

UNIVERSIDADE FEDERAL DE GOIÁS
INSTITUTO DE PATOLOGIA TROPICAL E SAÚDE PÚBLICA
PROGRAMA DE PÓS-GRADUAÇÃO EM BIOLOGIA DA RELAÇÃO PARASITO-HOSPEDEIRO

PLANO DE ENSINO

Disciplina: Módulos Especiais em Microbiologia, Parasitologia e Imunologia (Special Modules in Microbiology, Parasitology and Immunology) Topics in Insect Mycology	Código: BRPH0015	
CHA total: 16 h Número de créditos: 1	CHA teórica: 12 h	CHA prática: 4 h
Ementa: The discipline will focus on multiple important topics in the biology of insect-pathogenic fungi that are important in general and of immediately applicability on the biodiversity, collection, preservation, characterization, production, application and use of fungal pathogens affecting pest insects. The presentations will focus on fungal pathogens of vectors but will not be limited exclusively to fungi affecting these arthropods.		
Methods: This set of topics (total of 16 hours corresponding to one credit) will be presented through seminar-type lectures and group discussions and demonstration in the field (to be presented in English) using PowerPoint presentations and illustrative material drawn on chalk- or whiteboard during presentations and discussions. Students will be expected (a) to present (up to 15 minutes each) their specific research projects in English and (b) to participate actively in the classes by asking questions and joining in general discussions of the topics being considered. This discipline will be offered during the visit to IPTSP by RA Humber in March 2026.		
Main objective: To provide theoretical and practical training on entomopathogenic fungi.		
Specific objectives: Emphasize on their collection, isolation, characterization, systematics, activity in insect hosts and use in sustainable pest management. Training of scientific writing and presenting skills in English		
Basic bibliography <i>The Ecology of Fungal Entomopathogens</i> (2010); edited by Roy, Vega, Chandler, Goettel, Pell & Wajnberg. <i>Pequeno Manual sobre Fungos Entomopatogênicos</i> ; Alves & Faria (2010); available freely online). https://www.infoteca.cnptia.embrapa.br/infoteca/bitstream/doc/884758/1/doc286.pdf		
Complementary bibliography <i>Genetics and Molecular Biology of Entomopathogenic Fungi</i> (2016); edited by Brian Lovett & Raymond J. St. Leger (Elsevier) <i>Use of Entomopathogenic Fungi in Biological Pest Management</i> (2007); edited by S. Ekesi & N.K. Maniania		

PROGRAMA DE DISCIPLINA

Discipline: Módulos Especiais em Microbiologia, Parasitologia e Imunologia (Special Modules in Microbiology, Parasitology and Immunology) Topics in Insect Mycology	Código: BRPH0015	
Semester/Year: 01/2026		
Period of the discipline: March 02-06, 2026		
Schedules: the whole week Theoretic classes: 12 h Practical classes: 4 h		
Coordinating Professor: Wolf Christian Luz, IPTSP, UFG, wolf@ufg.br Collaborating professor: Juscelino Rodrigues, IPTSP, UFG, juscelinorf@ufg.br Technical support: Nathália Alemeida de Sousa Gândara		
Methods: This set of topics (total of 16 hours corresponding to one credit) will be presented through seminar-type lectures and group discussions and demonstration in the field (to be presented in English) using PowerPoint presentations and illustrative material drawn on chalk- or whiteboard during presentations and discussions. Students will be expected (a) to present (up to 15 minutes each) their specific research projects in English and (b) to participate actively in the classes by asking questions and joining in general discussions of the topics being considered. This discipline will be offered during the visit to IPTSP by RA Humber in March 2026.		
Evaluation: The evaluation will be based on attendance, and presentations including the participation in discussions during the sessions. Good working ability to read and to understand scientific texts in English, and a willingness to ask questions and to discuss (in English if possible, or in Portuguese if unable to do so) are all essential. Academic performance will be expressed using the following grades: A (very good, approved and entitled to credit); B (Good, approved and entitled to credit); C (Regular, approved and entitled to credit); D (Insufficient, failed, no right to credit), as described in Article 35 of CEPEC Resolution No. 1492. A student who does not achieve eighty-five percent (85%) attendance in the subject or activity will fail, and this will be recorded in their academic transcript under the designation "RF".		
Data (horário)	Lesson topic	Professors
2/3 9-12 h (T) 14-17 h (T)	Presentation and discussion of research projects by participants Group I Group II	Richard Humber Luz, Rodrigues
3/3 9-12 h (T)	Collection, isolation and preservation of cultures and specimens Host specificity, infection processes, and pathology	Richard Humber Luz, Rodrigues
4/3 9-13 h (P) 14-18 h (P)	Field training on entomopathogenic fungi Processing of material in the laboratory (IPTSP)	Richard Humber Luz, Rodrigues
5/3 9-12 h (T)	Sexuality, sporulation, dispersal, and persistence Taxonomy and systematics of fungal entomopathogens	Richard Humber Luz, Rodrigues

6/3 9-12 h (T)	Training on writing and presentation skills in English	Richard Humber Luz, Rodrigues

A handwritten signature consisting of a stylized 'L' or 'J' shape above the word 'luz'.

Wolf Christian Luz
Coordinator of the discipline