

Info for external Research students of the Enard lab

Version 18.2.21 - Contact: enard@bio.lmu.de

Before starting

Check the guidelines for external theses for your study program (this is the link for the [MCB program](#) and here for the [Human Biology Master](#); if your study program has different rules please check

For me to decide whether I can be the internal supervisor for your research course (RC) I need the following:

- 1) Name and affiliation of the external supervisor (the PI (has to be habilitated/be a Prof. for the Human Biology Master program) and if appropriate also the name and affiliation of the direct supervisor (e.g. Ph, postdoc or similar)
- 2) Tentative Title and planned starting date
- 3) a brief outline of the project with timeline confirmed by the external supervisor (e.g. by email or signature)
- 4) if you do the special research module (3rd semester MCB - WP72), tell me which lecture you plan to go with the research module and with whom you plan to take the oral exam; I can easily take the oral exam if you take Human Genomics; if it is a different lecture we need to clarify whether it is possible

During RC

There is no need to contact me during your RC unless there is a problem (in particular with your supervisor). Then don't hesitate to contact me.

Protocol writing/handing in

- you need to hand in a 10-15 pages protocol
- please check with your internal supervisor which results/Aspects of your RC should be part of the protocol; focus on things that are actually needed for people following up on your results (i.e. the graduate student working on the project, the next RC student...); details on scripts, methods, reagents are often more important than lengthy introductions
- from my side the protocol need to include:
 - proper title page with title, name of student and supervisor(s), date
 - An abstract of ~ ½ page
 - Proper Figure (legends) reporting error bars, statistics and microscope scales
- Some papers and tips I found useful when writing theses of all kinds can be found [here](#)
- When you done, confirm with your supervisor that it is ok and then sent me the protocol as pdf by email and I check whether this is ok from my side



Lab seminar participation in the external group

Part of the RC is to participate in the normal lab seminar(s) of the external research group. For a normal RC, you need to a talk about your RC that will be graded (see below). For the Special Research Module of the MCB (WP72), it is up to the external supervisor whether you should give a talk or not. In any case this talk will not be graded. Presenting and answering questions about your work will be a part of the oral exam (see below).

Graded lab seminar talk

- Form, length and content are set by the external PI
- The seminar needs to be graded; let me know when it takes place; I'll see if I can attend it; if that's not possible your external supervisor needs to grade your presentation
- See diverse presenting tips [here](#)

Final information and completion of the RC (not WP 72)

- From you I need the following information via email:
 - Start and end date of RC
 - Requested ECTS
 - Final title of RC
 - Date of the seminar talk
 - Pdf of final protocol
- From your external supervisor I need the following information via email
 - Confirmation of the dates and the requested ECTS (12 ECTS RC requires 8 weeks of 40h/week working in the lab or equivalent time amount including attending the lab internal seminars)
 - Confirmation that he/she is ok with the protocol
 - Suggestion for a grade for the RC and the protocol itself, with a short (1-2 sentences) justification
 - Suggestion for a grade for the lab seminar presentation
- If I have all this I will sent the final grades and info to the examination office (With you in CC)



Final information for the WP72 RC

- From you I need the following information via email:
 - Start and end date of RC
 - Requested ECTS
 - Final title of RC
 - Date of the seminar talk
 - Pdf of final protocol
- From your external supervisor I need the following information via email
 - Confirmation of the dates and the requested ECTS (12 ECTS RC requires 8 weeks of 40h/week working in the lab or equivalent time amount including attending the lab internal seminars)
 - Confirmation that he/she is ok with the protocol
 - Suggestion for a grade for the RC and the protocol itself, with a short (1-2 sentences) justification
- If we have all this, we can arrange a date for the oral exam

Oral Exam for WP72

- Write me an email when and how (online or in presence (if possible)) you would like to take the exam and which lecture it covers (normally (see above): Human Genomics I (WS) or Genomics of Human Diseases (SS)).
- The exam will last 30min and consists of two parts
 - 10 minutes you present your RC project (with slides)
 - 5-10 minutes I will ask questions regarding the RC
 - 10-15 Minutes I will ask questions regarding the topics of the lecture. This would be similar or identical to the self testing questions I provide via Moodle for each lecture. Don't worry too much! I would predict that it is easier to get good grade in an oral exam, compared to a written exam.
 - I would tell you're your grade directly and give feedback
- If I have all this I will sent the final grades and info to the examination office (With you in CC)