



MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE GOIÁS
INSTITUTO DE CIÊNCIAS BIOLÓGICAS
**PROGRAMA DE PÓS-GRADUAÇÃO EM GENÉTICA E BIOLOGIA
MOLECULAR**

DISCIPLINA: *Tópicos Especiais em Biologia Molecular: Functional studies applied to pathogenic fungi* COORDENADORES: Clayton Luiz Borges, Alexandre Melo Bailão e Mirelle Garcia Silva Bailão.

Docentes Convidados: Dr. Orville Hernandez Ruiz, Universidad de Antioquia, Colômbia e Dra. Larissa Fernandes Matos, Universidade de Brasília, Brasil.

CARGA HORÁRIA POR DOCENTE: Clayton 8h, Alexandre 4h e Mirelle 4h.
Nº DE CRÉDITOS: 01

Course Syllabus

This course will address molecular tools used in the functional study of human pathogenic fungi. Cutting-edge topics such as CrispR/Cas9, gene deletion, silencing, and accessory techniques for functional studies in human pathogenic fungi will be addressed.

OBJECTIVES

General

Provide students with the basic and applied fundamentals of molecular bases related to functional studies in human pathogenic fungi. In addition, it aims to develop the skills and abilities of students to the contents covered in class.

Specifics

- Provide fundamental knowledge in the field of applied genetic manipulation;
- Develop the student's critical sense about the topics addressed and relevant to the discipline;
- Put the student in contact with researchers with international experience and cutting-edge literature related to the topics covered in the discipline.

PROGRAM

Date	TOPIC	Researcher
25/10/2022	CRISPR/CAS9 in study of pathogenic fungi	Orville Hernandez Ruiz
25/10/2022	Tools for genetic manipulation and functional studies in pathogenic fungi	Larissa Fernandes Matos
01/11/2022	Student's seminars	Clayton, Alexandre e Mirelle
03/11/2022	Student's seminars	Clayton, Alexandre e Mirelle

REFERENCES

- Recent articles published in journals of high international circulation within the topics covered in the discipline: www.pubmed.com