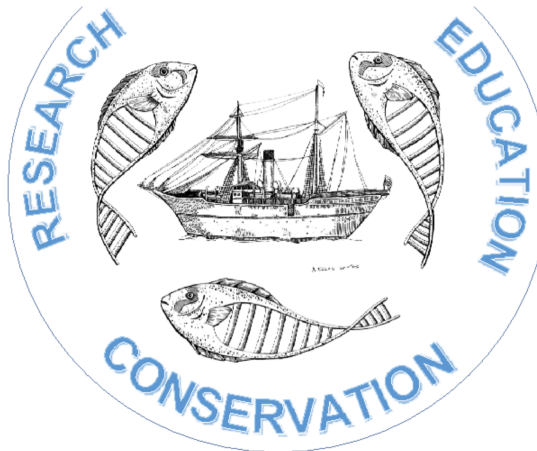


Assembly Quality

README.md

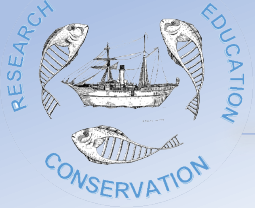
Welcome to the 2022 PIRE Omics Workshop!

The Philippines PIRE Project



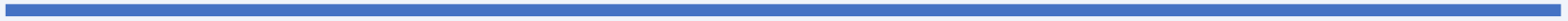
Dr. Eric Garcia
Postdoc Philippines PIRE Project

July 5th, 2022
Silliman University

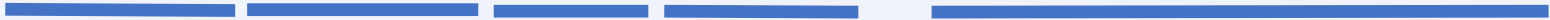


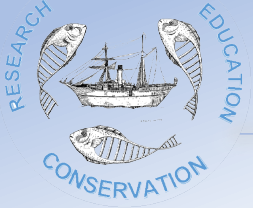
Assembly Quality

genome

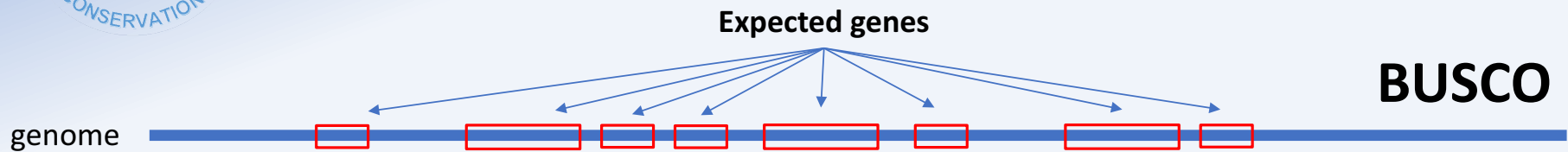


assembly

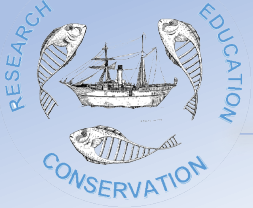




Assembly Quality



Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly



Assembly Quality

BUSCO

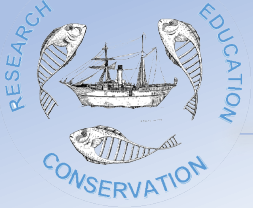
genome



assembly

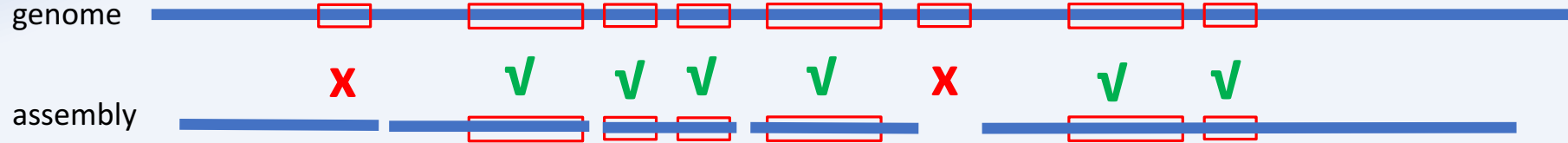


Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly

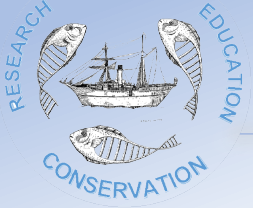


Assembly Quality

BUSCO



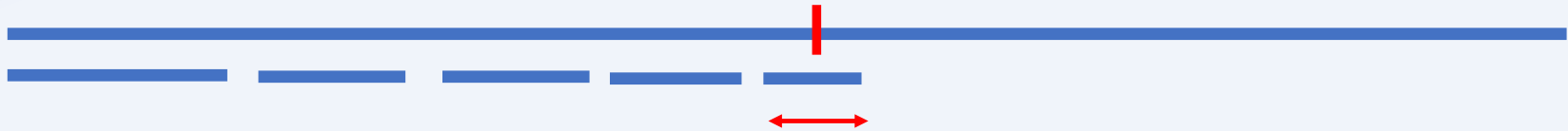
Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly



