

Radboud Universiteit



Radboudumc
university medical center

**EDUCATION AND EXAMINATION
REGULATIONS (EER)**
medical faculty Radboudumc

Research Master's programme
Molecular Mechanisms of Disease

Academic year 2024-2025

Contents

Section 1.	General provisions	3
Section 2.	Admission to the programme.....	6
Section 3.	Access to courses and examinations	6
Section 4.	Structure and form of the programme	8
Section 5.	Structure and form of educational units	13
Section 6.	Assessment and examination	15
Section 7.	Study progress, counselling, and recommendations	19
Section 8.	Evaluation of teaching.....	19
Section 9.	Judicium abeundi	19
Section 10.	Transitional provisions.....	20
Section 11.	Final provisions.....	20
Appendix I	Admission requirements and procedures	22
Paragraph 1	Admission requirements	22
Paragraph 2	Language requirements.....	22
Paragraph 3	Admission and application procedure.....	23
Appendix II	Examination programme Molecular Mechanisms of Disease.....	24
Appendix III	Course-specific information	25
Paragraph 1	Theoretical courses	25
Paragraph 2	Research training periods.....	33
Paragraph 3	Electives: Literature thesis and Knowledge transfer	36
Appendix IV	RU Regulations on Fraud	39
Appendix V.	RU Regulations on House Rules Examination Rooms	40
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Appendix VI	Guidelines for Distinctions Molecular Mechanisms of Disease	41

Section 1. General provisions

Article 1. Purpose of the regulations

1. These education and examination regulations (hereinafter: regulations) list the current procedures and rights and obligations established for the teaching activities and final examination of the degree programme **Molecular Mechanisms of Disease** CROHO code 60322 (hereinafter: the programme). This programme was established by the Executive Board of Radboud University (hereinafter RU) and is taught by the Faculty of Medical Sciences of Radboud University, which is subsumed under Radboud university medical center.
2. The programme is taught in collaboration with the Faculty of Science, Mathematics, and Computing Sciences, part of RU.

Article 2. Scope of the regulations

These regulations apply to students who are enrolled in the programme described in Article 1 for the academic year 2024-2025, with reference to the transitional provisions set out in Section 10 of these regulations. The provisions in Section 2 of these regulations apply to students who enrol for that academic year.

Article 2a Executive Board Guidelines

1. With a view to the organization and coordination of the provisions in these regulations, the Executive Board has established the following guidelines
(See: <https://www.radboudnet.nl/onderwijs/werkwijze-regelingen/>).
 - a. Guideline for Distinction Regulations
 - b. Not applicable
2. The provisions in these Education and Examination Regulations apply without prejudice to the provisions of the guidelines referred to in Section 1.

Article 3. Definitions

1. Terms in these regulations that also appear in the Higher Education and Research Act (Wet op het hoger onderwijs en wetenschappelijk onderzoek, hereinafter: HERA) have the meaning ascribed to them in HERA.
2. Without prejudice to the first paragraph, in these regulations the following definitions apply:
 - a. Contact moment: A moment of teaching during which a lecturer is present (physically or online);

- b. Partial examination: An examination of the knowledge, understanding, and skills of the student, as well as the assessment of the results of this examination, which in coherence with one or more other partial examinations constitutes the examination as referred to in Article 7.10, first paragraph, of HERA. Where these regulations refer to examination, this term may also be taken to mean partial examination, unless stipulated otherwise;
- c. Regulations on Fraud: the Regulations on Fraud established by the dean through a separate decision. These regulations have been included here as Appendix IV;
- d. Examination date: The date on which the examination is administered by or on behalf of the examiner;
- e. Working day: Monday to Friday, with the exception of public holidays as specified in the CAO of Dutch Universities and the collective free days designated by the Executive Board;
- f. Academic adviser: Staff member who may be consulted by students to be advised about academic and/or personal issues;
- g. Academic year: period from September 1 up to and including August 31 of the following year;
- h. Assessment Regulations: Description of the form and components of an examination (partial examinations), the requirements for taking part in these components, and the manner in which the result is determined;
- i. Assessor: A scientist of sufficient seniority and expertise, holding a PhD degree, who assesses an oral presentation or written report, master's thesis or literature thesis;
- j. Board of examiners: A committee appointed by the dean of Radboud university medical center, in accordance with Article 7.12a of HERA;
- k. Brightspace: A digital learning environment. Course manuals, full details of the courses, assessment regulations, timetables and rooms, as well as PowerPoint presentations and other study materials, will be made available through Brightspace;
- l. Course (educational unit of study): Every organized teaching activity that is linked to a number of study credits and concluded with a test/examination;
- m. EC: European Credits (study credits), being units that express study load in accordance with the European Credit Transfer System, whereby 1 EC represents 28 hours of study. The study load of an academic year is 60 study credits, which is equivalent to 1680 hours of study;
- n. Electives: Either theoretical or practical optional courses in molecular medicine and/or life sciences which the student uses for specialisation or broadening of knowledge;

- o. Examination: A component of a final examination, as referred to in Article 7.10, first paragraph, of HERA, that is concluded with an assessment linked to a number of study credits (EC);
 - p. Examiner: The person designated by the board of examiners to administer the tests and examinations, in accordance with Article 7.12 of HERA;
 - q. Principal Investigator (PI): Scientist appointed by Radboudumc or RU as assistant professor, associate professor or professor. A PI may act as supervisor or external assessor of a research training period or literature thesis;
 - r. External assessor: A PI from another department than the department of the supervisor, who assesses a research training period (oral presentation and/or report), master's thesis or literature thesis;
 - s. Final paper: An assessment of the student's academic achievements in the programme's specific discipline (master's thesis);
 - t. Knowledge Transfer: Seminars, forums, conferences and workshops in life sciences;
 - u. Master's examination: A review of the student's academic achievements in which the board of examiners assesses whether or not all course examinations and assessments of all courses and research training periods that are part of the Master's programme (as defined in the regulations), have been successfully completed. The board of examiners may decide to complete this review with an overall assessment (in terms of HERA);
 - v. Mentor: senior scientist, also appointed as student adviser especially with respect to elective subjects and research training periods. Mentors discuss progress and future career perspectives with their students approximately four times a year;
 - w. Research training period (internship): A practical project as referred to in HERA, in the following form: practical training and experience, writing a report or Master's thesis;
 - x. Research training period supervisor: PI who gives guidance during a research training period;
 - y. Resit: An opportunity to resit an examination as referred to in Article 7.10, first paragraph, of HERA;
 - z. Objection: a written document with which an interested party can submit an objection against a decision of a body (e.g. the board of examiners), requesting that decision to be reconsidered. One can always object to a test result, also for partial examinations;
 - aa. Appeal (letter): the written appeal against a dismissive decision to an objection by a body, submitted to a higher authority. An appeal to the [Examination Appeals Board](#) is only possible with regard to an entire examination.
3. Where these regulations refer to student, in most cases, this term also includes prospective student, unless stipulated otherwise.

Section 2. Admission to the programme

Article 4. **Enrolling in the programme**

1. The Executive Board enrolls a student who meets the admission requirements and procedures for enrolment at Radboud University, as referred to in Chapter IV of the Radboud University Enrolment Regulations (see: <https://www.ru.nl/en/services/tuition-fees/tuition-fee-amounts/registration-regulations>)
2. In order to provide the prospective student with adequate and clear information, the admission requirements and procedures referred to in the first paragraph have been included in these regulations as Appendix I.

