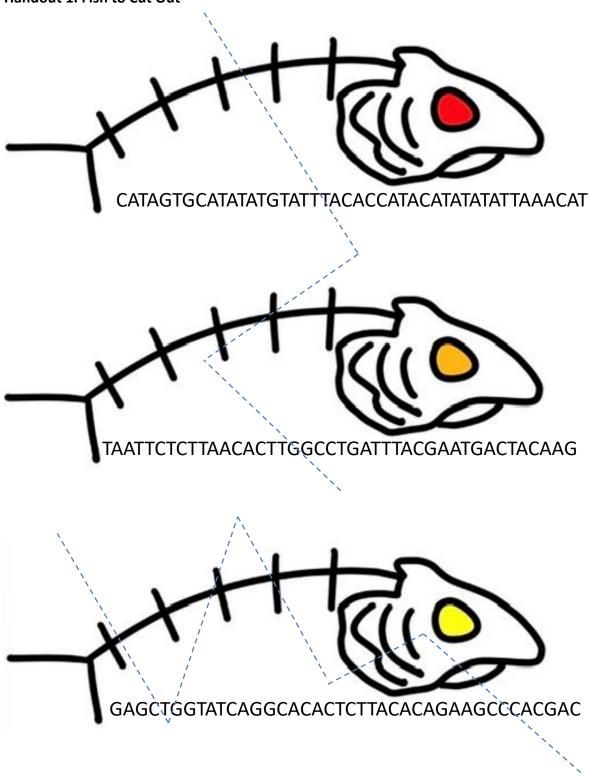
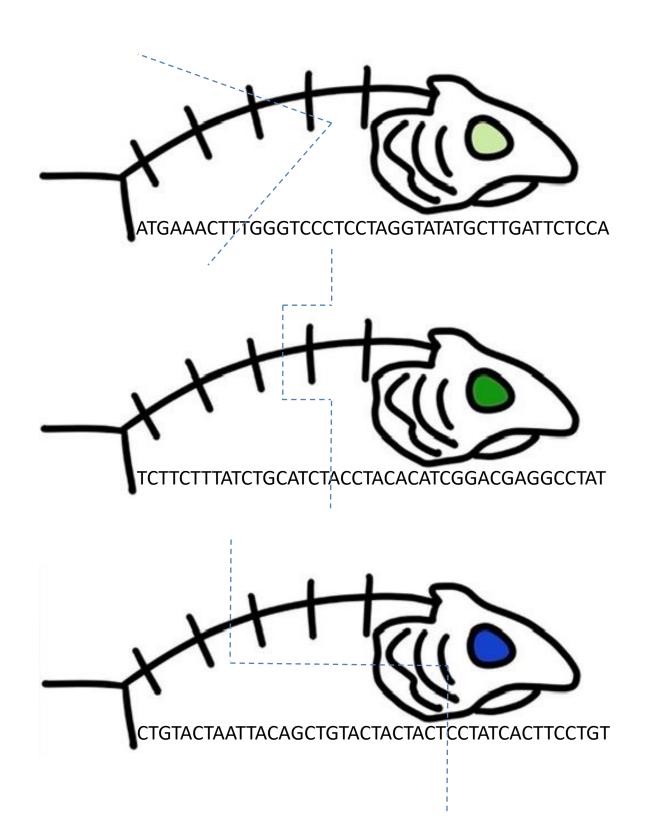
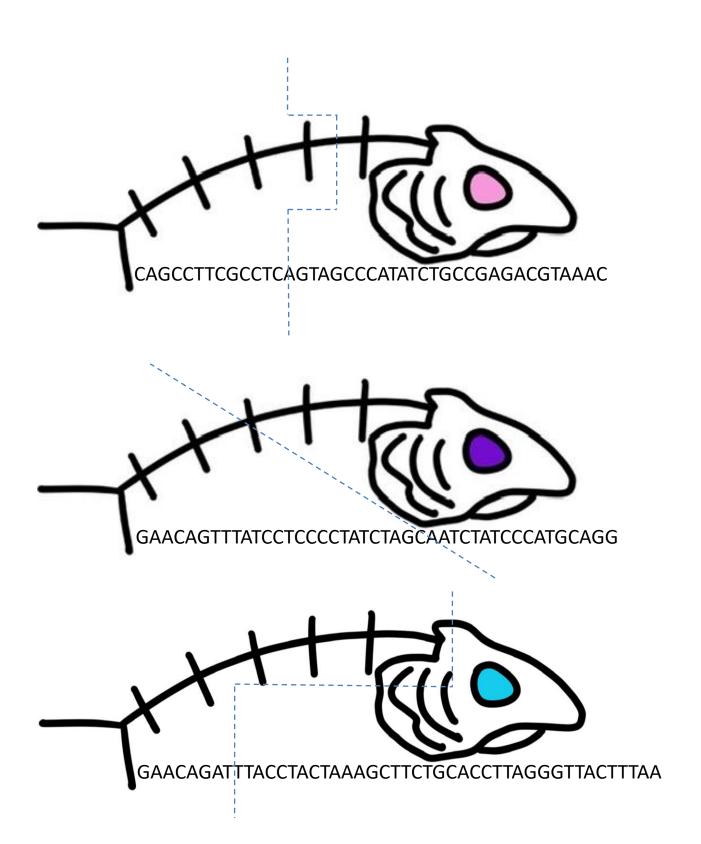
**Handout 1. Fish to Cut Out** 





