



**UNIVERSITÀ
DI PARMA**

Ph.D. Course in Drug Sciences

**Ph.D. Course in
*Drug Sciences***

**Corso di Dottorato di Ricerca in
*Scienze del Farmaco***

XXXVI Cycle

(Nov 1st, 2020 - Oct 31st, 2023)

**Statement of the Rights and Responsibilities of the Ph.D.
students**

Carta del Dottorato



1. Course description.....	3
2. Definitions, rights and responsibilities	3
2.1. Ph.D. Student (Studiante di dottorato, Dottorando).....	3
2.2. Supervisor (Relatore di tesi) and External Advisor (Co-tutore)	4
2.3. Board of Teachers (Collegio dei Docenti).....	4
2.4. Coordinator (Coordinatore del Dottorato di Ricerca).....	5
2.5. Director of the Department (Direttore di Dipartimento).....	5
3. Requirements of the Course.....	5
3.1. Course organization	5
3.2. Research work, secondment and tutoring activity.....	6
3.3. Educational activities	6
3.4. Final commitments	8
3.5. Course evaluation	8
3.6. Acquisition of the title.....	8
4. Agreement.....	9



1. Course description

The "Corso di Dottorato di Ricerca in Scienze del Farmaco" (Doctorate or Ph.D. Course in Drug Sciences) is organized by the Dipartimento di Scienze degli Alimenti e del Farmaco (Food and Drug Department) at the University of Parma. The Course consists of a research project and complementary activities; it is concluded with the preparation and defense of a Doctoral/Ph.D. thesis.

The Course program takes three years, during which changes of scientific environment are strongly encouraged. It is aimed at the preparation of "Dottori di Ricerca" having scientific knowledge and research experience in the design, discovery, development, production and control of drugs and health products, as well as in the investigation of mechanisms of action for drugs and biomolecules.

The Board of Teachers provides a Supervisor and offers courses and seminars in different scientific areas, with particular focus on medicinal chemistry, pharmaceutical technology, pharmacology and biochemistry. Contributions from different scientific areas are also included, shaping an inter-disciplinary course.

The research project of Ph.D. students has to be consistent with one of the major areas covered by the Course: i. Drug design and synthesis; ii. Biopharmaceutics and drug delivery; iii. Experimental pharmacology and toxicology; iv. Biochemistry, biophysics and molecular biology; v. bio-organic chemistry.

Ph.D. work must be considered as an exclusive full-time employment. [Art.12 c.1 DM 45/2013].

This document contains information about the organization of the Course and represents an agreement among the parts involved; it assumes that all the parts are aware of Italian laws and internal rules about the Dottorato di ricerca (*Regolamento dei corsi per il conseguimento dei dottorati di ricerca* - www.unipr.it).

2. Definitions, rights and responsibilities

2.1. Ph.D. Student (Studente di dottorato, Dottorando)

- Ph.D. Students have access to education, supervision and training. This includes access to Supervisor's lab and research facilities at the Food and Drug Department or other Departments.

- Ph.D. Students have the right to receive evaluation of their progress and to be informed of the criteria upon which the evaluation is based. Students should also be provided with opportunities to discuss such evaluations with their Supervisors. Reasonable warning should be provided in advance of dismissal based on failure to make satisfactory academic progress.

- Ph.D. Students have the right that their contribution to results of research activity is acknowledged. The PhD student, the Supervisor and other relevant parties involved in the research activity have to discuss extensively regarding the expectations for student contributions and the nature of the acknowledgement. Ph.D. students and their Supervisors must follow the guidelines of the University of Parma about good research practice (*Linee Guida per la Buona Pratica Scientifica e Disseminazione della Ricerca* - www.unipr.it).

- Ph.D. Students of each cycle of the Course elect a representative who participates to the meetings of the Board of Teachers to advise the board about organisational and didactical issues.

- Ph.D. Students must know and accept all the regulations of the University of Parma (<https://www.unipr.it/ateneo/albo-online/regolamenti>);



- Ph.D. Students have the responsibility to keep informed about the requirements of their program and to dedicate appropriate effort and time to meet these requirements; in particular, they have the responsibility to fulfill their commitments and duties regarding research and complementary activities.

