

PhD in Biomedical Sciences

Courses for each specialisation

Cancer Biology and Oncology

Mandatory	ECTS
IOR lecture courses (10/year) <i>total required: 20 lectures (it is possible to attend more lectures)</i>	0.5 ECTS for 10 lectures <i>total required: 1 ECTS (it is possible to have more ECTS recognised)</i>
Journal Club presentations (2/year) <i>total required: 6 presentations</i>	1 ECTS for 2 presentations <i>total required: 3 ECTS</i>
Recommended	ECTS
Basic and Advanced Flow Cytometry	0.25 ECTS
Practical aspects of Next Generation Sequencing and its applications	0.5 ECTS
IOSI internal lectures (10 lectures)	0.5 ECTS

Cardiovascular Sciences

Mandatory	ECTS
Biomedical Sciences lecture courses (10/year) <i>total required: 20 lectures (it is possible to attend more lectures)</i>	0.5 ECTS for 10 lectures <i>total required: 1 ECTS (it is possible to have more ECTS recognised)</i>
Journal Club presentations (2/year) <i>total required: 6 presentations</i>	1 ECTS for 2 presentations <i>total required: 3 ECTS</i>
Retreat CVRC	0.5 ECTS
Recommended	ECTS
Extracellular vesicles and intercellular communication	0.25 ECTS

CVRC Annual Meeting	0.5 ECTS
---------------------	----------

Computational Biomedicine

Mandatory	ECTS
IOR or IRB lecture courses (10/year)	0.5 ECTS for 10 lectures
<i>total required: 20 lectures (it is possible to attend more lectures)</i>	<i>total required: 1 ECTS (it is possible to have more ECTS recognised)</i>
Recommended	ECTS
Computational Biology & Drug Design	2 ECTS
Software Tools for Computational Science	1 ECTS
Mathematics of Machine Learning (and AI)	4 ECTS
Machine learning (M. Wand)	4 ECTS

Drug Sciences

Mandatory	ECTS
Bioinformatics	1.5 ECTS
Computational Biology & Drug Design	2 ECTS
Recommended	ECTS
Machine learning (M. Wand)	4 ECTS
Introduction to mass spectrometry-based proteomics	0.25 ECTS
How to write and publish a scientific paper	1.5 ECTS

Immunology and cell Biology

Mandatory	ECTS
IRB lecture courses (10/year)	3 ECTS/year
<i>total required: 20 lectures (it is possible to attend more lectures)</i>	<i>total required: 6 ECTS (it is possible to have up to 9 ECTS recognised)</i>
Journal Club presentation (1/year)	1 ECTS/year
<i>total required: 2 presentations</i>	<i>total required 2 ECTS; possible: 3 ECTS</i>
Recommended	ECTS

Introduction to mass spectrometry-based proteomics	0.25 ECTS
Immunology course	1 ECTS
Microscopy applications for immunological research	1.5 ECTS
Rheuma Lab	1 ECTS

Musculoskeletal Sciences and Regenerative Medicine

Mandatory	ECTS
Regenerative Medicine & musculoskeletal sciences	3 ECTS
Journal Club RMT Lab (2/year)	1 ECTS
Recommended	ECTS
ICRS Focus meeting	1.5 ECTS

Neurosciences

Mandatory	ECTS
Seminars in Biomedical Neurosciences (10/year) <i>total required: 20 lectures (it is possible to attend more lectures)</i>	0.5 ECTS for 10 lectures total required: 1 ECTS (it is possible to have more ECTS recognised)
Journal Club presentations (2/year) <i>total required: 6 presentations</i>	1 ECTS for 2 presentations total required: 3 ECTS
Recommended	ECTS
BENEFRI workshops (1/year)	1.5 ECTS (<i>total 4.5 ECTS</i>)
Poster presentation SSN	0.5 ECTS

Public Health

Mandatory	ECTS
SSPH+ lectures	<i>(not set, to be chosen in the SSPH+ programme)</i>
How to write and publish a scientific paper	1.5 ECTS
Recommended	ECTS
Fundamental concepts in Epidemiology	2 ECTS

Foundations of PH Sciences	2 ECTS
Systematic Reviews and Meta-Analysis: a Practical Approach	1 ECTS
Epidemiological data analysis strategy	2 ECTS
Introduction to Statistical Software Stata and Electronic Data Capture Software RedCap	1 ECTS
Qualitative Health Research – Basic module	1 ECTS
SSPH+ Summer School – lecture series	1 ECTS