Article 4a

Not applicable

Article 5. **Decision concerning admission**

1. The selection committee of the board of examiners decides, on behalf of the Executive Board, on the student's admission to the programme.

Section 3. Access to courses and examinations

Article 6. **Registering for teaching activities and examinations**

1. Any student who has registered for the teaching activities and examinations of the educational units included in the programme in accordance with applicable procedures and in timely fashion, and who, where applicable, meets the admission requirements set out in these regulations, will be registered for the relevant teaching activities, including the accompanying examinations and partial examinations (first opportunity).
2. Registration for teaching activities and examinations is not dependent on any monetary contribution other than the tuition fees, unless costs should be involved, to be determined by the dean in a separate decision, with respect to participation in any practical exercises, educational excursions or workshops in the degree programme that follow from the special nature of the degree programme. If such costs are involved, these costs are listed for information purposes in Appendix III. The dean offers an alternative, free of charge, unless the educational facility cannot be replaced.

Article 7. Registering and deregistering for educational units

1. The student must register through Osiris for the teaching activities and accompanying examinations of the educational units of the programme they are enrolled in in the manner described in Appendix III.
 - 1a. Notwithstanding the provisions of the first paragraph, first-year students in their first semester are automatically registered for all teaching activities and examinations in the first semester.
2. The student can exclusively register for educational units during the registration period laid down for the respective educational unit by or on behalf of the dean, in a separate decision. The registration periods are available in Appendix III. After this registration period, registration for the educational unit can no longer take place, unless the board of examiners decides otherwise, in special cases, on behalf of the dean.
3. The student who has registered for the educational unit can deregister ultimately at 23.59 on the day preceding a period of five working days prior to the starting date of the relevant educational unit. After this date deregistration can no longer take place.
4. It is not possible to deregister from an educational unit once it has started, unless the board of examiners decides otherwise, on behalf of the dean and in special circumstances.

Article 8. Registering and deregistering for examinations and resits

1. The student must register and deregister through Osiris for the examinations and resits of the educational units of the program they are enrolled in, in the manner described in Appendix III.
2. The student can register for an examination or resit ultimately at 23.59 on the day preceding a period of five working days prior to the date of the examination. After this date registration can no longer take place, unless the board of examiners decides otherwise, in special cases, on behalf of the dean.
3. Contrary to the provisions of paragraph 1 and 2 of the present article, the student who has registered for an educational unit of study is automatically registered for the corresponding first examination of that unit of study.
4. The student who has registered for an examination or resit can deregister ultimately at 23.59 on the day preceding a period of five working days prior to the date of the examination. After this date deregistration can no longer take place.
5. If the student does not sit the examination or resit they have registered for, the result 'ND' as referred to in article 30 under a) is registered, unless the examiner decides otherwise in special cases.

Article 9. Entry requirements for teaching activities and examinations

1. The enrolled student is allowed to take part in all the educational units of the programme and sit all corresponding examinations.
2. Notwithstanding the provisions of the first paragraph, Appendix III lists any entry requirements and/or other provisions that apply to specific educational units and/or the corresponding examinations. If entry requirements apply, the student cannot be granted admission to the educational unit and/or the corresponding examination until these entry requirements have been met.
3. An examination that was passed may be resat, unless determined otherwise in Appendix III. A partial examination that was passed may not be resat before the result of the examination has been irrevocably established, unless determined otherwise in Appendix III.
4. In special cases, the board of examiners, on behalf of the dean, may grant the student an exemption from the entry requirements referred to in paragraphs 1 and 2 of the present article. If an exemption is requested from the obligation to participate in practical exercises as referred to in article 7.13, second paragraph, under t), of HERA, the board of examiners decides on the exemption.

Section 4. Structure and form of the programme**Article 10. Learning outcomes of the programme**

This highly selective programme provides a sound balance of theory and practice to operate successfully as a researcher in academia, and/or as a team member in a research position in industry or in another advanced academic position. The learning outcomes of the programme are the following:

- a. Fundamental knowledge on the molecular mechanisms underlying human disease processes in a broad range of the molecular life sciences;
- b. Knowledge about key developments in translational medicine and ability to translate fundamental molecular knowledge into medical experimental research towards prevention, therapies and diagnostics;
- c. Ability to autonomously formulate a research problem, design and perform scientific research on a high level, keeping up with international standards;
- d. Competence to participate in scientific discussions and present scientific results in the English language to an international scientific audience;
- e. Capacity to write at the level of published articles in international peer-reviewed journals;

- f. Ability to integrate the societal and ethical impact of scientific research at relevant moments and in relevant situations in the scientific career;
- g. Ability to critically reflect on one's strengths and weaknesses with respect to career decisions and a sustainable work-life balance;
- h. Proficiency to operate successfully in varying roles in a team.

Article 11. **Study load of the programme**

The degree programme has a study load of 120 EC. The programme's study load was established under or pursuant to HERA and/or by separate decision of the Executive Board.

Article 12. **Form of the programme**

The programme is taught full-time. The programme's form was established by the Executive Board in a separate decision.

Article 13. **Language of instruction**

The programme is taught in the English language, which is the programme's language of instruction. The programme's language of instruction was established by the Executive Board in a separate decision.

Article 14. **Examination programme**

The programme includes an examination programme aimed at realizing the learning outcomes referred to in Article 10. The examination programme consists of a coherent set of educational units, as further described in Appendix II.

Article 15. **Incorporation of educational units (free elective space)**

1. With due consideration for the examination programme described in Appendix II, the programme allows for the incorporation of 11 EC or 17 EC of optional educational units from other programmes.
2. The board of examiners incorporates optional educational units from other programmes at the student's request.
3. When selecting educational units for the free elective space, the following conditions apply:
 - a. Electives are in the field of molecular medicine and/or life sciences and must at least be on Master's level. Courses may be chosen from other Master's or PhD programmes, or may be composed as an individual elective (code: VKO/IND);

- b. Notwithstanding the provision under a), students other than those who obtained a Bachelor's degree in Biology or Biomedical Sciences (Biomedische Wetenschappen) from the Radboud University may incorporate the entry exam for the Course on Laboratory Animal Sciences as an individual elective at pre-Master's level;
 - c. Electives have a minimum study load of 1.5 EC. Shorter courses may be included in Knowledge Transfer (MED-MMKT);
 - d. Electives are to be graded numerically. Exceptions are MED-MMKT and when approved by the board of examiners a maximum of 6 EC of individual electives may be qualified with P (Pass) or F (Fail);
 - e. Notwithstanding the provision under a), a maximum of 6 EC may be spent on Master's courses outside the field of molecular medicine and/or life sciences, for example for career development;
 - f. Electives have no significant overlap with the other components of the student's individual study plan;
 - g. Electives have to be approved by the board of examiners as part of the individual study plan;
 - h. Assessment regulations, as referred to in article 30.7, for individually composed electives are to be provided by the examiner prior to the start of the elective and have to be approved by the board of examiners.
4. Not applicable.
 5. Incorporation of an educational unit is only permitted before the relevant educational unit starts.
 6. In the event the educational units load and study results of the educational units to be incorporated differ from the provisions laid down in these regulations, conversion will take place. The board of examiners will decide on the conversion, on behalf of the dean, with due observance of the memo on conversion: '[Conversion of grades and credits](#)'
 7. When selecting educational units from other degree programmes for the mandatory free elective space, the relevant rules with respect to procedures and rights and obligations as referred to in Article 7.13, paragraph 2 of HERA should be adhered to, in so far as these procedures relate to that educational unit.
 8. If the inclusion of optional educational units leads to the 120 EC required by the examination programme being exceeded, these optional educational units will be seen as extra-curricular educational units. Students may indicate in their individual study plan which educational units this applies to.

