGTGWTVYPPLSSNIAHGGSSVDLAIFSLHLAGISSILGAINFITTIINMRLNNL
SFDQMPLFVWAVGITAFLLLLSLPVLAGAITMLLTDRNLNTSFFDPAGGGDPILYQHL
                            /organism="Chlamydomonadaceae sp."
                            /mol_type="genomic DNA"
                            /isolate="OTU299"
                            /db_xref="taxon:2589019"
            rRNA            <1..>381
rRNA component  /product="small subunit ribosomal RNA"
```

_____ Protein product name
_____ Protein sequence translation
_____ Gene symbol
_____ Location or interval spans of a feature on the nucleotide sequence
_____ rRNA component (e.g., small subunit)
_____ Other (please tell us more)

What indicates the quality of a GenBank record to you?

○ I trust every GenBank record is high quality

○ "RefSeq" or "UNVERIFIED" in the KEYWORDS field

```
LOCUS       NM_001290023            2700 bp    mRNA    linear   PRI 17-MAR-2024
DEFINITION  Homo sapiens interleukin 12 receptor subunit beta 1 (IL12RB1),
            transcript variant 3, mRNA.
ACCESSION   NM_001290023 XM_005259893
VERSION     NM_001290023.2
KEYWORDS    RefSeq.
SOURCE      Homo sapiens (human)

LOCUS       PP471870                2616 bp    mRNA    linear   PLN 17-MAR-2024
DEFINITION  UNVERIFIED: Aspergillus flavipes mRNA sequence.
ACCESSION   PP471870
VERSION     PP471870.1
KEYWORDS    UNVERIFIED.
SOURCE      Aspergillus flavipes
```

○ Quality is not clear to me, but I would like to know more about how to judge the quality of a record

○ Other (please tell us more)

_____

What does "RefSeq" in the KEYWORDS field mean to you about the quality of a record?

○ Very Good

○ Good

○ Acceptable

○ Poor

○ Very Poor

What does "UNVERIFIED" in the KEYWORDS field mean to you about the quality of a record?

○ Very Good

○ Good

○ Acceptable

○ Poor

○ Very Poor

Have you encountered any GenBank records with errors?

○ Yes

○ No

What type of error did you encounter? (select all that apply)

☐   Sequence error

☐   Sequence annotation error

☐   Biological sample metadata error

☐   Other (please tell us more)
_____

How severely was your work impacted by the error?

○ Minorly impacted

○ Moderately impacted

○ Majorly impacted

○ Severely impacted

Please enter your contact information if you would be willing to share additional feedback about GenBank with us.

Name

_____

Email

_____

End of Block: Default Question Block