- Ph.D. Students have the responsibility to understand and fulfill their role in developing and maintaining a professional relationship with their Supervisor. This includes the responsibility for communicating regularly with him/her, maintaining a mutually agreed schedule of meetings, and informing supervisor about: the current status of their work; any expected deviations from the agreed program of studies; any unanticipated absences.

- Ph.D. Students have the responsibility to recognize the contributions to their research results made by their supervisor and other colleagues. This includes maintaining confidentiality until results have been published, and to agree with the Supervisor any kind of disclosure.

- The Ph.D. student has the responsibility to collect documents attesting his/her participation to complementary activities, and to report these activities to the Supervisor and the Board of Teachers.

- For five years after the end of the Course, the Dottore di Ricerca agrees to fill a questionnaire about his/her professional career.

2.2. Supervisor (Relatore di tesi) and External Advisor (Co-tutore)

At the beginning of the Course, a Supervisor (Relatore di tesi) is assigned to each Ph.D. student by the Board of Teachers. The Supervisor is a member of the Board of Teachers. If significant activity is performed by the Ph.D. Student out of the Supervisor's lab, an External Advisor (Co-tutore) can support his research work, but the Ph.D. Student still has to refer to the Supervisor for what concern the Course programme.

The Supervisor has the responsibility to agree with the Ph.D. student a research plan, to follow his/her progress and to agree with him the schedule of his/her complementary activities.

The Supervisor has the responsibility to guarantee the conditions that allow to perform research work regularly. This includes access to equipment, facilities, material and documentation. This responsibility is shared with the External Advisor for the research activity performed by the Ph.D. student out of the Supervisor's Department.

The Supervisor discusses with the Board of Teachers about the progress of research work and complementary activities, in order to admit the Ph.D. student to the following year of the Course and to the final examination.

Before the end of the course, the Supervisor proposes to the Board of Teachers two external evaluators for the Ph.D. thesis.

When the collaboration between a Ph.D. student and his/her supervisor is compromised, each of them can ask for a re-assignment to the Coordinator, who tries to settle the dispute. If, for any reason, the collaboration cannot be restored, the Coordinator asks the Ph.D student and the Supervisor to express their points of view in written documents and presents these documents to the Board of Teachers. The Board can re-assign the Ph.D. student to another Supervisor or take any different decision; the decision taken by the Board of Teachers is considered to be final.

2.3. Board of Teachers (Collegio dei Docenti)

The Board of Teachers takes care of:

- assigning a Supervisor to each PhD student;
- stating the requirements of research work and complementary activity;
- approving, at the end of every academic year, the Ph.D. student's research work and complementary activity, admitting him to the next year in case of positive response;



- approving, at the end of the last academic year, the Ph.D. student's research work and complementary activity, admitting him to the final evaluation in case of positive response:
- assigning thesis evaluators and reviewers for the additional title of Doctor Europaeus;
- proposing the Commission for final evaluations to the Magnifico Rettore.

The members of Board of Teachers must participate to formative and complementary activities, teaching, courses and seminars. They must produce relevant research results in the scientific fields object of the Ph.D. Course.

The list of Board of Teachers is updated every year and is published on the Course website.

2.4. Coordinator (Coordinatore del Dottorato di Ricerca)

The Coordinator of the Course:

- updates the composition of the Board of Teachers and summons its meetings;
- fills the forms to ask for activation of new cycles and to prepare the call for new Ph.D. students;
- organizes complementary activities on general skills, scientific reporting and foreign language;
- authorizes secondment of Ph.D. students in foreign countries; for periods higher than six months, an opinion by the Board of Teachers is required;
- authorizes Ph.D. students to teaching activity;
- authorizes Ph.D. candidate to deposit his/her thesis;
- takes relationships with Institutes and Companies to favor Ph.D. activity and employment.

For temporary vacation, these roles are assigned to a vice-Coordinator.

2.5. Director of the Department (Direttore di Dipartimento)

The Director of the department guarantees that the conditions of learning, teaching and research that are appropriate and reasonable for their discipline. This includes financial support for research work, participation in complementary activity and travelling, provided that the relative items of expenditure are funded.

3. Requirements of the Course

3.1. Course organization

The Course takes three years. It requires accomplishment of a **research work** and **complementary activities**.

