

The evolution of host - parasite interactions

Fall term 2022 (Sept. – Dec.)

updated 16. Sept. 2022

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http://www.evolution.unibas.ch/teaching/host_parasite/host_parasite_fall21.htm

Course structure

- Weekly online lectures in Fall term:
 - Thursday 8h15 – 10h
 - Some lectures will be via zoom, other in person (we will try to provide recordings of the video lectures)
- In some lectures papers maybe discussed
- Essay: Write an essay about the evolution of a disease

Essay

Write an essay about the evolution of a disease

- Find a host – parasite system you find interesting. Any system is possible, but every student should write about a different system! (tell me by 13. Oct. 2022)
- Find articles about the evolution and/or population genetics of this host-parasite system.
- Write an essay about the evolution of the disease
- maximum 4 pages, english, review style, cite literature
- Essays will be checked for plagiarism!
- Deadline: 24. Nov. 2022 at 10h00 (submit .pdf by e-mail to D. Ebert) & deposit a printed copy in the post-box of D. Ebert in the Vesalianum!

Exam

- The exam covers all material of the course.
- Mixed style of questions.
- The exam counts 2/3 of the grade.
- Date of exam: 8. or 15. December 2022.

Credit points and working time

- 2 hours a week makes 2 credit point
- To compensate for the time working on the Essay we skip two dates. These dates will be discussed in the course.
- Creditpoints:
 - participation in course
 - passing grade on the essay (1/3 of total grade)
 - passing the final exam (2/3)

Preliminary course structure (so far) (as of 16. Sept. 2022)

Date	Lecturer	Topic (approximate dates)	Dieter here	Louis here
22/09/2022	Dieter Ebert	Introduction & basic concept	yes	
29/09/2022	Dieter Ebert	The evolution of host resistance	yes	
06/10/2022	Dieter Ebert	The evolution of drug resistance	yes	
13/10/2022	Louis Du Pasquier	The evolution of immune systems I	(yes)	
20/10/2022	Louis Du Pasquier	The evolution of immune systems II	no	
27/10/2022	Louis Du Pasquier	The evolution of immune systems III	yes	
03/11/2022	Louis Du Pasquier	The evolution of immune systems VI	yes	
10/11/2022	Dieter Ebert	Evolution of virulence	yes	
17/11/2022	Dieter Ebert	Coevolution/ Myths in parasitology	yes	
24/11/2022	Dieter Ebert		no	
01/12/2022		Deadline essay!	no	
08/12/2022	Exam ?		(yes)	
15/12/2022	Exam ?		(yes)	