Article 16. Adding educational units (extracurricular)

1. The programme allows for the addition of extracurricular educational units.
2. The total number of extracurricular educational units added to the examination programme may not exceed 18 EC.
3. The board of examiners adds the extracurricular educational units from other programmes at the student's request.
4. The addition of extracurricular educational units is subject to the following conditions:
 - a. Extracurricular educational units have to be approved by the board of examiners as part of the individual study plan. Approved units will be presented on the diploma supplement;
 - b. Extracurricular educational units may be chosen from other Master's or PhD studies, or may be composed as an individual course (code: VKO/IND);
 - c. Extracurricular educational units are to be graded numerically, and at least 50% of the grade needs to be obtained by individual assessment;
 - d. Extracurricular educational units are taken along in the determination for a distinction.
 - e. Notwithstanding the provision under b), a maximum of 6 EC may be spent on Bachelor's courses;
 - f. The total amount of extracurricular courses on Bachelor level in the examination programme may not exceed 6 EC.
5. Not applicable.
6. For adding extracurricular educational units, the provisions in Article 15, paragraphs 5 through 7 apply mutatis mutandis.

Article 17. Exemptions from educational units

1. Exemptions from educational units are permitted.
2. The total number of exemptions may not exceed 18 EC.
3. At the student's request, the board of examiners may grant an exemption for an educational unit and the corresponding examination if the student:
 - a. has completed a relevant educational unit as part of a university programme that is comparable in terms of both content and level;
 - b. can prove previous (academic) achievements that justify exemption.
4. In the assessment referred to in paragraph 3, the board of examiners checks the current relevance of the knowledge, understanding or skills that the student was tested on.
5. Exception: An exemption as referred to in the first paragraph cannot be granted for the final paper (Master's thesis).

6. The board of examiners does not grant any exemptions for partial examinations.
7. The board of examiners does not grant exemptions on the basis of results obtained during a period when the student was barred from sitting examinations because of examination fraud that was established by the board of examiners, as referred to in the Regulations on Fraud.
8. The following generic exemptions are granted for the programme:
 - a. none.
9. In establishing the results of final examinations, exemptions will be listed in Osiris as VR (“vrijstelling”, exemption).

Article 18. **Replacing educational units**

1. Replacing compulsory educational units in the examination programme is permitted.
2. At the student’s request, and in special cases, the board of examiners can replace an educational unit in the examination programme with an educational unit from another programme.
3. The replacement of educational units is subject to the following conditions:
 - a. Requests need to relate to pressing personal circumstances that justify replacement;
 - b. Replacements of educational units need to be similar both as regards content and as regards level, and part of a university Master’s or PhD programme;
 - c. The board of examiners will consult the examiner of the replaced educational unit to determine suitable replacements.
4. The replacement option referred to in the first paragraph does not apply to the final paper (Master’s thesis) and first research training period report.
5. For replacing educational units, the provisions in Article 15, paragraphs 5 through 7 apply mutatis mutandis.
6. At the student’s request and in special cases, the board of examiners may grant a student, after hearing the examiner, dispensation from a specific partial examination or educational unit. This means that the student is not required to take part in the relevant unit of study or examination but is required to meet pre-defined alternative conditions.
7. Dispensation as referred to in paragraph 6 of this Article is subject to the following conditions:
 - a. Requests must relate to pressing personal circumstances that justify dispensation.
 - b. Alternatives must be comparable to the unit of study for which dispensation is being requested in terms of both content and level.
 - c. Requests must be submitted to the board of examiners no later than 8 weeks before the start of the relevant unit of study/ partial examination.

Article 19. Free curriculum

It is not possible to follow a free curriculum.

Section 5. Structure and form of educational units**Article 20. Educational units organized per academic year**

Each educational unit is offered once per academic year unless otherwise specified in Appendix III.

Article 21. Number of opportunities to sit an examination per educational unit; resits

1. Per educational unit, the student can sit one examination and one resit per academic year, unless otherwise specified in Appendix III.
2. If the examination referred to in the first paragraph consists of partial examinations, the resit also consists of partial examinations, unless otherwise specified in Appendix III.

Article 22. Teaching and examination timetable

Appendix III specifies at the very least in which period students are given the opportunity to follow courses and sit examinations.

Article 23. Language of instruction and examinations

The teaching activities and examinations of the educational units are provided in the language of instruction of the programme, as defined in Article 13, unless otherwise specified in Appendix III.

Article 24. Learning objectives

All educational units are aimed at realizing the learning objectives described in these regulations. The learning objectives per educational unit (or a reference to these objectives) are indicated in Appendix III.

Article 25. Instruction methods

The overview in Appendix III of these regulations lists the instruction methods per educational unit, or a reference to these methods.

Article 26. Number of contact moments

The number of contact moments per educational unit (or a reference to this number) is indicated in Appendix III.

Article 27. Study load

The number of EC per educational unit is indicated in Appendix III.

Article 28. Examination format

1. Appendix III lists the examination format per educational unit, or a reference to this form. The programme uses the following examination formats:
 - a. Written partial examinations / examinations (written or digital);
 - b. Written research proposals;
 - c. Oral presentations and discussions;
 - d. Written reports, essays and assignments;
 - e. Portfolio;
 - f. Participation. 'Participation' cannot be used to assess students unless supported by a rubric or assessment form to evaluate the students.
2. In special cases, the board of examiners may decide to deviate from the examination format set out in Appendix III.
3. Written examinations are administered in the rooms designated by the programme for this purpose.
4. Not applicable.
5. For examinations other than written examinations, further rules are set out in the Assessment Regulations referred to in Article 30, paragraph 7.
6. Upon the student's request, the board of examiners may allow students with an impairment, by way of special examination facilities, to sit examinations in a format adapted to their individual impairment. Prior to reaching a decision on this matter, the board of examiners may seek expert advice. In so far as facilities in the context of a 'digital test' are concerned, the board of examiners, in designing the facility, may seek advice from the faculty's digital testing coordinator.
7. Within the framework of these Education and Examination Regulations, the board of examiners establishes guidelines and instructions (Article 7.12b, paragraph 1 (b) of HERA) for assessing and establishing the results of examinations and final examinations.
8. In case of oral presentations at least two examiners or assessors are present. For oral presentations of research training periods the daily supervisor, even if this person does not yet hold a PhD degree, may act as assessor.
9. The board of examiners may decide that a student's work can be assessed in another form if a student requests this in writing.

Section 6. Assessment and examination

Article 29. Rules for the administration of examinations

In order to ensure proper procedure is observed when administering examinations, the dean has established house rules for examination venues in a separate decision. In order to provide adequate and clear information, these rules have been included in these regulations as Appendix V.

