



Suggested research topics

Winter semester of the academic year 2019/2020

الأمراض والسموم التي تنتقل بواسطة الطعام:Course name in Arabic					
Course name i	n English: Food Borne Diseases and Toxicology				
Professor Dr.:	Ibrahim Ibrahim Al-Hawary				
Level:	Third				
Department: F	Fish Processing and Biotechnology				





No	Research title	Research items
1	Infection Bacterial food poisoning	 Sources of bacterial contamination in fish and fish products Types of bacteria food Infection Toxico -Infection bacteria Organoleptic properties of spoiled fish due to bacteria Prevention and control
2	Intoxication Bacterial food poisoning	 Sources of bacterial contamination in fish and fish products Types of bacteria food intoxication Toxico -Infection bacteria Organoleptic properties of spoiled fish due to bacteria Prevention and control
3	Fish borne mycotoxins	 What are mycotoxins Impact of mycotoxins on fish The risk of fish and fish products contamination with mycotoxins on human health Strategy to decrease mycotoxins load on fish How to protect human from mycotoxins residues
4	Food borne viruses	 Types of food borne viruses Effect of food borne viruses on human health Methods for detection of viruses in food and infected people Strategies to prevent and protect human from infection with food borne viruses
5	Fish borne parasites	 Main types of parasites infecting fish Types of zoonotic parasites infecting human from fish and fish products Preventive measures to protect human from fish borne parasites Fast methods for detection of parasites in fish and infected people
6	Potential Food Poisoning toxins in seafoods	 Types of Potential Food Poisoning toxins in sea foods Corelation between Potential Food Poisoning and fish Main types of Potential Food Poisoning bacterial toxins involved in seafoods Effects of Potential Food Poisoning toxins on human health How to protect and prevent human from Potential Food Poisoning toxins exposure





	Marine biotoxins in	1- Main types of marine biotoxins
		2- Marine biotoxins effects on human health
7		3- Prevention and control of marine biotoxins
	seafoods	4- What should I do If you have been exposed to marine
		biotoxins
		1- Antinutrients definitions
		2- Types of Antinutritive factors
8	Antinutrients	3- Top Antinutrients to avoid
		4- Disabling antinutrients
		5- The prevention of food adulteration
		1- Main types of antimicrobials used in aquaculture
		2- Occurrence of antimicrobial residues in fish and fish
9	Antimicrobials residues	products
9	in fish	3- Effects of antimicrobial residues on human health
		4- How to elucidate antimicrobial residues in fish and
		human
		1- Effects of pesticides on fish
	Pasticidas: Tovicology	2- Main types of pesticides residues in fish and fish
10	Pesticides: Toxicology and residues in fish	products
		3- Effects of pesticides residues on human health
		4- How to protect human from pesticides residues
		1- Uses of hormones in aquaculture
	Hormone residues in	2- Main types of hormone residues in fish and fish products
11		3- Effects of hormone residues on fish, environment and
11	fish and Fish products	human
		4- Methods for detection of hormone residues in fish and
		people
		1- Food Irradiation concept and benefits
		2- How does food irradiation done
12	Food Irradiation	3- Types of food irradiation
		4- Advantages and disadvantages of food irradiation
		5- Most common irradiated food all over the world
	Disinfection and Sterilization	1- Types of Disinfectants and Sanitizer
		2- Disinfection and Sterilization concept and mechanism
		3- Natural products used as disinfectants at homes
13		_
		4- Most safer Disinfectants and sterilizers used for
		personal hygiene
		5- Most common Disinfectants and sterilizers used in
		industry, health cares, laboratories and homes
		madding, module cures, modules and nomes





14		1- What are PCBs and Dixoins and their properties	
	Polychlorinated	2- Uses and Sources of PCBs and Dixoins	
	biphenyls (PCBs) and	3- Effect of PCBs and Dixoins on fish and human	
	Dioxnis residues in fish	4- How to control accumulation of PCBs and Dixoins i	in
		fish and human	
15	Heavy Metals residues in Fish	1- Main types of heavy metals released in aquaculture	
		2- Heavy metals toxicity on fish	
		3- Effects of heavy metals on human health	
		4- How to control heavy metals residues in fish , fish	
		products and human	

Course Instructor:

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