

臺北醫學大學醫學科技學院醫學生物科技博士學位學程修業規定

Degree Requirements for Ph.D. Program in Medical Biotechnology at College of Medical Science and Technology in Taipei Medical University

104 年 3 月 18 日學程會議新訂通過
Approved by the Program Affairs Council on March 18, 2015
104 年 3 月 27 日院務會議新訂通過
Approved by the Program Affairs Council on March 27, 2015
104 年 4 月 10 日教務會議新訂通過
Approved by the Program Affairs Council on April 10, 2015
108 年 4 月 29 日院務會議修訂通過
Approved by the Program Affairs Council on March 29, 2019
108 年 5 月 16 日教務會議修訂通過
Approved by the Program Affairs Council on May 16, 2019
108 年 4 月 28 日院務會議修訂通過
Approved by the Program Affairs Council on March 29, 2019
109 年 4 月 29 日院務會議修訂通過
Approved by the Program Affairs Council on April 29, 2020
109 年 5 月 13 日教務會議修訂通過
Approved by the Program Affairs Council on November 23, 2020
109 年 11 月 23 日學程會議修訂通過
Approved by the Program Affairs Council on November 18, 2020
109 年 11 月 26 日院務會議修訂通過
Approved by the Program Affairs Council on December 9, 2020
109 年 12 月 9 日教務會議修訂通過

第一條 修業及休學年限：依本校學則規定辦理。

I. Allotted timeframe for Graduation and Suspension from Ph.D. Program in Medical Biotechnology at the College of Medical Science and Technology in Taipei Medical University (the Program). The period of study shall be as stipulated in the Taipei Medical University Academic Regulations.

第二條 修業學分：

II. Coursework

一、107 學年度(含)之前入學：須修畢至少 30 學分，包括必修 16 學分(含博士論文 12 學分及研究論理 0 學分)及選修 14 學分(院內選修至少 6 學分)。

Enrollment before September 2018 (inclusive): Enrolled students are required to complete a minimum of 30 credits, comprising 16 required (including 12 credits of Doctoral Dissertation, and Research ethics 0 credit) and 14 elective credits (At least 6 credits for elective courses in the college).

二、108 學年度入學：須修畢至少 30 學分，包括必修 20 學分(含博士論文 12 學分及研究論理 0 學分)及選修 10 學分(院內選修至少 6 學分)。

Enrollment September 2019: Enrolled students are required to complete a minimum of 30 credits, comprising 20 required (including 12 credits of Doctoral Dissertation, and Research ethics 0 credit) and 10 elective credits (At least 6 credits for elective courses in the college).

三、109 學年度(含)之後入學：須修畢至少 30 學分，包括必修 26 學分(含博士論文 12 學分及研究論理 0 學分)及選修 4 學分(得認列校內博士班之課程)。

Enrollment after September 2020 (inclusive): Enrolled students are required to complete a minimum of 30 credits, comprising 26 required (including 12 credits of Doctoral Dissertation, and Research ethics 0 credit) and 4 elective credits (The courses of the doctoral program on campus may be recognized).

四、外國學生修讀本校碩、博士班之課程，得認列本學程之選修學分。

Foreign students who study the courses of the master's and doctoral programs of this school can receive elective credits of the department.

五、每學期至少修習 3 學分，至多不超過 15 學分。

Take at least 3 credits per semester and no more than 15 credits.

六、學分修習時限以第一、二年為原則，修滿方得參加資格考試。

The time limit for the study of credits is based on the first and second years and the qualification examination can only be taken after completing the required credits.

七、逕修博士學位者，須修畢至少 42 學分(含碩士班所修學分及博士論文 12 學分)。

Applicants for direct admission to the doctoral program must have completed at least 42 credits (including credits for master's degree and 12 credits for doctoral thesis).