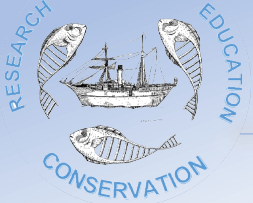
Assembly Quality

N50

genome
assembly



Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly
2nd	N50	Bigger is better	Lenght of the smaller contig from the set of contigs needed to reach half of your assembly

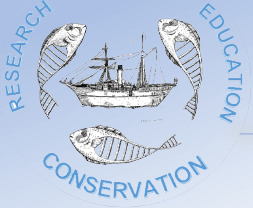


Assembly Quality

% Genome Size Completeness



Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly
2nd	N50	Bigger is better	Length of the smaller contig from the set of contigs needed to reach half of your assembly
3rd	Genome size completeness	Bigger is better	Length of assembly divided by estimated genome length

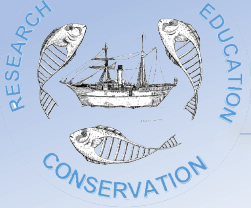


Assembly Quality

% Genome Size Completeness



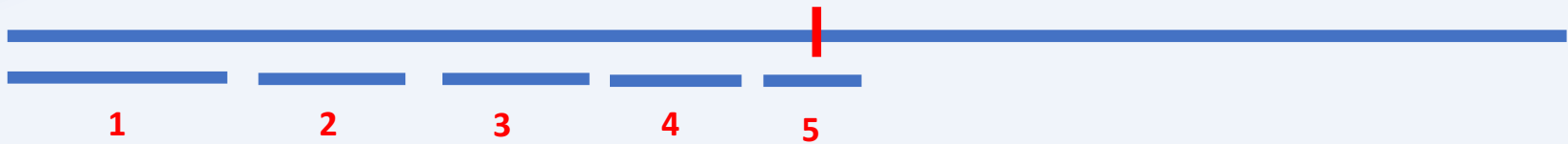
Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly
2nd	N50	Bigger is better	Length of the smaller contig from the set of contigs needed to reach half of your assembly
3rd	Genome size completeness	Bigger is better	Length of assembly divided by estimated genome length



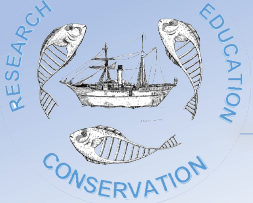
Assembly Quality

L50

genome
assembly



Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly
2nd	N50	Bigger is better	Length of the smaller contig from the set of contigs needed to reach half of your assembly
3rd	Genome size completeness	Bigger is better	Length of assembly divided by estimated genome length
4th	L50	Smaller is better	Number of contigs needed to reach half of your assembly

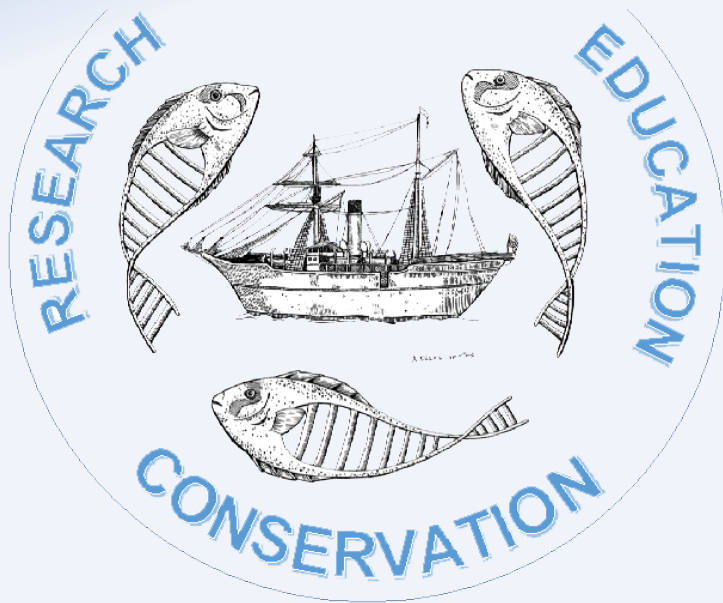


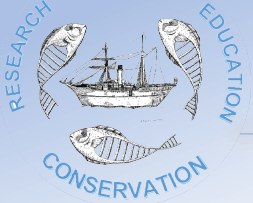
Assembly Quality



Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly
2nd	N50	Bigger is better	Lenght of the smaller contig from the set of contigs needed to reach half of your assembly
3rd	Genome size completeness	Bigger is better	Lenght of assembly divided by estimated genome lenght
4th	L50	Smaller is better	Number of contigs needed to reach half of your assembly
5th	Largest contig	Bigger is better	Lenght of largest contig

The Philippines PIRE Project





Assembly Quality

Importance	Metric	Direction	Description
1st	BUSCO	Bigger is better	% of expected genes observed in your assembly
2nd	N50	Bigger is better	Lenght of the smaller contig from the set of contigs needed to reach half of your assembly
3rd	Genome size completeness	Bigger is better	Lenght of assembly divided by estimated genome lenght
4th	L50	Smaller is better	Number of contigs needed to reach half of your assembly
5th	Largest contig	Bigger is better	Lenght of largest contig