

## Study Plan for the Double Diploma in Génétique Moléculaire

### A. University of Padova as University of first enrollment (PADOVA students)

#### A.1. curriculum Molecular Biology

YEAR	University	COURSE	ECTS credits	CORRESPONDENCE	
				<i>UNIPD</i>	<i>PARIS</i>
1 <sup>st</sup>	PADOVA	Cell biology	9	BIO/06	UE1-UE33
		Biochemistry	8	BIO/10/1 2	
		Applied statistics	6	SECS- S/02	
		Molecular and cell biology of plants	9	BIO/01/0 4	
		Molecular biology of development	8	BIO/06/1 1/18	
		Genomics and NGS Data analysis	9	BIO/11/1 8	
		Neurobiology	10	BIO/09/1 8	
		English Language B2 (Productive Skills)	2	Other activities	
			<b>61</b>		

YEAR	University	COURSE	ECTS credits	CORRESPONDENCE	
				<i>PARIS</i>	<i>UNIPD</i>
2 <sup>nd</sup>	PARIS	Models in genetic disease research, 4 ECTS (Erasmus Module)	9	Bloc d'UE obligatoires	Models in genetic disease research, 4 ECTS, BIO/18 (Erasmus Module)
		Bibliography Module, 5 ECTS			Final Thesis Part A, 5 ECTS
		UE optionelles 1 5 modules, 3 ECTS, within "Master in Sciences , Santé et Application- mention Génétique"	15	UE optionelles 1	12 ECTS free 3 ECTS "characterising" (various SSD)
		UE optionelles 2 2 modules, 3 ECTS, within "Master in Sciences , Santé et Application- mention Genetique"	6	UE optionelles 2	6 ECTS "related" (SSD BIO/18)
		Stage de recherche Traineeship within a laboratory of the " Master de Sciences Santé et Application mention Genetique", or at UNIPD	30	Stage de recherche	Final Thesis Part B
			<b>60</b>		

## A.2. Curriculum Bioinformatics

YEAR	University	COURSE	ECTS credits	CORRESPONDENCE	
				<i>UNIPD</i>	<i>PARIS</i>
1 <sup>st</sup>	PADOVA	Cell biology	9	BIO/06	UE1-UE33
		Fundamentals of information systems	12	INF/01	
		Applied statistics	6	SECS-S/02	
		Molecular biology of development	8	BIO/06/11/18	
		Genomics and NGS Data analysis	9	BIO/11/18	
		Microbial metagenomics	6	BIO/11/13	
		Computational anthropology	6	BIO/08	
		English Language B2 (Productive Skills)	2	Altre attività	
		French Language	2	Altre attività	
		<b>60</b>			

YEAR	University	COURSE	ECTS credits	CORRESPONDENCE	
				<i>PARIS</i>	<i>UNIPD</i>
2 <sup>nd</sup>	PARIS	Models in genetic disease research, 4 ECTS (Erasmus Module)	9	Bloc d'UE obligatoires	Models in genetic disease research, 4 ECTS, BIO/18 (Erasmus Module)
		Bibliography Module, 5 ECTS			Final Thesis Part A, 5 ECTS
		UE optionnelles 1 5 modules, 3 ECTS, within "Master in Sciences , Santé et Application- mention Génétique"	15	UE optionnelles 1	9 ECTS free 6 ECTS (various SSD)
		UE optionnelles 2 2 modules, 3 ECTS, within "Master in Sciences , Santé et Application- mention Genetique"	6	UE optionnelles 2	6 ECTS "characterising" (various SSD)
		Stage de recherche Traineeship within a laboratory of the " Master de Sciences Santé et Application mention Genetique", or at UNIPD	30	Stage de recherche	Final Thesis Part B
		<b>60</b>			

**B. Université de Paris as University of first enrollment (FRENCH students)**

YEAR	University	COURSE	ECTS credits	CORRESPONDENCE	
				<i>PARIS</i>	<i>UNIPD</i>
1 <sup>st</sup>	PARIS	Génomique, génétique humaine et bioinformatique	6	UE1	BIO/11/18
		Régulation de l'expression génique et épigénétique	5	UE2	BIO/18
		Génétique du développement	5	UE3	BIO/06
		Biologie et pathologies moléculaires et cellulaires	4	UE4	BIO/06
		Approches expérimentales	6	UE5-UE10	BIO/06/11/18
		Communication scientifique	4	UE11	Other activities
		Académie vivante	2	UE12	Other activities
		6 modules, 2 ECTS	12	UE13-UE32	“Characterising” SSD
		Stage	16	UE33	8 ECTS free 8 ECTS other activities
		<b>60</b>			

YEAR	University	COURSE	ECTS credits	CORRESPONDENCE	
				<i>UNIPD</i>	<i>PARIS</i>
2 <sup>nd</sup>	PADOVA	Models in genetic disease research, 4 ECTS (Erasmus Module)	4	BIO/18	Bloc d'UE obligatoires
		Bibliography Module, 5 ECTS	5	Final Thesis Part A, 5 ECTS	
		<i>1 compulsory exam among</i> *: <ul style="list-style-type: none"> <li>▪ Biochemistry, 8 ECTS</li> <li>▪ Human physiology, 9 ECTS</li> <li>▪ Biochemistry of diseases, 8 ECTS</li> </ul>	14/15	BIO/12 BIO/09 BIO/12	
		<i>1 compulsory exam among</i> *: <ul style="list-style-type: none"> <li>▪ Computational anthropology, 6 ECTS</li> <li>▪ Epigenetics and epigenomics, 6 ECTS</li> <li>▪ Applied statistics, 6 ECTS</li> </ul>		BIO/08 BIO/18 SECS-S/02	
		Italian Language (or another chosen activity)	2	A scelta	UE optionelles 1
		<i>1 compulsory exam among</i> *: <ul style="list-style-type: none"> <li>▪ Molecular genetics</li> <li>▪ System biology</li> <li>▪ Integrative biology and network analysis</li> </ul>	6	BIO/18	
		Final Thesis Part B (including traineeship within a laboratory at UNIPD or in Paris)	30	Final Thesis Part B	Stage de recherche
				<b>60</b>	

\* The list of the proposed courses may change as defined yearly by the teaching syllabus