

Science in Medicine: bridging research and practice

Introduction

The goal of this elective is to identify through examples the research that yields basic biological concepts underlying modern biomedical knowledge. The purpose will be to confront misconceptions about crucial biological ideas and their production, and to cultivate an interest in science and an understanding of how we do science and how science relates to Medicine.

The course will provide medical students with basic methodological approaches used in experimental research related to medicine (formulating questions, creating a hypothesis, understanding a research plan and analyzing the obtained evidence to either support the hypothesis or to create a new hypothesis).

Selected Nobel Prize in Medicine Lectures will help the students to understand how current accepted knowledge in biomedicine has been or it is produced. It will also help them to explore how ideas in Medicine develop and how these are linked to the development of healthcare technology.

Learning Objectives

In this module the students are expected to:

1. Understand the way biomedical knowledge is created through critical analysis of Nobel Prize Lectures.
2. Identify the body of knowledge underlying new discoveries in medical sciences.
3. Familiarize with basic methodological approaches used in experimental research related to medicine
4. Understand how science is made and how science relates to medicine
5. Confront misconceptions about crucial biological ideas and their production.
6. Cultivate an interest in science and epistemology in medicine.

ECTS Credits

5



Universitat de Girona
Facultat de Medicina

Coordinator
Guillermo Pérez