Ph.D. students undertake a research project, working with a Supervisor, and follow specific courses and other educational activities. Educational activities concur to the accumulation of credits necessary to complete the Ph.D. Programme. In the European Credit Transfer and Accumulation System (ECTS), 60 ECTS credits are the equivalent of a full year of study or work. Considering that educational activities require additional time of individual study, the Board of Teachers has established on February 20th, 2020 that one ECTS credit (briefly, ECTS) can be achieved attending 6 hours of lessons or seminars, or participating to 1 day of National or International Schools or Workshops. For research activity, one ECTS corresponds to 25 hours (approximately 5 ECTS per month of full-time work).



To complete her/his 3-year Programme, a Ph.D. student must accumulate 180 ECTS, including **at least 20 ECTS in educational activities**. A document certifying the activities accomplished during each year must be delivered by the Ph.D. Student to her/his Supervisor, who will present it to the Board of Teachers for admission to the next years of the Programme or to the final examination.

Each Ph.D. student agrees with his/her Supervisor a research plan and a schedule of complementary activities, fulfilling the requirements stated by the Board of Teachers.

Under specific agreements between University of Parma and a partner University, it is possible to follow a joint Ph.D. Program.

3.2. Research work, secondment and tutoring activity

At the beginning of the Course, Ph.D. students present to the Coordinator a written description of their research plan, approved by their Supervisors.

The research plan will include:

- a title;
- a brief description of the state of the art;
- the specific objectives and methods of the project;
- expected results, phases and milestones.

Each Ph.D. student delivers a seminar to the Board of Teachers and to other PhD students, generally in January or February ("Winter Seminars"); the first one is dedicated to the research plan, the others to research progresses.

The Ph.D. student interacts with his/her supervisor to check research progress, to analyze results and to discuss possible modifications of the plan.

Before the end of each academic year, Ph.D. students present to their Supervisors and to the Board of Teachers a written report about research progress and possible plan modifications. Admittance to the next year of the Course depends on a positive evaluation of this report.

At least a draft for a publication or patent application is expected to be presented to the Supervisor within the end of the second year.

A secondment in a distinguished external institution, possibly in a foreign Country, for a period of time of 3-18 months, is strongly encouraged. Ph.D. student's mobility can be supported by the ULLA mobility program, Erasmus program or other programs organized by the University. Secondments in foreign Countries have to be approved by the Coordinator or, for periods longer than 6 months, by the Board of Teachers.

Ph.D. students must ask for authorization from the Coordinator to perform teaching or tutoring activity. This may consist of: complementary teaching in institutional courses, within 40 hours per year; tutoring of students for their graduation thesis. These activities do not imply any obligation for the University.

3.3. Educational activities

Educational activities attended by Ph.D. students during the three years of the Programme are distributed among different kinds of activities, following approximately the partition detailed in the table below. Significant deviations from this plan, agreed in advance by the Ph.D. student and her/his Supervisor, have to be approved by the Board of Teachers.



Educational Activity	ECTS
Seminars	4
National or International Schools / Workshops	8
Courses on specific topics	4
Interdisciplinary courses	4

Seminars

Every year each Ph.D. student must present a seminar in English to other Ph.D. students and to the Board of Teachers, describing and explaining a scientific issue related to her/his research activity or field of interest, agreed with her/his Supervisor. These are called the "Summer Seminars" and are educational activities aimed at developing communication skills in science and technology. Summer Seminars (generally delivered in July or September) are scheduled by the Board of Teachers and the Calendar is published on the Course website. If a Ph.D. student is abroad for his secondment, she/he should deliver the seminar in the site of secondment, communicating the title and date of the seminar to her/his Supervisor. Active participation to the seminars is mandatory for all other Ph.D. students.

Ph.D. Students can also attend, to fulfill the requirements for educational activities, seminars offered by the University or by other Institutions, including those delivered by the Board of Teachers members or by invited teachers.

Participation to the seminars must be certified through a form reporting the date, speaker and duration of the seminars, signed at the end of each seminar day by the speaker or a member of the Board of Teachers.

One ECTS is assigned every (approximately) 6 hours of seminars attended or delivered by the Ph.D. student.

