

**INTER AMERICAN UNIVERSITY OF PUERTO RICO  
METROPOLITAN CAMPUS  
SCHOOL OF SCIENCE AND TECHNOLOGY  
NATURAL SCIENCE DEPARTMENT  
MASTER'S IN SCIENCE IN MOLECULAR MICROBIOLOGY**

**SYLLABUS**

**I. GENERAL INFORMATION**

Course Title	:	Thesis
Code and number	:	MOMI 6991
Credits	:	2
Academic term	:	
Instructor	:	
Office hours and location	:	
Office telephone	:	
E-mail	:	

**II. DESCRIPTION**

Planning, design, and preparation of the research proposal of the thesis on a topic relevant to molecular microbiology. Approval of the proposal by the thesis committee. The student will enroll as many times as necessary. Grade: P/TP/NP.

**III. OBJETIVES**

**The MOMI 6990 course is expected to contribute to the development of the following competencies of the graduate Master of Science Program in Molecular Microbiology:**

- Appreciate the importance of omics disciplines in modern microbiology.
- Evaluate scientific information from diverse sources.
- Apply molecular microbiology methodologies in scientific research aimed at solving problems.
- Value the importance of ethical standards related to scientific conduct in research, respect for confidentiality and the defense of intellectual property.

**Competencies of the student profile enrolled in this course:**

1. Apply published or preliminary research results in the investigation of situations or problems of interest in molecular microbiology.
2. Review relevant scientific literature to study their problem of interest.
3. Propose a valid methodology to investigate a situation or problem.

4. Execute appropriate analytical and experimental techniques to scrutinize the subject of interest until valid and useful results are obtained to clarify the problem under study.
5. Present in written and publishable form a document that gathers in a thesis the most outstanding aspects of their research activities.
6. Defend successfully before the learning community of the Master of Science in Molecular Microbiology Program the most significant findings of their research.

#### **IV. CONTENT**

- A. Selection of the topic to be studied
  1. Identification of the topic.
  2. Initial review and determination of the validity of the topic, according to the variables established by the Thesis variables established by the Thesis Committee
- B. Analysis of reliable, pertinent, and applicable references for the topic of interest.
- C. Development of the literature review related to the topic of interest, following the established criteria and style.
  1. Critical reading of selected articles
  2. Synthesis of the material to be used as a reference for the research activities and in the writing work and in the oral presentation.

#### **V. LEARNING ACTIVITIES**

1. Bibliographic research
2. Oral presentations
3. Individual consultations with thesis advisor or colleagues and group consultations with laboratory colleagues and members of the Thesis Committee.
4. Proposal writing

#### **VI. EVALUATION**

The evaluation of the student's performance in this course will be governed by the agreements subscribed between the student, his/her thesis advisor and the Thesis Committee. Any difference in criteria between the parties will be dealt with by the Department Director.

#### **VII. SPECIAL NOTES**

##### **A. Auxiliary services or special needs**

All students who require auxiliary services or special assistance must request these at the beginning of the course or as soon as they know that they need them, through the proper registry, in the Office of Orientation with Sr. José Rodríguez.

##### **B. Honesty, fraud, and plagiarism**

Dishonesty, fraud, plagiarism and any other inappropriate behavior in relation to academic work constitutes major infractions sanctioned by the General Student Regulations. The major infractions, as stated in the General Student Regulations, may have as a consequence, suspension from the University for a definite period

greater than one year or the permanent expulsion from the University, among others sanctions.

### **C. Use of electronic devices**

Cellular telephones and any other electronic device that could interrupt the teaching and learning processes or alter the environment leading to academic excellence will be deactivated. Any urgent situation will be dealt with, as appropriate. The handling of electronic devices that allow students to access, store or send data during evaluations or examinations is prohibited.

### **D. Compliance with the Provisions of Title IX**

The Federal Higher Education Act, as amended, prohibits discrimination because of sex in any academic, educational, extracurricular, and athletic activity or in any other program or function, sponsored or controlled by a higher education institution, whether or not it is conducted within or outside the property of the institution, if the institution receives federal funds.

In harmony with the current federal regulation, in our academic unit an Assistant Coordinator of Title IX has been designated to offer assistance and orientation in relation to any alleged incident constituting discrimination because of sex or gender, sexual harassment or sexual aggression. The Assistant Coordinator, Sr. George Rivera, can be reached by phone at 787-250-1912, extension 2262 or 2147, or by e-mail [griverar@metro.inter.edu](mailto:griverar@metro.inter.edu).

The Normative Document titled Norms and Procedures to Deal with Alleged Violations of the Provisions of Title IX is the document that contains the institutional rules to direct any complaint that appears to be this type of allegation. This document is available in the Web site of Inter American University of Puerto Rico ([www.inter.edu](http://www.inter.edu)).

## **VIII. EDUCATIONAL RESOURCES**

No book required for this course

## **IX. BIBLIOGRAPHY**

Day RA y B Gastel. 2011. *How to write and publish a scientific paper*. ABC-CLIO, LLC, Santa Barbara, California.

Glasman-Deal H. 2009. *Science research writing for non-native speakers of English*. Imperial College Press, London.

Lindsay DR. 2011. *Scientific writing=thinking in words*. 2011. CSIRO Publishing, Collingswood VIC, Australia.

Schimmel J. 2012. *Writing science: How to write papers that get cited and proposals that get funded*. Oxford University Press, New York.