Article 30. Establishing examination results

1. The examiner determines the result of an examination in writing or digitally and is responsible for recording this result in Osiris.
2. The result of an examination is rounded to and expressed in half grades or full grades between 1 and 10.
3. Notwithstanding the provisions of the second paragraph, the examiner may express the result of an examination in a non-numerical mode. If that is the case, this mode is described in more detail in Appendix III.
4. Notwithstanding the provisions of the second paragraph, the result of an examination is never set at 5.5 points, but rounded down to 5 or up to 6 according to the standard arithmetical rules.
5. If the result of an examination is equal to or higher than 6.0 points, or is graded as a 'pass', the examination is considered to have been passed. If the result of the examination is equal to or lower than 5.0 points, or is graded as a 'fail', the examination is considered not to have been passed.
6. The results of partial examinations are expressed in decimals, on a scale of 1.0 - 10.0, unless otherwise specified in Appendix III. The relative weighting of the partial examinations is described in the Assessment Regulations of the particular examination.
- 6a. If the result of a partial examination is equal to or higher than 5.5(0), or is assessed as a 'pass', the partial examination is considered to have been passed. If the result of a partial examination is lower than 5.5(0) or is assessed as a 'fail', the partial examination is considered not to have been passed.
7. If an examination that has already been sat is resat, the most recent grade always determines the result.
8. For every examination, the examiner establishes Assessment Regulations listing the rules for determining the examination results. The Assessment Regulations require the approval of the board of examiners and are published before the start of the educational unit. The Assessment Regulations do not deviate from the provisions of Appendix III.

Article 30a Non-numerical results

Without prejudice to the provisions of Article 30, the following non-numerical results are established and registered in Osiris in the following cases:

- a. 'NS' / 'ND' – no show (*'niet deelgenomen'*) if the student was registered for an educational unit or examination, but did not take part in it;
- b. 'EX' / 'VR' – exemption (*'vrijstelling'*) if, in accordance with these regulations, the board of examiners has granted the student an exemption from an educational unit in the examination programme;
- c. 'FR' ('fraud'), if the board of examiners has ascertained that fraud was committed during an examination, and has declared the result of the relevant examination to be invalid, in accordance with the provisions of the Regulation on Fraud attached to these regulations;
- d. 'SFR' / 'EFR' – serious fraud (*'ernstige fraude'*), if the board of examiners has ascertained that serious fraud was committed during the administration of an examination, and has declared the result of the relevant examination to be invalid, in accordance with the provisions of the Regulation on Fraud attached to these regulations;
- e. 'NR' / 'GU' – no result (*'geen uitslag'*), if no mark can be assigned due to incomplete or lack of data;
- f. 'F' / 'OV' – failed, not sufficient (*'onvoldoende'*), if a student fails one or more examinations or has not submitted their work before the due date that counts towards the final grade;
- g. 'SU' / 'V' – sufficient (*'voldoende'*), if a student passes one or more examinations;
- h. 'P' / 'VD' – passed (*'voldaan'*), if a student meets the requirements for one or more examinations;
- i. 'NP'/'NVD' – not passed (*'niet voldaan'*), if a student does not meet the requirements for one or more examinations.

Article 31. Publication of examination results

1. Immediately after the result of an examination has been established, the examiner provides the student administration office with the data required for the publication of this result.
2. The examiner publishes the result of a written examination within 15 working days after the date on which the examination was administered and no later than 10 working days before the date of the resit examination. If an examination is taken in multiple sessions, the result is published within 15 working days after the last session. Immediately following an oral examination, and in any case no later than 5 working days after it was administered, the examiner informs the student of the result and provides them with a written or digital statement to this effect. For examinations

that are administered in some other way than in writing or orally, Appendix III sets out the time period within which the student must be informed of the result. This period may not exceed 15 working days.

3. In special circumstances and upon request, the board of examiners may extend or reduce the time period referred to in the second paragraph.
4. Once the results of an examination are published, students are informed of their right to inspect their marked work as referred to in these regulations.
5. The provisions in paragraphs 1 through 4 also apply to partial examinations.
6. Once the results of an examination are published, students are informed of the possibility to appeal with the Examinations Appeals Board¹ within the applicable appeal period. This does not apply to partial examinations.

Article 32. **Perusal and inspection rights**

1. For a period of at least twenty working days following the publication of an examination result, the student is entitled, at their request, to peruse and inspect the assessed work.
2. For the period referred to in the first paragraph, any student who sat the examination is entitled to inspect the questions and/or assignments set for this examination and the standards used in the assessment.
3. Notwithstanding the provisions of paragraphs 1 and 2, the examiner may decide that perusal shall take place for all students at the same time, on a pre-defined date, time and location. If a student is unable to attend this collective perusal session due to demonstrable circumstances beyond their control, a separate perusal opportunity can be arranged upon request, preferably within the time period referred to in paragraph 1.
4. If the examination involves an examination format to which the perusal and inspection procedure described in paragraphs 1 and 2 cannot be applied, Appendix III describes how perusal is to be organized.
5. In any event, the opportunity for perusal is offered no later than 5 working days prior to the first following opportunity to sit the examination.
6. The provisions in paragraphs 1 through 5 also apply to partial examinations.

Article 33. **Validity term of examinations**

1. Passed examinations are valid indefinitely.

¹ Procedure is stated on the Radboud University website: [Lodging an appeal with the Examination Appeals Board | Radboud University \(ru.nl\)](#)

2. Not applicable.
3. Not applicable.
4. Not applicable.
5. Not applicable.
6. The validity term of partial examinations expires immediately after the end of the academic year following the academic year in which the partial examination was taken, unless stated otherwise in Appendix III.

Article 34. **Final examination**

1. The programme is concluded with a final Master's examination.
2. The board of examiners establishes the result of the final examination in writing as soon as the student has passed all the examinations corresponding to the educational units in the examination programme pertaining to the programme in question, and the student has requested a final examination. The board of examiners decides which examination the student sat last.
3. At the same time as determining the result of the final examination, the board of examiners also sets the final examination date. The final examination date is the day on which the board of examiners establishes the result, as specified in paragraph 2.
4. Prior to determining the result of the final examination, the board of examiners may conduct an inquiry into the student's knowledge with respect to one or more educational units or aspects of the programme. In that case, the final examination date is the date on which the board of examiners has established the results of the inquiry.

Article 35. **Degree and distinction**

1. A student who has passed the final examination of the programme will be awarded a Master of Science (MSc) degree.
2. The board of examiners can award a distinction to a student who has successfully completed the programme. The rules for awarding distinctions have been established in appendix VI.

Section 7. Study progress, counselling, and recommendations

Article 36. **Registration of study progress**

1. The dean is responsible for registering student results in such a way that the board of examiners can provide every student, at their request and within a reasonable period of time², with an up-to-date overview of their results.

Article 37. **Student counselling and study facilities**

1. The dean is responsible for providing adequate student counselling.
2. This means that the student can in any case make use of the RHA study advisors. In addition, students receive support and guidance from their personal mentor throughout the programme, as described in the prospectus.

Article 38. **Not applicable**

Section 8. Evaluation of teaching

Article 39. **Teaching evaluation method**

With due observance of Radboud University's quality assurance system, as laid down in the Radboud University Quality Assurance System Handbook, the dean is responsible for the systematic evaluation of the teaching offered in the context of the programme.

