UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Journal Club in Laboratory Medicine 2

2627-3-I0302D041

Aims

Knowledge of improvements in the Laboratory Medicine research field, regarding methodologies and clinical applications
understanding and using the main resources for bibliography and scientific literature
DD1 – Dublin Descriptor 1:
The course provides in-depth knowledge and understanding of the various types of scientific literature, enabling students to approach the search, comprehension, and interpretation of scientific literature in a logical and informed manner:
-Terminology: defining the meaning of different types of scientific publications, conceptual and structural differences (original articles, reviews, book chapters, commentaries, editorials).
-Methodologies: highlighting the critical aspects of current types of articles and the kind of information they convey (e.g., original articles provide new findings but often lack a broader and more descriptive view).
-Data analysis: guidance in selecting the appropriate type of literature for one's specific purpose. Ability to distinguish which type to choose depending on the research goal (e.g., literature useful for writing a thesis).

DD2 – Dublin Descriptor 2:
Through group work focused on reading and writing parts of scientific articles, the course enables students to apply the theoretical training acquired in practical contexts related to writing their thesis and presenting their work. Specifically, the course allows students to:
-Select relevant articles through search engines using keywords.
-Read and understand the content of a scientific article and simulate writing an abstract summarizing the article’s content.
-Present the selected work following structured formats based on the timeline currently required for thesis presentation.

DD3 – Dublin Descriptor 3:
The course content, delivered through lectures and group activities, helps students develop critical thinking skills, allowing them to understand, write, and present scientific work, whether related to their own lab research or third-party activities. Specifically, students will be able to:

-Evaluate and interpret experimental data obtained or sourced from scientific literature.
-Formulate scientific opinions on specific issues.
-Appropriately present the work carried out.

DD4 – Dublin Descriptor 4:
Lectures and group activities enhance the ability to effectively communicate complex scientific results, both in written and oral form, in academic and outreach contexts. Students learn how to present data derived from biomedical laboratory diagnostic techniques to colleagues, experts, and non-experts in a clear and coherent manner, using multimedia tools and scientific writing techniques.

DD5 – Dublin Descriptor 5:
Through lectures, textbook study, and the analysis of scientific articles, students are able to:
-Learn to work independently.
-Collaborate within a team.
-Understand texts related to technologies pertinent to their thesis project.
-Deepen their understanding of issues through specific bibliographic research.
-Use the necessary tools to access and utilize scientific literature in English and scientific databases.
-Select available information and assess its reliability for the purpose of continuously updating their knowledge.

Contents

To provide the students with most significant innovation in laboratory medicine
Study focused on scientific literature.

Detailed program

New methodologies, techniques, tools and applications in laboratory medicine.

- general difference between scientific papers, rewiews, letters
- difference between scientific journals (Impact factor and content organization)
- scientifica paper sections: abstract, methods, results, discussion
- how to insert bibliografy in different scientific products (papers, thesis, fellowships)

Prerequisites

Teaching form

The course of total 16 hours is divided into 4 hours of in person learning lessons and 12 hours of interactive lessons. The students will be offered interactive lessons in which they will be able to present critical review of an article from scientific journal in the classrom. The article will be suggested by the teacher. Furhermore, they will improve their ability of scientific writing.

Textbook and teaching resource

The Teacher will provide educational materials

Semester

Second semester

Assessment method

Attendance

Office hours

By appointment required by mail.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING