

Other Dissertation participants

PHT915 Júlia Cabrera I Cortada

Activity	Type of exam	Fixed subjects	Administrative office	ECTS points
NFYK10020E	Thesis		Niels Bohr Institutet	60

Contract No. 140623
Contract status Klar til godkendelse
Dissertation start 01.09.2023
Language engelsk
Open to public Ja
Annex open to public Ja
Externally prepared Nej
External partners
Residence abroad (months). Check local guidance 0
Hand in deadline
Hand in date

Title Discrete and stochastic modelling of interaction between virus and bacteria presenting lysis inhibition

Other information - Cf. local guidance The supervisor and the student will meet with a frequency of 1/2 weeks depending on how demanding the tasks of the projects are. The student will show progress on the meetings and the supervisor will give feedback and advice.

Statement of dissertation The aim of this Master's thesis project is make a discretization of a model that describes the evolution of a system where bacteria and phage T4 interact. After that, stochasticity would be added and an exploration of parameters would be performed to check if there are any cases in which the lysis inhibition of bacteria by phage T is not beneficial for the phage. If there is enough time, the results of the model could be compared with experimental results.

Supervisor name Administrative office Priority

Namiko Mitarai 1

Faculty / institution

Supervisor