M280Q **Master Cancer Research: Course Curricula**

Materia 1: Mandatory
Advances in the Molecular and Cellular Mechanisms of tumorogenesis (9 ECTS)

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

Materia 2: Mandatory
Translational and Clinical Research in Cancer (9 ECTS)

Code	Title	ECTS	Semester
576354	Traslational 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	Writting a Proposal and Open Science	3	2nd

Materia 4 and 5: choose a total of 15 ECTS (5 subjects)

Materia 4: Methodologic Optative (choose between: 6-9 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 CCiTUB. Once completed, it can be recognized as 3 ECTS of Methodological optative materia. Recognized without affecting the average grade of the transcript. More information: http://www.ccit.ub.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 between: 6-9 ECTS)

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

Final Master Thesis

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