

I Year

BIOLOGY OF GAMETES and IVM& IVF techniques, prof. Barboni e Gioia

		REPRODUCTIVE BIOTECHNOLOGIES 2022/2023					BIOLOGY OF GAMETES and IVM& IVF techniques				
		Prof. B. Barboni (5 CFU) Prof. Gioia (6 CFU)									
		I Week 6-10 February 2023					II Week 13-17 February 2023				
		Monday 6 february	Tuesday 7	Wednesday 8	Thursday 9	Friday 10	Monday 13	Tuesday 14	Wednesday 15	Thursday 16	Friday 17
9.00											
9.30											
10.00	UNIT-I Course introduction	UNIT-I* Overwiev oogenesis	LAB Cocs denudation and oocyte fixation	LAB Nuclear stage assessment		UNIT II Post natal oogenesis	UNIT II post natal oogenesis	Lesson Gioia 9.30- 11.30	UNIT II Post natal oogenesis	De briefing*	Intermediate Test Unit I Barboni***
11.00											
12.00											
13.00											
14.00	LAB isolation of COS using a cutting based methods	LAB Ovary selection and isolation of COCs using a aspiration based method	UNIT-I Overview	LESSON-I Briefing on previously lesson and homework		LAB Gioia collection of COCs and IVM (pig model)		LAB Gioia evaluation of COC expansion and oocyte denudation and fixation	Lab Gioia (evaluation of pig IVM oocytes)		
15.00											
16.00											
17.00											

	III Week 20-24 February 2023					IV Week 27 February-3 March 2023								
	Monday 20 february	Tuesday 21	Wednesday 22	Thursday 23	Friday 24	Monday 27	Tuesday 28	Wednesday 1	Thursday 2	Friday 3				
9.00	Lab Gioia collection of COCs and IVM (pig model)	UNIT III Fetal Oogenesis I	Lesson Gioia 9.30-11.30	Lab Gioia (evaluation of pig IVM/IVF oocytes)	Intermediate test Gioia			Lesson Gioia h.9.30-11.30	Lab* Gioia + debriefing Gioia	Intermediate Test Unit II Barboni + Intermediate test Gioia				
10.00														
11.00														
12.00														
13.00		De briefing*												
14.00	h.14.30-16.30 Lesson Gioia		Lab Gioia (IVF of IVM oocytes)			Lab Gioia *		Lab Gioia *	De briefing*	*the lab activities of the last week will be defined as needed based on the skills that students achieved during the previous weeks				
15.00														
16.00														
17.00														

CI MOLECULAR MARKERS IN REPRODUCTION

Prof. Battista e Rapino

BHR: BIOMARKERS IN HUMAN REPRODUCTION

TBI: TECHNIQUES FOR BIOMARKER IDENTIFICATION IN REPRODUCTION

Week 6-10 March

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9.00-10.00				Laboratory TBI Motti	TBI
10.00-11.00			BHR		TBI
11.00-12.00		BHR	BHR		
12.00-13.00		BHR	BHR		
14.00-15.00	BHR	TBI		TBI	
15.00-16.00	BHR	TBI		TBI	
16.00-17.00	BHR	TBI		TBI	
17.00-18.00					

Week 13-17 March

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9.00-10.00			Laboratory BHR Motti	Laboratory TBI Motti	TBI
10.00-11.00					TBI
11.00-12.00		BHR			
12.00-13.00		BHR			
14.00-15.00	BHR	TBI	Laboratory BHR Motti	TBI	
15.00-16.00	BHR	TBI		TBI	
16.00-17.00	BHR	TBI		TBI	
17.00-18.00					

Week 20-24 March

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9.00-10.00	Seminar MMR		Laboratory BHR Motti	Laboratory TBI Motti	TBI
10.00-11.00					TBI
11.00-12.00		BHR			
12.00-13.00		BHR			
14.00-15.00	BHR	TBI	Laboratory BHR Motti	TBI	
15.00-16.00	BHR	TBI		TBI	
16.00-17.00	BHR	TBI		TBI	
17.00-18.00					