Section 9. Judicium abeundi

Article 40. **Student conduct in relation to future professional practice**

In order to provide the student with proper and clear information, the student is informed about the legal provisions (Article 7.42a of HERA) that grant the Executive Board the authority, in special cases and provided the due diligence requirements described in Article 7.42a are met, to terminate or refuse a student's enrolment in a programme, if the student's conduct or views indicate an incapacity to exercise one or more professions for which their degree programme trains them, or for the practical preparation for professional practice.

² An up-to-date overview can be produced at all times, students can do this themselves as well.

Section 10. Transitional provisions

Starting 2022-2023 MED-MMP2A (39 EC) and MED-MMP2B (45 EC) are replaced by MED-MMP2A1 (37.5 EC) plus MED-MMCOA1 (1.5 EC) and MED-MMP2B1 (43.5 EC) plus MED-MMCOA1 (1.5 EC), respectively. Students who have already completed components of the master programme in accordance with the exam regulations of 2021-2022 or earlier, can graduate under the examination programme (Appendix II) of the EER which was operative in the year they started the master programme.

Section 11. Final provisions

Article 41. **Safety net scheme**

1. In all cases not covered fully or clearly by these regulations, the decision lies with the dean.
2. In case of conflict between these regulations and the relevant legal provisions, the provisions in HERA take precedence.

Article 42. **Adoption, employee participation and amendments**

1. These regulations are drawn up or amended by the dean after the programme committee has delivered its opinion on them and the UMC-Raad (Faculty Joint Assembly) has approved them.
2. Amendments to these regulations do not take effect in the current academic year unless this disproportionately compromises the student's interests.
3. In cases when these regulations cannot be implemented as a result of an urgent crisis and the accompanying restrictions and measures, the dean decides on any adjustments needed to ensure optimal study progress in the given circumstances.
4. In the cases referred to in paragraph 3, the dean informs the programme committee and the UMC-Raad of the proposed adjustments and, if the circumstances allow it, waits before reaching a final decision until the programme committee and UMC-Raad have delivered their opinion on the matter.
5. In the cases referred to in paragraph 3, an addendum will be added to these regulations. The participational bodies will be involved in drawing up this addendum in accordance with the standard, statutory provisions regarding the adoption, in whole or in part, of the EER.

Article 43. **Entry into force**

1. These regulations enter into force on 1 September 2024.
2. Any previously established Education and Examination Regulations expire as of this date.

Article 44. **Publication**

1. The dean is responsible for publishing these regulations and any amendments thereto.
2. Any interested party is entitled to peruse these regulations via the website of the relevant Radboud university medical center programme.
3. The Education and Examination Regulations are available for students in the programme's language of instruction.

Article 45. **Evaluation**

The dean is responsible for regularly assessing these regulations.

As established by the dean on 3 July 2024.

Appendix I Admission requirements and procedures

Paragraph 1 Admission requirements

1. To be admitted to the programme Molecular Mechanisms of Disease, candidates must have:
 - a. a Bachelor of Science (BSc) degree in life sciences such as Cell Biology, Molecular Medicine, Biomedical Sciences, Biochemistry, Biotechnology or Molecular Biology or have completed training which the board of examiners deems to be of a comparable content and level;
 - b. a BSc degree with results well above average as assessed by the selection committee for this programme; the board of examiners may make exceptions in special cases;
 - c. chosen the research-oriented specialisation in their BSc programme, where possible;
 - d. a strong motivation to pursue a career in research that is related to the molecular mechanisms of disease;
 - e. at least two months of hands-on practical experience in the field of molecular life sciences;
 - f. an excellent command of English (see language requirements, paragraph 2).
2. In addition to the prior education or the qualities of the candidate, at least two members of the entrance selection committee of the board of examiners will hold an individual interview (in English) with the candidate. This interview assesses communicative behaviour, capacity for teamwork, the capacity to reflect on one selves, creativity, innovative thinking and scientific reasoning. Furthermore, using a standard set of questions it is assessed whether the background knowledge of the students conforms to the required content and level.

Admission to the programme is dependent on this interview and final overall judgement of the board of examiners of the master's programme Molecular Mechanisms of Disease.

Paragraph 2 Language requirements

An advanced command of English is required to participate in classes and examinations, as stated in the Code of Conduct Foreign Languages of Radboud University Nijmegen. This requirement is satisfied if the student can submit before start of the programme a testimonial of one of the following tests:

- a TOEFL iBT test certifying a minimum score of 90 (Internet test), with all sub-scores equal or above 22;

- IELTS (International English Language Testing System) Academic, applicants must achieve an overall minimum test score of 6.5, a minimum testscore of 6.0 on all subitems and a minimal testscore on “writing” of 6.5;
- Cambridge C1 Advanced, with an overall minimum score of 176, a minimum score of 169 on all subitems and a minimum score on “writing” of 176
- Cambridge C2 Proficiency, with an overall minimum score of 180, a minimum score of 169 on all subitems and a minimum score on “writing” of 176

For native speakers and students who have completed their prior education in English, a General Certificate of Education (grade C) or equivalent is sufficient. It is assumed that students who have studied to University Bachelor’s or equivalent level in the Netherlands will have a sufficient level of the English language and therefore they do not need to submit a TOEFL test or equivalent.

Paragraph 3 Admission and application procedure

1. The admission procedure, which is approved by the board of examiners before start of the selection, is stated on our website. See <https://www.ru.nl/english/education/masters/molecular-mechanisms-of-disease-research/admission-and-application/>
2. The programme has a maximum student number of 30, as determined by the executive board, in a separate decision. For educational reasons, to allow sufficient guidance and small scale groups, the programme has sets its student limit to 24 in 2024-2025. At the discretion of the dean, following advice of the programme director, the set student number may be exceeded.

Appendix II Examination programme Molecular Mechanisms of Disease

Year	Educational unit / course	Code	Study load (EC)
1	Introduction to Molecular Mechanisms of Disease	MED-MMIC	2.5
	Excellence in communication	MED-MMEC	1.5
	Understanding basic statistics using R	MED-MMBS	1.5
	Immunity, infection and inflammation	MED-MM1CFA	4.0
	Immunity related disorders and immunotherapy	MED-MM1TR	2.0
	Metabolism, transport and motion	MED-MM2CFA	4.0
	Metabolic disorders	MED-MM2TR	2.0
	Cell growth and differentiation	MED-MM3CFB	2.5
	Developmental disorders and malignancies	MED-MM3TR	2.0
	Computational Biology & Bioinformatics	MED-MMCBB	3.0
	Scientific skills	MED-MMSKB	1.5
	Masterclass 2	MED-MM2MC	1.5
	Research training period 1	MED-MMP1C	30.0
	2	Omics data analysis and interpretation	MED-MMSTA
Science and society		MED-MMSS	1.5
Masterclass 1		MED-MM1MC	1.5
Research training period 2 – 26 weeks		MED-MMP2A1*	37.5
Research training period 2 – 30 weeks		MED-MMP2B1*	43.5
1 and 2	Mentoring	MED-MMCOA1	1.5
	Electives [#]		17.0 or 11.0
	Literature thesis	MED-MMLT**	6.0
	Knowledge transfer	MED-MMKT**	3.0
		Total	120

*Students either do MED-MMP2A1 or MED-MMP2B1.

#Electives need to be 17.0 EC in combination with MED-MMP2A1 or 11.0 EC in combination with MED-MMP2B1.

