Kafrelsheikh University
Faculty of veterinary medicine
Department of food control
Subject :Milk,eggs &their products
hygiene and fats&oils 2<sup>nd</sup> semseter
Code: 4<sup>th</sup> year student





# **Research subjects**

#### 1- Quality of table eggs

- a- Definition of egg quality
- b- Microbiological quality
- c- Chemical quality
- d- Detection of egg quality
- e- Sources of contamination and prevention methods
- f- Egg defenses

## 2- Good Manufacturing Practices and cheese quality

- a- What GMP means
- b- Objectives of GMP
- c- GMP starter cultures ·
- d- GMP rennet: production, storage, use ·
- e- GMP additions of rennet to the milk and curd ·
- f- GMP salting of curd ·
- g- GMP product storage and transport ·
- h- GMP direct sale
- i- Personnel hygiene
- j- Equipment hygiene

## 3- How to implement HACCP system in dairy factories.

- a- Definition of HACCP system
- b- Principles of HACCP system
- c- Write a model of implementation of the system in a dairy factory.
- d- Importance of the system

## 4- Salmonella food poisoning in Egypt: Statistics, Problems and Solutions.

- a- Definition of food poisoning
- b- Characteristics of the organism and its symptoms
- c- Optimum conditions for growth of the organism in food
- d- Statistics about the incidence of Salmonella food poisoning in different dairy products in Egypt
- e- High risk foods associated with Salmonella food poisoning.
- f- Rapid methods for detection
- g- Prevention and control

## 5- Innovative technologies for a sustainable dairy industry

- a- Definition, aim and importance of sustainable dairy technology
- b- Overview of recent innovations in dairy technology.

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c- Give an Example in detail

## 6- Impacts of subclinical mastitis on dairy industry

- a- Definition and causes of subclinical mastitis
- b- Effects of subclinical mastitis on public health, milk composition and dairy products
- c- Detection and control of subclinical mastitis

# 7- Probiotic dairy products as functional foods

- a- Definition, types and characters of probiotics
- b- Health effects of probiotics
- b- Definition, types and sensory properties of functional dairy products

## 8- Role of food technologies to obtain safe food

- a- Using temperature for food preservation
- b- Aim of different milk heat treatment processes
- c- Influence of heat treatment on milk
- d- Alternative processes for heat treatment

#### 9- Defects of butter fat rich products

- a- Types and nature of butter fat rich products
- b- Major control points during manufacture of butter fat rich products
- c- Physico-chemical changes associated with processing
- d- Technological, microbiological hazards and spoilage

# 10-Butter is comparatively stable product microbiologically

- a- Nature of butter
- b- Sources of microorganisms in butter
- c- Microbial load of butter
- d- Microbiological hazard

With best wishes Staff members of food control department

Head of department

Prof. Dr. Azza M.M. Deeb

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