

**INTER AMERICAN UNIVERSITY OR PUERTO RICO  
METROPOLITAN CAMPUS  
NATURAL SCIENCES DEPARTMENT  
BIOMEDICAL SCIENCES PROGRAM**

**SYLLABUS**

**I. GENERAL INFORMATION**

Course Title: Seminar in Molecular Microbiology  
Code and Number: MOMI 6310  
Credits : One (1)  
Academic Term: 20212-13  
Professor:  
Office Hours:  
Academic counseling:  
E-mail:

**II. DESCRIPTION**

Critical analysis of peer-reviewed scientific literature relevant to molecular microbiology. Application of the methodology for adequate scientific oral and written presentation of a topic selected by the student in the molecular microbiology discipline.

**III. OBJECTIVES**

The MOMI 6310 course is expected to contribute to the development of the following competencies of the graduate of the Master of Science Program in Molecular Microbiology:

1. Appreciate the importance of omics disciplines in modern microbiology.
2. Evaluate scientific information from various sources.
3. Argue ideas and research results of the scientific community both oral and written.
4. Assess the importance of ethical standards related to scientific conduct in research.
5. Show understanding and respect for the confidentiality of intellectual property.

At the end of the course, it is expected that the graduate will be able to:

1. Critically analyze research articles in molecular microbiology in terms of its reliability, relevance and applicability to its topic of interest.

2. Effectively apply the writing style established by the American Society for Microbiology (ASM).
3. Present a written and oral review of the literature on a topic of his interest in molecular microbiology.

#### **IV. THEMATIC CONTENT**

1. Selection of the topic to be studied
2. Topic identification
3. Initial review and determination of the topic's validity, according to the guidelines established by the professor
4. Analysis of reliable, pertinent and applicable references to the study of the topic of interest
5. Development of a literature review related to your topic of interest following the criteria and the established style, stipulated in the rubric discussed by the professor.
6. Critical reading of selected articles.
7. Synthesis of the material to be used as a reference in the written work and in the oral presentation.
8. Production of a written document that includes the outstanding aspects of the articles reviewed to generate a literature review that applies the standards ASM style.
9. Logical and coherent organization of the content to be presented orally before the learning community of the Master of Science Program in Microbiology Molecular.
10. Presentation of the most relevant components on the completed research.

#### **V. ACTIVITIES**

1. Bibliographic research
2. Conferences
3. Individual consultations
4. Independent reading
5. Oral presentations

#### **VI. EVALUATION**

Component	Puntos	Percentage
Evaluation of presentation skills	50-100	25%
Attendance	50-100	25%
Individual Presentation	100	50%

## **VI. SPECIAL NOTES**

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

Any student who requires auxiliary services or special assistance must request them at the beginning of the course or as soon as he acquires knowledge that he needs them, through the corresponding registration, in the Office of Services to Students with Disabilities, in the University Orientation Program.

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

Dishonesty, fraud, plagiarism and any other inappropriate behavior in relation to academic work constitute major infractions, sanctioned by the General Student Regulations. Major infractions, as provided for in this Regulation, may result in the suspension of the University for a defined period of more than one year or the permanent expulsion from the University, among other sanctions.

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

Cell phones and any other electronic device that could interrupt teaching and learning processes or alter the environment conducive to academic excellence will be deactivated. Pressing situations will be addressed as appropriate. The handling of electronic devices that allow access, storage or sending data during evaluations or exams is prohibited.

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

The Federal Higher Education Act, as amended, prohibits discrimination on the basis of sex in any academic, educational, extracurricular, athletic, or any other program or employment, sponsored or controlled by an institution of higher education regardless of whether it is conducted on or off the institution's premises, whether the institution receives federal funds.

In accordance with current federal regulations, our academic unit has appointed a Title IX Assistant Coordinator who will provide assistance and guidance regarding any alleged incident constituting discrimination based on sex or gender, sexual harassment or sexual assault. Assistant Coordinator Mr. George Rivera can be reached at 787-250-1912, extension 2262 or 2147, or email [griverar@metro.inter.edu](mailto:griverar@metro.inter.edu).

The Normative Document entitled Norms and Procedures to Address Alleged Violations of the Provisions of Title IX is the document that contains the institutional rules to channel any complaint that is filed based on this type of allegation. This document is available on the website of the Inter-American University of Puerto Rico ([www.inter.edu](http://www.inter.edu)).

## VII. EDUCATIONAL RESOURCES

1. TextBook - There will be no textbook.
2. Further Reading
  - a. Dixon B. 2009. Resounding Banalities, p 309–313. *In Animalcules*. ASM Press, Washington, DC. doi: 10.1128/9781555817442.ch66
  - b. Roth J. 2011. Giving a Seminar: Suggestions for Graduate Students, p 9–22. *In* Maloy S, Hughes K, Casadesús J (ed), *The Lure of Bacterial Genetics*. ASM Press, Washington, DC. doi: 10.1128/9781555816810.ch2
3. Electronic Resources
  - a. <http://mibr.asm.org/site/misc/ifora.xhtml>  
<http://www.scrip.org/journal/CategoryOfJournal.aspx?CategoryID=1>  
<http://www.elsevier.com/journal-authors/publishing-process>  
<http://ethics.elsevier.com/>
4. BIBLIOGRAPHY
  - a. Alley M. 2013. *The craft of scientific presentations: Critical steps to succeed and critical errors to avoid*. Springer, New York.
  - b. Day RA and B Gastel. 2011. *How to write and publish a scientific paper*. ABC-CLIO, LLC, Santa Barbara, California.
  - c. Glasman-Deal H. 2009. *Science research writing for non-native speakers of English*. Imperial College Press, London.
  - d. Lindsay DR. 2011. *Scientific writing = thinking in words*. 2011. CSIRO Publishing, Collingswood VIC, Australia.
  - e. Schimel J. 2012. *Writing science: How to write papers that get cited and proposals that get funded*. Oxford University Press, New York.