**Literature thesis (MED-MMLT) and Knowledge transfer (MED-MMKT) are optional elective components.

Appendix III Course-specific information

Paragraph 1 Theoretical courses

For all theoretical courses, described in the underlying tables IIIb the following is determined.

Table IIIa. General information MMD theoretical courses (MED-MMIC, MED-MMEC, MED-MMBS, MED-MM1CFA, MED-MM1TR, MED-MM2CFA, MED-MM2TR, MED-MM3CFB, MED-MM3TR, MED-MMCBB, MED-MMSKB, MED-MM2MC, MED-MMSTA, MED-MMSS, MED-MM1MC)

Information education		
	Learning objectives	See prospectus (Viewing your course guide Radboud University (ru.nl))
	Entry requirements for taking part in teaching activities	Not applicable
	Registration procedure for tuition	All students need to register via Osiris. Specific registration periods will be announced. Exempted are incoming first year MMD students; they are automatically enrolled via Osiris for tuition of all obligatory courses in Year 1.
	Tuition form/instruction method	Lectures and demonstrations, discussions, enquiry-based projects, communication skills training; for details see prospectus (Viewing your course guide Radboud University (ru.nl))
	Number of contact moments	See MyTimetable - Roosterweergave Radboud Universiteit (ru.nl)
	Language of instruction	English
	Study costs	Not applicable
Information examination		
	Entry requirements for sitting examinations	Not applicable
	Number of examination opportunities per academic year	2
	Maximum number of examination opportunities	Not applicable
	Registration procedure for examination	Students who are registered for tuition via Osiris are also automatically enrolled for the first examination opportunity of the corresponding unit of study; resit registration needs to be done via Osiris in accordance with article 8.
	Deregistration from examination	See article 8, via Osiris. In case notice of absence has been given to the examiner at least two days prior to the examination date, the final result of the examination will be 'NS' (no show) and no EC will be awarded.

Examination language	English
Period of validity	Indefinitely, with due observance of the stipulations on this matter laid down in HERA.
Resit of passed examination	Allowed, after having informed the board of examiners at the latest 28 days before the examination date.
Resit of partial examinations	Allowed for partial examinations that were not passed. <u>Not allowed</u> for passed partial examinations, except written individual exams (short answer open-ended question exams), after having informed the board of examiners at the latest 28 days before the partial examination date.
Set-up first examination opportunity	
Term for publication of examination results	15 working days
Validity term of partial examinations	As stated in article 33
Set-up resit examination	
Term for publication of examination results	15 working days
Number of partial examinations	Equal to first examination opportunity
Type of examination	Equal to first examination opportunity
Committee to be approached with special requests	
Board of Examiners MMD	

Table IIIb. Specific details theoretical courses (MED-MMIC, MED-MMEC, MED-MMBS, MED-MM1CFA, MED-MM1TR, MED-MM2CFA, MED-MM2TR, MED-MM3CFB, MED-MM3TR, MED-MMCBB, MED-MMSKB, MED-MM2MC, MED-MMSTA, MED-MMSS, MED-MM1MC)

Introduction to Molecular Mechanisms of Disease	
Code	MED-MMIC
Study load	2.5 EC
Period	September
Information examination	
Determination examination grade	Pass (P) or Fail (F); written report is numerically graded.
Set-up first examination opportunity	
Period	September
Number of partial examinations	3
Type of examination	Written assignments (2) and written report; for details see assessment regulations.
Set-up resit examination	
Period	To be determined in consultation between examiner and student.

Excellence in communication	
Code	MED-MMEC
Study load	1.5 EC
Period	September
Information examination	
Determination examination grade	Pass (P) or Fail (F)
Set-up first examination opportunity	
Period	September
Number of partial examinations	4

Type of examination	Oral presentation (performance, content and creativity), poster presentation (content and creativity) and social media assignment (content and creativity); for details see assessment regulations.
Set-up resit examination	
Period	To be determined in consultation between examiner and student.

Understanding basic statistics using R	
Code	MED-MMBS
Study load	1.5 EC
Period	October
Information examination	
Determination examination grade	Pass (P) or Fail (F)
Set-up first examination opportunity	
Period	October
Number of partial examinations	1
Type of examination	Computer assignment and written scientific report; for details see assessment regulations.
Set-up resit examination	
Period	To be determined in consultation between examiner and student.

Immunity, infection and inflammation	
Code	MED-MM1CFA
Study load	4.0 EC
Period	November/December
Information examination	
Determination examination grade	According to article 30; numerically graded
Set-up first examination opportunity	
Period	December
Number of partial examinations	4
Type of examination form	Written examination (short answer open-ended questions), written research proposal, journal club presentation, round table discussion; for details see assessment regulations.
Set-up resit examination	
Period	April

Immunity related disorders and immunotherapy	
Code	MED-MM1TR
Study load	2.0 EC
Period	December
Information examination	
Determination examination grade	According to article 30; numerically graded
Set-up first examination opportunity	
Period	December
Number of partial examinations	1

Type of examination	Written examination (short answer open-ended questions); for details see assessment regulations.
Set-up resit examination	
Period	April

Metabolism, transport and motion	
Code	MED-MM2CFA
Study load	4.0 EC
Period	October/November
Information examination	
Determination examination grade	According to article 30; numerically graded
Set-up first examination opportunity	
Period	November
Number of partial examinations	3
Type of examination	Written examination (short answer open-ended questions), written research proposal, oral presentation; for details see assessment regulations.
Set-up resit examination	
Period	March

Metabolic disorders	
Code	MED-MM2TR
Study load	2.0 EC
Period	November
Information examination	
Determination examination grade	According to article 30; numerically graded
Set-up first examination opportunity	
Period	November
Number of partial examinations	1
Type of examination	Written examination (short answer open-ended questions); for details see assessment regulations.
Set-up resit examination	
Period	March

Cell growth and differentiation	
Code	MED-MM3CFB
Study load	2.5 EC
Period	September/October
Information examination	
Determination examination grade	According to article 30; numerically graded
Set-up first examination opportunity	
Period	October
Number of partial examinations	1
Type of examination	Written examination (short answer open-ended questions); for details see assessment regulations.
Set-up resit examination	
Period	February

Developmental disorders and malignancies		
Code	MED-MM3TR	
Study load	2.0 EC	
Period	October	
Information examination		
Determination examination grade	According to article 30; numerically graded	
Set-up first examination opportunity		
Period	October	
Number of partial examinations	1	
Type of examination	Written examination (short answer open-ended questions); for details see assessment regulations.	
Set-up resit examination		
Period	February	

Computational Biology & Bioinformatics		
Code	MED-MMCB	
Study load	3.0 EC	
Period	January	
Information examination		
Determination examination grade	According to article 30; numerically graded	
Set-up first examination opportunity		
Period	January	
Number of partial examinations	2	
Type of examination	Written examination (open-ended questions) and bioinformatics project (presentation); for details see assessment regulations.	
Set-up resit examination		
Period	May	

Scientific skills		
Code	MED-MMSKB	
Study load	1.5 EC	
Period	January – June	
Information examination		
Determination examination grade	Pass (P) or Fail (F)	
Set-up first examination opportunity		
Period	January-June	
Number of partial examinations	1	
Type of examination	Portfolio consisting out of assignments for the individual elements of the course; for details see assessment regulations.	
Set-up resit examination		
Period	To be determined in consultation between examiner and student.	