第三條 論文輔導委員會：

III. Dissertation Advisory Committee(DAC)

一、研究生應於第一學期結束前選定指導老師，並於博二學年結束前由指導老師組成論文輔導委員會，此委員會置委員三至五人(含指導老師)，並由學程主任指定委員一人擔任召集人(指導老師不得擔任召集人)。

The student should select a dissertation advisor before the end of the first semester, and the advisor should initiate the DAC before the end of the second school year. The Committee has three to five members (including the advisor), and the Program Director appoints the convener (the advisor is not allowed to serve as convener).

二、研究生修業類型採學術型與實務型雙軌制，由該生指導教師決定之。

The track of graduate study can be either academic or practical and is decided by the student's advisor.

三、自博三起，每學年向論文輔導委員會進行至少一次的進度報告。

Starting from the third year, the student must present at least one progress report to the Committee every academic year.

四、論文輔導委員會須於每學年進度報告後，將相關意見彙整交予學程，經學程主任及本學程博士生研究進度審核委員會審核後，審核意見彙整交予研究生及指導老師，給予適度輔導。

The Advisory Committee shall give advice on the student's progress and complete a commentary report to the student and his/her thesis advisor for their following up.

五、如有更換指導老師情形，須於一年內組成新的論文輔導委員會。

When students change to a new dissertation advisor, a new DAC must be formed within one year.

第四條 資格考試規定：

IV. Qualifying Examination

一、博二(含)以上研究生修滿學程規定之必修及選修至少 18 學分(博士班必修課程須修畢 4 學分，選修博士學位者須修畢至少 28 學分)後，得申請資格考試。

After completing the credits (excluding the 12 credits of Doctoral Dissertation), second-year graduate students may apply for the Qualifying Examination.

二、資格考試須在博三(含)結束前完成，可考二次，若仍不及格者，應令退學。通過資格考後，即成為博士學位候選人。

The Qualifying Examination must be completed before the end of the third year. Students can take the Examination twice, if they fail, they will be ordered to withdraw from the Program. After successfully completing the Examination, the student becomes a Ph.D. candidate.

三、考試委員組成方式：

The composition of the Examination Committee:

1. 由學程主任指派一名本學程專任或合聘專任教師擔任召集人。

The Program Director shall appoint a full-time or conjunct full-time faculty member as the convener.

2. 召集人建議考試委員 5-7 人，由學程主任圈選出 4 人(校外至少一人，學程主任亦可推薦考試委員)，以形成 5 人考試委員小組。

The convener recommends five to seven Committee members, among whom four (including at least one outside the University; the Program

Director can also recommend Committee members) are selected by the Program Director to form an Examination Committee of five members.

3. 學生第二次資格考試可採用原題目或新的題目重考，視需求可重組資格考委員會。

The second Qualifying Examination can be done on the original topic or on a new topic. The Qualifying Examination Committee can be reorganized as needed.

四、申請時間：每年三月及九月，依學程公告時間為準。

Application time: March and September, subject to the announcement of the Program.

五、申請文件：

Application documents:

1. 博士學位候選人資格考試申請書。

Application form of Ph.D. Candidate Qualifying Examination.

2. 歷年成績單正本。

The original transcript of all years.

3. 提出非博士論文相關研究計畫(Non-thesis proposal)主題及英文摘要。

Non-doctoral dissertation-related title and abstract.

六、考試內容：

Examination content:

1. 由研究生自選一個與其碩士、博士論文、論文指導教授進行之研究內容無關的主題作為資格考主題。

The graduate student chooses a topic that is not related to the content of his/her master's thesis, doctoral dissertation, or advisor's research.

2. 報告內容包涵「背景介紹」、「理論基礎」、「假說」，以及支持「假說」成立的有力證據，並對證據提出評估與批判討論，及對「假說」設計實驗並評斷。

The contents of the proposal must include "background information", "theoretical basis", "hypothesis", and strong evidence supporting the establishment of the "hypothesis". The student must evaluate and criticize the evidence, design experiments to test the "hypothesis" and judge.