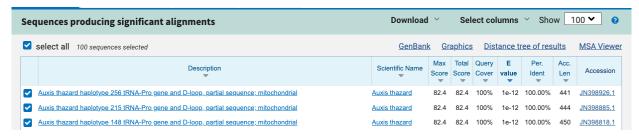


# Worksheet 1. Student Worksheet

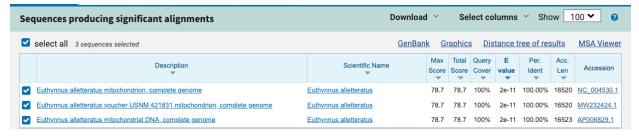
Name	Assessment	Class period
Date	Eye color of organism	
1. What is the DNA sequence yo	ou picked?	
NCBI BLAST website: https://b	last.ncbi.nlm.nih.gov/Blast.cgi	
Go to NCBI GenBank, <u>nucleotid</u> questions:	e BLAST. Search the sequence and answ	wer the following
2. What is the first scientific nar	me that comes up? They are in the sec	ond column.
3. Are the first three scientific n	names the same species?	
result? If not, list the English co	e. Are there other species listed that ar mmon name of your species. If yes, list	the other scientific
names and determine the Engli	sh common name for those species, in	addition to your species.
-	t are listed in the results, why do you t	hink the results show
other species besides the corre	ct species identification?	
6. How can using DNA and gene	etics be useful in learning about the foc	od web?

# Worksheet 2. Advanced Student Worksheet Supplement – use the DNA sequence from the organism in Worksheet 1

Name	Assessment	Class period
Date	Eye color of organism	
1. What is the transcribed seque	ence? (DNA to RNA)	
2. What is the translated sequen	ce? (RNA to protein)	
Go to NCBI GenBank, <u>protein</u> BL questions:	AST. Search the protein sequence and answer the	following
3. What are the first three prote	ins that come up?	
column). What is the Query sequ	e of the description rows with the name of the pro uence and the Subject of the protein?	
or <a href="https://www.ebi.ac.uk/interp">https://www.ebi.ac.uk/interp</a>	hat is the main function of this gene? Tip: use www.ro/entry/InterPro/#table to learn more about the urce to find information about proteins.	
6. In these searches, there are lil definition.	kely new vocabulary words. List three of them and	provide the



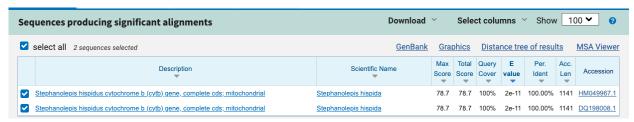
### **Orange species:**



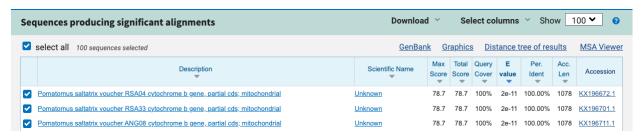
#### **Yellow species:**



# **Light Green species:**



# **Dark Green species:**



#### **Dark Blue species:**