

## Learning Agreement for Traineeships

*Other Work Placement*

### Details of the student

Full Name of the Student:			
E-mail:			
SENDING INSTITUTION:	University of Antwerp (B ANTWERP01)		
Faculty at the sending institution:	Faculty of Pharmaceutical, Biomedical and Veterinary Sciences		
Academic Year of the placement:	2020/2021		
Subject area:	Biomedical Sciences		
Study programme:	Ma Biomedical Sciences	Diploma year:	2021

### Research tutor at the University of Antwerp:

Full name:	Caljon, Guy, Laboratory for Microbiology, Parasitology and Hygiene (LMPH)		
Gender:	Male		
E-mail	Guy.Caljon@uantwerpen.be	Telephone:	+32652601

### International co-ordinator at the University of Antwerp

Full name:	<i>Melle Dewloo</i>		
E-mail	<i>melle.dewloo@uantwerpen.be</i>	Telephone:	<i>+32 3 2652004</i>

## Details of the proposed training programme abroad

<b>Country of the host institution / organization:</b>	Switzerland
<b>Host institution / organization:</b>	UNIVERSITÉ DE LAUSANNE
<b>Faculty / Department / Unit:</b>	-
<b>Address:</b>	chemin des Boveresses 155 1066 Epalinges switzerland

<b>Planned dates of start and end of the placement period:</b>	from 23.11.2020 until 12.06.2021 That is 6 months
<b>Weekly workdays:</b>	monday - friday
<b>Daily working hours (please note that the placement must be a full-time position):</b>	8,00
<b>Language(s) required for the placement:</b>	English

### Responsible for the training at the host institution / organization:

<b>Full name:</b>	Tacchini-Cottier, Fabienne		
<b>Function:</b>		<b>Gender:</b>	Male
<b>E-mail</b>	fabienne.tacchini-cottier@unil.ch	<b>Telephone:</b>	+41 21 692 5703

## Training details

Subject of the training period:	immune respons to infection with Leishmania protozoan parasites
Short description of the content of the training period/Research project	investigate and research the immune respons to infection with Leishmania, using the techniques described below
Knowledge, skills and competence to be acquired:	culture and isolation of myeloid immune cells, mouse handling, P2 laboratory practice, parasite culture, various cellular molecular and visualisation techniques including flow cytometry, NET quantification, Western blot and confocal microscopy
Detailed programme of the training period	<p>In vitro: The student will need to isolate bone-marrow derived macrophages and neutrophils from various KO mice, including Gsdmd (-/-), Caspase-1 (-/-), Caspase-11 (-/-) and NLRP1 (-/-). Neutrophils and macrophages will be subsequently infected with several Leishmania spp, and pyroptosis, neutrophil NET formation, parasite internalization and parasite killing will be assessed with the appropriate methods. The results obtained from these experiments will determine the involvement of the aforementioned inflammasomes and downstream effectors in the immune response against leishmania.</p> <p>In vivo: the same strains of KO mice will also be infected with Leishmania parasites, and lesion development, parasite load, and cytokine production will be assessed at several timepoints, to determine the type of immune response induced by the parasite.</p>
Tasks of the trainee:	The trainee will be expected to perform a literature review to become acquainted with the subject, wich will also aid in the preparation of the Master Thesis. Afterwards, the trainee will be trained in the techniques under supervision, aiming to eventually perform the experiments for the master thesis independently. At regular intervals, the trainee will present het work during research group meetings, wich will prepare her for the master thesis defense.
Monitoring and evaluation plan:	Monitoring will be done on a daily basis by the supervisor Michiel Goris, a PhD student. The PI, Fabienne Tacchini-Cottier, will provide evaluation and guidance in weekly meetings and during the presentations in research report meetings.

## Commitment of the three parties

By signing this document the student, the sending institution and the host organisation confirm that they will abide by the principles of the Quality Commitment for student placements set out in the document below.

<b>The Student</b>	<b>Date:</b> <b>Student's signature:</b>
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<b>The Sending Institution (Faculty)</b>	
We confirm that this proposed training programme agreement is approved.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
The placement is part of the curriculum.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
On satisfactory completion of the training programme the institution will  (please indicate how the placement will be recognised. There should at least be one positive answer):	- <b>award ECTS-credits</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, number of ECTS-credits: <i>42</i>
	- <b>record the training period in the Diploma Supplement</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	- <b>or, if not possible, record it in the student's Transcript of Records</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
The student will receive a financial support for his placement.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, amount monthly:
<b>Coordinator's name and function:</b> <i>administrative officer internationalisation</i>	<b>Date:</b> <b>Coordinators signature:</b> <i>Hele Devloo</i>  <b>Stamp:</b>

The <u>Host</u> Institution / Organization	
The student will receive a financial support for his placement:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, amount monthly:
The student will receive a contribution in kind for his placement:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, in form of:
The student is exempted from a (tuition) fee:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, the student will have to pay following fee:
The student can benefit from (student) facilities (accommodation, restaurant, library, ...)	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, what facilities:
Our International Office is aware that the student will spend the indicated mobility period at our institution / organization	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> We do not have an International Office
Name of the International Coordinator at your institution (if present)	
Responsible's name:	
Responsible's function:	
<p>We confirm that this proposed training programme is approved. On completion of the training programme the organisation will issue a certificate and a Transcript of Work to the student.</p>	<p><b>Date:</b></p> <p><b>Responsible's signature:</b></p>  <p><b>Stamp:</b></p>