3. 考試前十日交英文研究計畫書。

Submit the first draft in English 10 days before the examination.

4. 研究生報告 50 分鐘(中文或英文報告均可)，資格考試時間約 2 小時。

The student's oral presentation is 50 minutes (in either Chinese or English), and total examination time is up to 2 hours.

七、評分標準：

Scoring standard:

1. 文獻收集及證據整理、報告主題假說之價值性、理解力及邏輯思考能力、英文書面初稿之撰寫、表達能力及臨場反應。

Document and evidence collation, value of the topic hypothesis, comprehension and logical thinking ability, writing of English drafts, expression skills, and interview responses.

2. 考試成績採多數決決定之。

The examination outcome is determined by majority decision.

第五條 博士學位考試初審：

V. Preliminary Evaluation of Doctoral Degree Examination:

一、申請時間：每年三月及十月，依學程公告時間為準。

Application time: April and October, subject to the announcement of the Program.

二、繳交資料：

Application documents:

1. 修業成績證明。

Academic transcript.

2. 發表於 SCI 論文之抽印本(或接受函)或本學程專利審查小組審核通過證明。

A printed copy (or an acceptance letter) of a paper published in the Science Citation Index (SCI) or a certificate approved by the Patent Examination Committee of the Program.

3. 博士論文初稿(須以中文或英文撰寫)。

The first draft of the doctoral dissertation (written in Chinese or English).

4. 至少一次國際研討會發表口頭論文或壁報論文之證明文件。

Proof of at least one report, in the form of oral or poster, in an international conference.

三、學術型研究生發表 SCI 論文需符合以下規定，始得提出博士學位考試初審：

In the academic track, students must meet the following requirements to

submit the preliminary evaluation of the doctoral degree examination:

- 1.以單獨第一作者發表至少 1 篇 SCI 論文及 1 篇已收到期刊投稿受理證明並經學程會議通過之 SCI 論文，此兩篇論文排名在該領域前 50%；或有 1 篇 Impact Factor ≥ 5 ，且以第一作者發表之原始論文。

Publish at least one first-authored original SCI paper with an impact factor (IF) (either the latest or that at publication) ≥ 5 on the Journal Citation Report (JCR); or two such papers in the top 50% of a relevant field Publish 1 paper and submit 1 article in SCI journals, and be approved in a Program meeting.

- 2.以相同貢獻(equal contribution)方式與他人並列論文第一作者時，該篇論文 IF 須除以 equal contribution 的作者數，所得商數 $IF \geq 5.0$ 者。並且需取得其他共同第一作者之同意書。

When there are more than one first authors with equal contribution to the paper, the IF must be divided by the number of first authors for calculation, while the quotient IF is ≥ 5.0 ; and the consent of other first authors must be obtained.

- 3.研究生發表論文須以醫學科技學院醫學生物科技博士學位學程(Ph.D. Program in Medical Biotechnology, College of Medical Science and Technology, Taipei Medical University)之名義發表，且醫學生物科技博士學位學程須放在第一位，始得以計算。

The paper must be published in the name of the Program (Ph.D. Program in Medical Biotechnology, College of Medical Science and Technology, Taipei Medical University), which must be the first on the affiliation list.

- 4.主指導老師或共同指導老師須為該篇論文之通訊作者；若以共同指導老師為該篇論文之通訊作者，主指導老師須為該篇論文之共同作者；其中共同指導老師須於該篇研究論文投稿前申請並經學程會議通過，否則研究論文不予承認。

When there are two advisors, one of them must be the correspondent author of the paper, and the other must be a co-author. The identification of the co-author must be submitted before the submission of the research paper, and be approved in a Program meeting.

- 5.SCI 論文內容須具基礎內涵及連貫性，且須與博士論文內容相符合。

The published paper must be consistent with the content of the doctoral dissertation.