Omics data analysis and interpretation		
Code	MED-MMSTA	
Study load	3.0 EC	
Period	September	
Information examination		

	Determination examination grade	According to article 30; numerically graded
Set-up first examination opportunity		
	Period	September
	Number of partial examinations	2
	Type of examination	Written examination (short answer open-ended questions) and project; for details see assessment regulations.
Set-up resit examination		
	Period	November

Science and society		
	Code	MED-MMSS
	Study load	1.5 EC
	Period	September
Information examination		
	Determination examination grade	According to article 30; numerically graded
Set-up first examination opportunity		
	Period	September
	Number of partial examinations	2
	Type of examination	Oral presentation and written assignment (essay/position paper); for details see assessment regulations.
Set-up resit examination		
	Period	To be determined in consultation between examiner and student.

Masterclass 1		
	Code	MED-MM1MC
	Study load	1.5 EC
	Period	September
Information examination		
	Determination examination grade	According to article 30; numerically graded
Set-up first examination opportunity		
	Period	September
	Number of partial examinations	2-4 (to be determined); see assessment regulations.
	Type of examination	Written assignment, journal club presentation and other (to be determined); for details see assessment regulations.
Set-up resit examination		
	Period & type	If a student fails the masterclass, the examiner will determine the exact type and period for resit. The type of examination will be as much as possible equal to the first examination opportunity.

Masterclass 2		
	Code	MED-MM2MC
	Study load	1.5 EC
	Period	January
Information examination		
	Determination examination grade	According to article 30; numerically graded

Set-up first examination opportunity		
	Period	January
	Number of partial examinations	2-4 (to be determined); see assessment regulations
	Type of examination	Written assignment, journal club presentation and other (to be determined); see assessment regulations.
Set-up resit examination		
	Period & type	If a student fails the masterclass, the examiner will determine the exact type and period for resit. The type of examination will be as much as possible equal to the first examination opportunity.

Table IIIc. Information MMD Mentoring – Learning trajectory personal and professional development

Mentoring		
	Code	MED-MMCOA1
	Study load	1.5 EC
	Period	Year 1 – 2
	Learning objectives	See prospectus (Viewing your course guide Radboud University (ru.nl))
Information education		
	Entry requirements for taking part in teaching activities	Not applicable
	Registration procedure for tuition	Not applicable
	Instruction method	Students discuss with their personal mentor study choices, personal development and career perspectives. Students prepare these meetings by writing a reflection report. Obligatory group peer review meetings (under guidance of a professional coach) are scheduled at three moments in the programme. Group Programme Information sessions with the programme coordinator are planned several times a year. Students give each other feedback on team assignments during the courses of the first year.
	Number of contact moments	Flexible; 4 mentor meetings in first year and 3 meetings in second year are highly recommended. Three mentor meetings during the first year and the final meeting at the end of the Master's programme are obligatory. The group peer review sessions are obligatory.
	Language of instruction	English
	Study costs	Not applicable
Information examination		
	Entry requirements for sitting examinations	Not applicable
	Number of examination opportunities per academic year	2

	Maximum number of examination opportunities	Not applicable
	Registration examination	Students are registered for the examination by the programme administration.
	Deregistration examination	Not applicable
	Examination language	English
	Period of validity	Unlimited
	Determination examination grade	Pass (P) or Fail (F)
	Resit of passed examination	Not applicable
	Resit of partial examinations	Not applicable
Set-up first examination opportunity		
	Period	Flexible
	Number of partial examinations	1
	Type of examination	Written short reflection per mentor meeting. Three reflections in the first year (signed by mentor) and the final reflection of the Master's programme (all uploaded to Brightspace Mentor course) are obligatory as documentation of the mentor meetings. The final reflection has to be prepared and uploaded at least 15 working days before the intended graduation date. The mentor signature on this final reflection is not obligatory. Three feedback reports received from fellow students during the courses of the first year.
	Term for publication of examination results	15 working days
	Validity term of partial examinations	As stated in article 33
Set-up resit examination		
	Period	Flexible
	Number of partial examinations	1
	Type of examination	Submit written short reflection per mentor meeting. Three feedback reports received from fellow students.
	Term for publication of examination results	15 working days
Committee to be approached with special requests		
	Board of Examiners MMD	

Paragraph 2 Research training periods

Table III.d. Information MMD research training periods

Research training period 1		
	Code	MED-MMP1C
	Study load	21 weeks – 30 EC
	Period	January – July
	Learning objectives	See Guidelines internship MMD on Brightspace
Information education		
	Entry requirements for taking part in teaching activities	The work plan for the research training period must be approved by the board of examiners as part of the individual study plan before the start of the research training period.
	Registration procedure for tuition	The student submits the work plan for research training period 1 to the board of examiners as instructed in their Rules and Regulations, end of November, before start of the research training period.
	Instruction method	The student conducts research at the Radboud University or Radboudumc under supervision of a scientist and writes a report.
	Number of contact moments	The student conducts research 40 hours a week; estimated supervision time is at least 5 hours a week.
	Language of instruction	English
	Study costs	Not applicable
Information examination		
	Entry requirements for sitting examinations	Not applicable
	Number of examination opportunities per study year	1
	Maximum number of examination opportunities	2
	Registration examination	Automatic registration after approval of research training period work plan.
	Deregistration examination	Not applicable
	Examination language	English
	Period of validity	Unlimited
	Determination examination grade	According to article 30; numerically graded. Specific rules apply to examiners and assessment forms, see Rules and Regulations of the Board of Examiners and Guidelines internship MMD on Brightspace. Detailed assessment regulations for research training periods are printed on the assessment form (available from Brightspace).
	Resit of passed examination	Not allowed
	Resit of partial examinations	If a student fails the research training period, the examiner in consultation with the board of examiners will determine the options for resit.

Set-up first examination opportunity		
Period		21 weeks in January-July; this time period includes writing a report.
Number of partial examinations		4
Type of examination		Professional attitude and activities, oral presentation and written internship report. See internship assessment forms (approved by the board of examiners) and Guidelines internship MMD on Brightspace for details.
Term for publication of examination results		15 working days
Validity term of partial examinations		As stated in article 33
Set-up resit examination		
Period		If a student fails the research training period, the examiner in consultation with the board of examiners will determine the options and period for resit.
Number of partial examinations		Equal to first examination opportunity
Type of examination		Equal to first examination opportunity
Term for publication of examination results		15 working days
Committee to be approached with special requests		
Board of Examiners MMD		

Research training period 2		
Code		MED-MMP2A1 or MED-MMP2B1
Study load		MED-MMP2A1 (26 weeks) - 37.5 EC MED-MMP2B (30 weeks) - 43.5 EC
Period		October – July or January - July
Learning objectives		See Guidelines internship MMD on Brightspace
Information education		
Entry requirements for taking part in teaching activities		To start Research Training Period 2, all partial examinations of Research Training Period 1 must have been completed. The work plan for the research training period must be approved by the board of examiners as part of the individual study plan before the start of the research training period.
Registration procedure for tuition		The student submits a work plan for research training period 2 to the board of examiners as instructed in their Rules and Regulations at least 6 weeks before start of the research training period.
Instruction method		The student conducts research under supervision of a scientist and writes a report.
Number of contact moments		The student conducts research 40 hours a week; estimated supervision time is at least 5 hours a week.
Language of instruction		English
Study costs		Not applicable
Information examination		
Entry requirements for sitting examinations		Not applicable
Number of examination opportunities per academic year		1