Week 27-31 March

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9.00-10.00	BHR	Laboratory (TBI) Motti	BHR	Peer-review activity MMR	
10.00-11.00	BHR		BHR		
11.00-12.00	BHR				
12.00-13.00	BHR				
14.00-15.00	Seminar MMR				
15.00-16.00					
16.00-17.00					
17.00-18.00					

ANDROLOGY I Prof. Contri

	Monday	Tuesday	Wednesday	Thursday	Friday
	24/04/2023	25/04/2023	26/04/2023	27/04/2023	28/04/2023
9.30-10.30			Andrology I - Theory	Andrology I - Theory	Andrology I - Theory
10.30-11.30			Andrology I - Theory	Andrology I - Theory	Andrology I - Theory
11.30-12.30			Andrology I - Theory	Andrology I - Theory	Andrology I - Theory
14.00-15.00			Andrology I - Theory	Andrology I - Theory	
15.00-16.00			Andrology I - Theory	Andrology I - Theory	
16.00-17.00			Andrology I - Theory	Andrology I - Theory	

	Monday	Tuesday	Wednesday	Thursday	Friday
	01/05/2023	02/05/2023	03/05/2023	04/05/2023	05/05/2023
9.30-10.30		Andrology I - Practice	Andrology I - Practice	Andrology I - Theory	Test
10.30-11.30		Andrology I - Practice	Andrology I - Practice	Andrology I - Theory	Test
11.30-12.30		Andrology I - Practice	Andrology I - Practice	Andrology I - Theory	
14.00-15.00		Andrology I - Practice	Andrology I - Practice	Andrology I - Theory	
15.00-16.00		Andrology I - Practice	Andrology I - Practice	Andrology I - Theory	
16.00-17.00		Andrology I - Practice	Andrology I - Practice	Andrology I - Theory	

	Monday	Tuesday	Wednesday	Thursday	Friday
	08/05/2023	09/05/2023	10/05/2023	11/05/2023	12/05/2023
9.30-10.30	Andrology I - Practice	Andrology I - Practice	Andrology I - Theory		
10.30-11.30	Andrology I - Practice	Andrology I - Practice	Andrology I - Theory		
11.30-12.30	Andrology I - Practice	Andrology I - Practice	Andrology I - Theory		
14.00-15.00	Andrology I - Practice	Andrology I - Practice			
15.00-16.00	Andrology I - Practice	Andrology I - Practice			
16.00-17.00	Andrology I - Practice	Andrology I - Practice			

Exam 11th and 12th May 2023

CM EMBRYOLOGY (6 CFU), 48 h, Prof. Marta Czernik

15 May – 1 June 2023

Theoretical lessons: 15 – 26 May 2023;

Theoretical and practical lessons 29 May – 2 June 2023

First scheduled exam week: 5 – 9 June 2023

Lezioni pratiche sono previste nell'aula di coltura cellulare al 4° piano.

Assistents to the lessons: Prof. Loi; Dr Luca Palazzese

Week 15 - 19 May 2023

Time	Monday 15.05.2023	Tuesday 16.05.2023	Wednesday 17.05.2023	Thursday 18.05.2023	Friday 19.05.2023
9.00-11.00	Introduction to the course	Embryonic development in Birds	Fecondation and the origin of a new individual	Placental development	I Intermediate test
11.00-13.00	What developmental biology entails Key concepts in developmental biology Teoria	Sea urchin and mammals Development in amphybian and Zebrafish	Zygotic genome activation, chromatin remodeling	Mammalian embryo: cleavage,	

Week 22 -26 May 2023

Time	Monday 22.05.2023	Tuesday 23.05.2023	Wednesday 24.05.2023	Thursday 25.05.2023	Friday 26.05.2023
9.00-11.00	Monoparental embryos	Cloning	Embryo splitting,	Transgenic animals	II Intermediate test
11.00-12.00	Genomic Imprinting	Cloning	Blastomere separation	Transgenic animals	
12.00-13.00	Genomic Imprinting	Cloning	Blastomere separation	Transgenic animals	
12.00-13.00	Mammalian embryo: cleavage,	Cloning	Embryo biopsy	Transgenic animals	

Week 29 May – 1 June 2023- PLEASE, note that the laboratory practical might change according with the availability of biological material.