四、實務型研究生發表 SCI 論文及專利需符合以下規定，始得提出博士學位考試所內初審：

In the practical track, students must meet the following requirements to

submit the preliminary evaluation of a doctoral degree examination:

1. 實務型研究生需發表至少 1 篇 SCI 論文及 1 項專利。

Publish or file at least one SCI paper and one patent.

2. 發表之 SCI 論文其排名在該領域前 50%，且以第一作者發表之原始論文。

The paper must be published as first authored and ranked in the top 50% of a relevant field.

3. 主指導老師或共同指導老師須為該篇論文之通訊作者；若以共同指導老師為該篇論文之通訊作者，主指導老師須為該篇論文之共同作者；其中共同指導老師須於該篇研究論文投稿前申請並經學程會議通過，否則該研究論文不予承認。

When there are two advisors, one of them must be the correspondent author of the paper, and the other must be a co-author; the identification of the co-author must be submitted before the submission of the research manuscript and approved in a Program meeting.

4. 發表之專利需符合以下條件，獲本校事業發展處決議補助之發明專利案，或已獲得之國際發明專利，或已登記之國際發明專利申請案，且列為第一序位發明人。上述之發明專利案最終需經由學程專利審查小組審核通過。

The filed patent must meet the following conditions: an invention patent case approved by the University Office of Business Development, or, an international invention patent that has been obtained, or, a registered international invention patent application. The student must be the first author/inventor. The above-mentioned invention patents must be approved by the Program Patent Committee.

5. 研究生須於修業期間以本學程名義發表論文及以本校名義送審專利始得以計算。

The paper must be published in the name of the Program, and the patent must be filed in the name of the University by the student with an active status.

6. 國際競賽獲獎或產業實習學分可供作審核參考。

International competition awards and industry internship credits can be provided for evaluation.

五、由學程主任組成所內初審委員會進行審核，通過後始可申請博士學位考試。

The Preliminary Evaluation Committee, initiated by the Program Director, conducts the examination. The student must pass the examination before applying for a doctoral degree.

六、如遇特殊狀況(如指導老師遭逢重大病故或藉故延遲研究生論文投稿發表等)，

可提出具體證明送請學程會議通過，經學程會議審核決議。

In case of special circumstances (such as the advisor being delayed by a major illness or delaying the publication of the papers, etc.), specific certificates may be submitted to a Program meeting for review and decision.

第六條 學位考試：

VI. Oral Dissertation Defense

一、申請學位考試前，研究生(外國學生除外)需通過本校「研究生英語認證」。

Before applying for degree exam, postgraduate students (except foreign students) need to pass the "Graduate English Certification".

二、博士學位考試委員由指導教授推薦五至九人，其中校外委員須三分之一以上，由院長依學程主任同意後名單圈選並指定一人為召集人。指導教授及共同指導教授不得擔任召集人，學位考試成績，以七十分為及格，一百分為滿分，並以出席委員評定分數平均決定之。

The Dissertation Defense Committee consisting of five to nine members with more than one third from outside the University are suggested by the student's advisor, elected by the Program Director and approved by the Dean. The Dean elects one member, who is not the advisor or coadvisor, to be convener. An average score greater than 70% is required to pass the Defense.

三、考試通過彙整委員意見及修改論文後，依本校學位考試審查流程及畢業離校程序辦理，得予核發學位證書。

After passing the final defense, student should revise their dissertation according to the suggestions from committee members. The revised dissertation must be approved by the advisor and confirmed the correctness of the format by administration officers. Finally, students must submit the dissertation to the university to apply for their diploma.

第七條 其他未盡事宜，悉依教育部與本校相關規定辦理。

VII. Other unlisted matters are handled according to the Ministry of Education and the relevant regulations of the University.

第八條 本規定經教務會議通過，報請校長核定後公告施行；修正時亦同。

VIII. The implementation of, and amendment to, the above-mentioned regulations are subject to the approval of the Program Affairs Council, College Affairs Council and Academic Affairs Council.