	Maximum number of examination opportunities	2
	Registration examination	Automatic registration after approval of research training period work plan.
	Deregistration examination	Not applicable
	Examination language	English
	Period of validity	Unlimited
	Determination examination grade	According to article 30; numerically graded. Specific rules apply to examiners and assessment forms, see Rules and regulations of the board of examiners and Guidelines internship MMD on Brightspace. Detailed assessment regulations for research training periods are printed on the assessment form (available from Brightspace).
	Resit of passed examination	Not allowed
	Resit of partial examinations	If a student fails the research training period, the examiner in consultation with the board of examiners will determine the options for resit.
Set-up first examination opportunity		
	Period	26 or 30 weeks in October-July; this time period includes writing a Master's thesis.
	Number of partial examinations	4
	Type of examination	Professional attitude and activities, oral presentation and Master's thesis which has to be written in the format of a scientific paper with supplements. See internship assessment forms (approved by the board of examiners) and Guidelines internship MMD on Brightspace for details.
	Term for publication of examination results	15 working days
	Validity term of partial examinations	As stated in article 33
Set-up resit examination		
	Period	If a student fails the research training period, the examiner in consultation with the board of examiners will determine the options and period for resit.
	Number of partial examinations	Equal to first examination opportunity
	Type of examination	Equal to first examination opportunity
	Term for publication of examination results	15 working days
Committee to be approached with special requests		
	Board of Examiners MMD	

Paragraph 3 Electives: Literature thesis and Knowledge transfer

Table IIIe. Information MMD Literature thesis

Literature thesis		
	Code	MED-MMLT
	Study load	6 EC
	Period	Flexible
	Learning objectives	See Guidelines Literature thesis on Brightspace
Information education		
	Entry requirements for taking part in teaching activities	The application for the Literature thesis must be approved by the board of examiners as part of the individual study plan before the start of the Literature thesis.
	Registration procedure for tuition	The student submits the application form Literature thesis to the board of examiners, at least 4 weeks before start of the literature thesis.
	Instruction method	The student answers a research question, performs a literature study and writes a review under structured supervision of a scientist. Specific guidelines for the Literature thesis (including a time limit of 4 weeks, restrictions on topic and supervisors) are published on Brightspace.
	Number of contact moments	The student conducts the literature study in 4 weeks (or an equivalent thereof); estimated supervision time is at least 1.5 hours a week.
	Language of instruction	English
	Study costs	Not applicable
Information examination		
	Entry requirements for sitting examinations	Not applicable
	Number of examination opportunities per study year	2
	Maximum number of examination opportunities	Not applicable
	Registration examination	Via approval of the Literature thesis application form.
	Deregistration examination	Not applicable
	Examination language	English
	Period of validity	Unlimited
	Determination examination grade	According to article 30; numerically graded. Specific rules apply to examiners and assessment forms, see Rules and regulations of the board of examiners and guidelines Literature thesis on Brightspace. Detailed assessment regulations for Literature thesis are printed on the assessment form (available from Brightspace).
	Resit of passed examination	Not allowed

	Resit of partial examinations	Not allowed
Set-up first examination opportunity		
	Period	Flexible, 4-week time period
	Number of partial examinations	1
	Type of examination	Written Literature thesis. See Literature thesis assessment form (approved by the board of examiners) and guidelines Literature thesis on Brightspace for details.
	Term for publication of examination results	15 working days
	Validity term of partial examination	As stated in article 33
Set-up resit examination		
	Period	Flexible, 4-week time period
	Number of partial examinations	1
	Type of examination	If a student fails the Literature thesis, the student has to write a completely new Literature thesis on a new topic.
	Term for publication of examination results	15 working days
Committee to be approached with special requests		
	Board of Examiners MMD	

Table IIIe. Information MMD Knowledge transfer

Knowledge transfer		
	Code	MED-MMKT
	Study load	3 EC
	Period	Year 1 – 2
	Learning objectives	See prospectus (Viewing your course guide Radboud University (ru.nl))
Information education		
	Entry requirements for taking part in teaching activities	Not applicable
	Registration procedure for tuition	Not applicable
	Instruction method	Students attend (international) scientific seminars and symposia, discuss and present science and reflect.
	Number of contact moments	Flexible
	Language of instruction	English
	Study costs	Reimbursement for symposia costs (fee and travel) is given up to 400 euro per student
Information examination		
	Entry requirements for sitting examinations	Not applicable
	Number of examination opportunities per academic year	2
	Maximum number of examination opportunities	Not applicable
	Registration examination	Students are registered for the examination by the programme administration.
	Deregistration examination	Not applicable
	Examination language	English
	Period of validity	Unlimited
	Determination examination grade	Pass (P) or Fail (F)
	Resit of passed examination	Not applicable
	Resit of partial examinations	Not applicable

Set-up first examination opportunity		
	Period	Flexible
	Number of partial examinations	1
	Type of examination	Written short reflection per seminar and/or symposium. The Knowledge transfer reflection sheet (available via Brightspace) has to be handed in to the course coordinator.
	Term for publication of examination results	15 working days
	Validity term of partial examinations	As stated in article 33
Set-up resit examination		
	Period	Flexible
	Number of partial examinations	1
	Type of examination form	Resubmit improved written short reflection per seminar and/or symposium.
	Term for publication of examination results	15 working days
Committee to be approached with special requests		
	Board of Examiners MMD	



Appendix IV RU Regulations on Fraud

These regulations can be found here: <https://www.ru.nl/en/regulations/format-regulations-on-fraud>



Appendix V. RU Regulations on House Rules Examination Rooms

These regulations can be found here: <https://www.radboudnet.nl/onderwijs/werkwijze-regelingen/model-huisregels-tentamenruimten-radboud/>

Appendix VI Guidelines for Distinctions Molecular Mechanisms of Disease

1. The board of examiners will judge whether the Master's certificate should be awarded the distinctions of cum laude or summa cum laude. Based on the weighted mean of the courses stipulated in Appendix II*, the following judicia can be awarded:
No iudicium: the weighted mean of the grades assigned is below 8.0.
Cum laude: the weighted mean of the grades assigned is ≥ 8.0 and < 9.0 .
Summa cum laude: the weighted mean of the grades assigned is ≥ 9.0 .
* *This relates to courses assessed with a mark.*
2. In order for the Board to consider any distinction as mentioned in paragraph 1 here above, the results of both research training periods are ≥ 8.0 and the weighted mean of the grades for all courses (obligatory, elective and extracurricular) excluding the research training periods is ≥ 8.0 .
3. In order for the Board to consider any distinction as mentioned in paragraph 1 here above, all results have to be obtained the first time the student takes a course examination; only one resit may have been involved in obtaining any of the results of the master's programme.
4. In order for the Board to consider any distinction as mentioned in paragraph 1 here above, the research question answered in the reports of the research training periods has to be in agreement with the research question as defined in the work plan approved by the board of examiners; in addition the reports of the research training periods have to be handed in for grading on time – 6 weeks after a research training period has been completed – as specified in the Rules and Guidelines set by the board of examiners.
5. The board of examiners can deviate from the criteria in paragraphs 1, 2, 3 and 4 in special circumstances.