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09.00-13.00	Microcapillars preparation	Oocyte Manipulation	Somatic Cell Nuclear Transfer	Embryo Biopsy	Final test

CRYOBIOLOGY (Bernabò/Dufrusine)

	5/06	6/06	7/06	8/06	9/06
9.00-10.00	Dufrusine	Dufrusine	Bernabò	Dufrusine	Dufrusine (Lab Motti)
10.00-11.00	Dufrusine	Dufrusine	Bernabò	Dufrusine	Dufrusine (Lab Motti)
11.00-12.00	Dufrusine	Dufrusine	Bernabò	Dufrusine	Dufrusine (Lab Motti)
12.00-13.00	Dufrusine	Dufrusine		Dufrusine	Dufrusine (Lab Motti)
14.00-15.00	Bernabò	Dufrusine	Dufrusine		
15.00-16.00	Bernabò	Dufrusine	Dufrusine		
16.00-17.00	Bernabò	Dufrusine	Dufrusine		

	12/06	13/06	14/06	15/06	16/06
9.00-10.00	Bernabò	Bernabò	Bernabò	Bernabò (lab colt cell)	Dufrusine (Lab Motti)
10.00-11.00	Bernabò	Bernabò	Bernabò	Bernabò (lab colt cell)	Dufrusine (Lab Motti)
11.00-12.00	Bernabò	Bernabò	Bernabò	Bernabò (lab colt cell)	Dufrusine (Lab Motti)
12.00-13.00	Bernabò	Bernabò			Dufrusine (Lab Motti)
14.00-15.00	Dufrusine	Dufrusine	Bernabò	Bernabò (lab colt cell)	
15.00-16.00	Dufrusine	Dufrusine	Bernabò	Bernabò (lab colt cell)	
16.00-17.00	Dufrusine	Dufrusine		Bernabò (lab colt cell)	

	19/06	20/06	21/06	22/06	23/06
9.00-10.00	Bernabò	Bernabò	Bernabò	Bernabò (lab colt cell)	Dufrusine
10.00-11.00	Bernabò	Bernabò	Bernabò	Bernabò (lab colt cell)	Dufrusine
11.00-12.00	Bernabò	Dufrusine	Dufrusine	Bernabò (lab colt cell)	Dufrusine
12.00-13.00	Bernabò	Dufrusine		Bernabò (lab colt cell)	Dufrusine
14.00-15.00	Dufrusine	Dufrusine	Dufrusine	Bernabò (lab colt cell)	
15.00-16.00	Dufrusine	Dufrusine	Dufrusine	Bernabò (lab colt cell)	
16.00-17.00	Dufrusine	Dufrusine	Dufrusine	Bernabò (lab colt cell)	

II year

DIAGNOSTIC HISTOLOGY APPLIED TO CELLS AND TISSUES OF THE REPRODUCTIVE SYSTEM (5 CFU)

Laura Bongiovanni

6-24 February 2022

Theoretical and practical lessons: 6-10 February/13-17 February 2023

First scheduled exam week: 20-24 February 2022

Week 1: 6-10 February 2023

schedule	Monday 6.2.2022	Tuesday 7.2.2022	Wednesday 8.2.2022	Thursday 9.2.2022	Friday 10.2.2022
8.30-9.30					
9.30-10.30	1_Introduction	3_Ovary pathol	5_Organoids for the reproductive tracts	8_Testis pathology	Lecture (Dr. Fortunato)
10.30-11.30	2_Uterus pathol	4_Placenta Patol	6_EVs-INTRO	9_Prostate Pathol	Lecture
11.30-12.30	2_Uterus pathol	4_Placenta Patol	7_Evs in the reproductive tract diseases	10_Cancer biomarkers	Lecture
14.00-15.00					TEST1
15.00-16.00					
16.00-17.00					

