		Advanced and Specialized Uses of Digital Tools		
		Objectives: To provide foundational knowledge in immunology, biostatistics, and laboratory techniques.		
BCC1	M1	S1	9 ECTS	
		Molecular Foundations of Immunotherapies (in French)	3	Anne-Sophie CHRETIEN
		Biostastatic in health science	3	Herve KOVACIC
		Laboratory Practice I	3	Christophe DUBOIS
		S2	12 ECTS	
		Internship, Report Submission, and Thesis Defense	6	Christophe DUBOIS
		Biosis	3	Eric DURAND
		Laboratory Practice II	3	Christophe DUBOIS
		S3	9 ECTS	
	M2	Introduction: Descriptive Statistics Applied to Biomarkers	3	Pierre SUCHON
		Ethics for Modern Artificial Intelligence in Healthcare II	3	DUBOIS + GILSON
		Bibliographic Project	3	Christophe DUBOIS
		S4	30 ECTS	
		Internship and Thesis	30	Christophe DUBOIS

		Advanced and Specialized Uses of Digital Tools		
		Objectives: To train students in fundamental tools for programming, data science, and digital modeling applied to health biology data.		
BCC2	M1	S1	12 ECTS	
		Fundamentals of Digital Sciences	3	Matthieu GILSON
		Introduction to Data Science	6	Ioanna MILOU
		Introduction to Programming	6	Zed LEE
		S2	12 ECTS	
		Applied Mathematics and Algorithms for Data Analysis	3	Matthieu GILSON
		Biological Data: Fundamental Concepts	3	Pierre SUCHON
		Natural Language Processing	3	Hercules DALIANIS
		Artificial Intelligence II	3	Letizia MILLI
		S3	9 ECTS	
	M2	Machine Learning: Application to Single-Cell Data Analysis	6	Anne Sophie CHRETIEN
		Advanced Programming	3	Rafika BOUTALBI

		Specialized Communication for Knowledge Transfer		
		Objectives: Strengthen the ability to synthesize, communicate, and analyze scientific publications.		
BCC3	M1	S1	6 ECTS	
		Oral Presentation and Communication	3	Christophe DUBOIS
		Article Analysis	3	Christophe DUBOIS
		S2	12 ECTS	
		Professional Project	3	Matthieu GILSON
		Ethics for Modern Artificial Intelligence in Healthcare I	3	DUBOIS + GILSON
		Natural Language Processing	3	Hercules DALIANIS
		Artificial Intelligence II	3	Letizia MILLI

		Development and Integration of Advanced Specialized Knowledge		
		Objectifs : Approfondir l'expertise en IA et biomédecine pour résoudre des problématiques complexes en recherche ou en innovation.		
BCC4	M2	S3	12 ECTS	
		Bioinformatics and Mutational Analyses (BAM)	3	Christophe BEROUD
		Image Analysis – Biomarker Diagnostics	3	Kathia CHAUMOITRE
		Open Science and Reproducible Science	6	Christophe BEROUD