UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Tirocinio 1

2425-1-I0302D042

Aims

The student, followed by internship assistants and/or tutors, during the internship must:

1. Enter the laboratory context and learn to recognize the role and functions of the different professionals who make up the working group,
2. Learn and use the safety and individual protection rules and the rules for respecting privacy
3. Learn the rules for identifying samples, their suitability criteria and acceptance methods
4. Learn the preanalytical sample treatments required for each diagnostic test
5. Learn reagent management: knowledge of recovery methods, respect for temporal stability, knowledge of conservation methods, management of warehouse stocks
6. Acquire technical skills regarding the use of pro-pipettes, pipettes, centrifuges, balances, microscopes, chemical and biological hoods
7. Learn how to conserve biological samples already analyzed
8. Learn the methods of waste collection and separate disposal

Contents

During the first year internship the student learns the rules for protecting himself and the work group, the privacy legislation and the rules that regulate behavior within the Laboratory and more generally within the host company. Accompanied by assistants and/or internship tutors, he learns the activities associated with the pre-analytical phase (collection, identification, conservation, transport and treatment of biological samples); finally, it acquires the techniques for using the basic laboratory instruments, the preparation and conservation of reagents and the correct management of waste

Detailed program

1. Safety regulations and individual and collective protection devices
2. Rules for respecting privacy.
3. Identification of biological samples, evaluation of their suitability and acceptance.
4. Pre-analytical treatment of biological samples.
5. Preparation of the reagents for the analytical phase with particular attention to the knowledge of the recovery methods, the temporal validity, the conservation methods, the management of warehouse stocks.
6. Use of pipettes, pro-pipettes, centrifuges, analytical balances, microscopes, chemical and biological hoods.
7. Method of conservation and archiving of biological samples already analyzed.
8. Methods of waste collection and separate disposal.

Prerequisites

Teaching form

Practical professionalizing activitie

Textbook and teaching resource

The teaching material will be provided during the practical activities

Semester

Second semester first year

Assessment method

1. Preparation of a written report by the student; the report must represent a moment of reflective re-elaboration of the student's experience
2. Compilation of evaluation forms by tutors and internship assistants
3. Oral interview with questions relating to the report written by the student and the practical activity carried out during the internship
   The final rating represents the average of the three ratings

Office hours

By appointment required by mail.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING