

Suggested research topics

Winter semester of the academic year 2019/2020

Course name in Arabic: وراثه وتربية الأحياء المائية
Course name in English: Aquatic animals Genetics and Breeding
Professor Dr.: Zizy I. Elbially
Level: Two
Department: Aquaculture & Fish processing and Biotechnology

No.	Research title	Research items
1	Classical genetics	1- Definition 2- History 3- Examples
2	Microbial genetics	1- Definition 2- History 3- Applications
3	Population genetics	1- Definition 2- History 3- Applications
4	Cytogenetics	1- Definition 2- History 3- Applications in medicine
5	Molecular genetics	1- Definition 2- History 3- Applications
6	Behavioral genetics	1- Definition 2- Applications in medicine 3- Effect of genes on behavior
7	Genomics	1- Definition 2- History 3- Applications
8	Epigenetics	1- Definition 2- History 3- Applications
9	RNA processing	1- Definition 2- Explain process of editing 3- Importance
10	Alternative splicing of RNA	1- Definition 2- Importance 3- Examples
11	Operon system in Prokaryotes	1- Definition 2- Importance in Bacteria 3- Examples
12	Cellular Defense Hypothesis in bacteria	1- Definition 2- Explain the process 3- Importance
13	Restriction Enzymes	1- Definition 2- Source of enzymes 3- Applications in molecular biology

Course Instructor:

Name: Dr : Zizy I. Elbially

Signature: Dr : Zizy I. Elbially