Schools and workshops

Every two years, the ULLA European university consortium for pharmaceutical sciences (Uppsala, London, Leiden-Amsterdam, Copenhagen, Paris, Parma, Leuven, Helsinki; <https://ullapharmsci.org>) organizes a one-week ULLA Summer School offering, in parallel sessions, one- or two-days courses on specific and interdisciplinary topics. Free participation to at least one ULLA Summer School is offered to each Ph.D. student in Drug Sciences. Participation to another National or International Schools or Workshops is strongly encouraged, with participation fees covered by Supervisor's funds.

One ECTS is assigned for each day of School or Workshop attended by the Ph.D. student.

Specific and interdisciplinary courses

Every academic year, short courses on specific or interdisciplinary topics, specifically addressed to Ph.D. students in Drug Sciences, are offered by teachers of the Board and by external teachers. These courses are approved by the Board of Teachers and their description is published in the website.

The Ph.D. School in Biological, Drug and Food Sciences and other Institutions at the University of Parma offer other specific and interdisciplinary courses, including interdisciplinary ones (e.g. regarding language and computer skills, research management/networking and intellectual property). These courses are also described in the website.

The number of ECTS assigned for each course specifically addressed to Ph.D. students is reported in course description.



Ph.D. students are also encouraged to consider other courses that can improve their scientific and technical growth. Courses from post-graduate curricula, and in some cases also from undergraduate ones, can concur to ECTS accumulation for educational activities. Assignment of the suitable number of ECTS is proposed by the Ph.D. student and her/his Supervisor to the Board of Teachers, considering the duration of the course, its level and the congruity with scientific areas covered by the Ph.D. Programme in Drug Sciences.

3.4. Final commitments

At the end of the third year, the Ph.D. student presents to his Supervisor and to the Board of Teachers a report describing:

- the research work performed and the main results achieved;
- the complementary activities performed and attended;
- a list of publications, congress reports and acknowledgments.

The Ph.D. student produces a thesis with the results of research work. The thesis describes, in an original way, the research work performed by the Ph.D. Student, the results achieved, including those of collaborative work, and the scientific context. Within the thesis, other people's work must be properly attributed and acknowledged, avoiding any kind of plagiarism. While avoiding copyright infringements in reproducing published work, a Ph.D. student can include work and results that has been previously published, provided that he appears as a co-author and that the publication is properly referenced.

3.5. Course evaluation

At the end of the Course, Ph.D. students have to compile an anonymous evaluation form.

After the end, another form with questions about professional career will be sent to the "Dottori di Ricerca" for 5 years after their title achievement.

3.6. Acquisition of the title

On the basis of the report presented by the Ph.D. student, and of the Supervisor's advice, the Board of Teachers admits the Ph.D. Student to the final evaluation.

Before the final examination, the thesis has to be refereed by two external evaluators, who express a written judgment. The evaluators can accept the thesis, allowing its presentation for the final evaluation, or delay it for no more than six months, asking for integrations or amendments. In the last case, the thesis is forwarded to final examination with an additional judgment of the evaluators about integrations and amendments.

Final evaluation is public and made by a Commission appointed following University rules. At the end of the final evaluation, the thesis can be approved or rejected. (See Art. 8 c. 6 DM 45/2013).

Under application by the Ph.D. candidate and favorable opinion by the Board of Teachers, University of Parma can emit the Certificate of "Doctor Europaeus", as defined by the European University Association, when (see *Regolamento dei corsi per il conseguimento dei dottorati di ricerca* - www.unipr.it):

- 1) the Ph.D. thesis work includes a secondment of at least three months in a foreign EU Country;
- 2) the Ph.D. student presents two positive judgments by researchers from two foreign EU Countries;
- 3) the Commission for the final evaluation includes at least one member from a foreign EU Country;
- 4) during the final evaluation, thesis is discussed in Italian and in another language of a foreign EU Country.



4. Agreement

We, the undersigned, hereby declare to accept what stated in the document "Statement of the Rights and Responsibilities of Ph.D. Students" for the Ph.D. Course in Drug Sciences - XXXV cycle.

The **Ph.D. student**, _____

email: _____

Date Sign here:

The **Supervisor**, Prof. _____

Date Sign here:

The **External Advisor**, _____

Date Sign here:

The **Coordinator**, Prof. Marco Mor

Date Sign here:

The **Director of the Food and Drug Department**, Prof. Gabriele Costantino

Date Sign here: