

# M280Q Master Cancer Research: Course Curricula 2025-2026

## Materia 1: Mandatory

### Advances in the Molecular and Cellular Mechanisms of tumorigenesis (9 ECTS)

Code	Title	ECTS	Semester
576351	Molecular and Cellular Mechanisms of Tumorigenesis (I): cell transformation	3	1st
576352	Molecular and cellular Mechanisms of Tumorigenesis (II): Stroma interaction	3	1st
576353	Molecular and Cellular Mechanisms of Tumorigenesis (III): Systemic Interactions	3	1st

## Materia 2: Mandatory

### Translational and Clinical Research in Cancer (9 ECTS)

Code	Title	ECTS	Semester
576354	Translational research in cancer	3	1st
576355	Therapies in hemato/oncology	3	1st
576356	Basic principles in clinical trials design in cancer	3	1st

## Materia 3: Mandatory

### How to Conduct a Research Project in Cancer (3 crèdits)

Code	Title	ECTS	Semester
576357	Writing a Proposal and Open Science	3	2nd

## Materia 4: Methodologic Optative (choose 3: 9 ECTS) \*Subjects not in English

Code	Title	ECTS	Semester
569904	Genomics and Proteomics*	3	1st
569905	Cell Cultures and Cell Engineering*	3	1st
576361	Advanced Fluorescence Microscopy Techniques	3	1st
576362	High content screening: image and data analysis of cell populations	3	1st
576363	Bioinformatics applied to Cancer	3	1st

Additional Methodological course: “**Curs de Formació del Personal Usuari d’Animals d’Experimentació**”\*

It is conducted at CCIUB. Once completed, it can be recognized as 3 ECTS. Recognized without affecting the average grade of the transcript. More information: <http://www.ccitub.edu/ES/cursuea15.html>. **If you apply for an official scholarship, you must enroll in 60 credits. If you want to take this course, you can do so independently without needing to seek recognition.**

## Materia 5: Non-Methodologic Optative (choose 2: 6 ECTS)

Code	Title	ECTS	Semester
576365	Scientific Seminars	3	2nd
576366	Epigenetics Applied to Biomedicine	3	1st
576368	Regenerative Medicine and Stem Cells Research	3	1st
569888	Scientific Communication	3	1st
573117	Ageing and Senescence	3	1st
576371	Immunoncology	3	1st

## Final Master Thesis

Code	Title	ECTS	Semester
576358	Final Master Thesis Work	24	2nd