Week 2: 13-17 February 2022

schedule	Monday 13.2.2022	Tuesday 14.2.2022	Wednesday 15.2.2022	Thursday 16.2.2022	Friday 17.2.2022
8.30-9.30					
9.30-10.30	Laboratory 1	Laboratory 2	Laboratory 3	Laboratory 4	
10.30-11.30	Laboratory	Laboratory	Laboratory	Laboratory	
11.30-12.30	Laboratory	Laboratory	Laboratory	Laboratory	
14.00-15.00	Laboratory	Laboratory	Laboratory	Laboratory	
15.00-16.00	Laboratory	Laboratory	Laboratory	Laboratory	
16.00-17.00	Laboratory	Laboratory	Laboratory	TEST 2	

ANDROLOGY II

6/03	7/03	8/03	9/03	10/03
	9.30 – 13.30	9.30-12.30	9.30-13.30	9.30-13.30
14.30 – 17.30		14.30-16.30		15.30-18.30
Lezioni presso Teramo	Lezioni presso Teramo	Lezioni presso Teramo	Lezioni presso Teramo	Lezioni presso Teramo

13/03	14/03	15/03	16/13	17/03
9.00-17.00	14.30 – 17.30	14.30 – 17.30	14.30 – 17.30	
Esercitazioni presso Ospedale San Salvatore	Esercitazioni presso Ospedale San Salvatore	Esercitazioni presso Ospedale San Salvatore	Esercitazioni presso Ospedale San Salvatore	

20/03	21/03	22/03	23/03	24/03
14.30 – 17.30	14.30 – 17.30	14.30 – 17.30	14.30 – 17.30	
Esercitazioni presso Ospedale San Salvatore	Esercitazioni presso Ospedale San Salvatore	Esercitazioni presso Ospedale San Salvatore	Esercitazioni presso Ospedale San Salvatore	

ICSI PROCEDURE AND ADVANCED TECHNIQUES IN MEDICALLY ASSISTED PROCREATION (6 CFU)

Teacher: Dr.ssa Ilaria LISTORTI

[27 March-28 April 2023](#)

Theoretical and practical lessons: 27 March-31 March /3-7 April/10-14 April/17-21 April 2022
24-28 April 2022

First scheduled exam: 17 May 2023

Week: 27 March- 31 March

<i>hours</i>	Monday 27	Tuesday 28	Wednesday 29	Thursday 30	Friday 31
8.00-9.00					
9.00-10.00	Lecture	Lecture	Lecture	Lecture	
10.00-11.00	Lecture	Lecture	Lecture	Lecture	

11.00-12.00	Lecture	Lecture	Lecture	Lecture	
12.30-13.30					
13.30-14.30					
14.30- 15.30					

Week: 3-7 April

<i>hours</i>	Monday 3	Tuesday 4	Wednesday 5	Thursday 6	Friday 7
9.00-10.00	Laboratory	Laboratory	Laboratory	Laboratory	
10.00-11.00	Laboratory	Laboratory	Laboratory	Laboratory	
11.00-12.00	Laboratory	Laboratory	Laboratory	Laboratory	
12.00-13.00	Laboratory	Laboratory	Laboratory	Laboratory	
14.00-15.00	Laboratory	Laboratory	Laboratory	Laboratory	
15.00-16.00	Laboratory	Laboratory	Laboratory	Laboratory	
16.00-17.00	Laboratory	Laboratory	Laboratory	Laboratory	

Week: 10-14 April

<i>hours</i>	Monday 10	Tuesday 11	Wednesday 12	Thursday 13	Friday 14
9.00-10.00		Laboratory	Laboratory	Laboratory	Laboratory
10.00-11.00		Laboratory	Laboratory	Laboratory	Laboratory
11.00-12.00		Laboratory	Laboratory	Laboratory	Laboratory
12.00-13.00		Laboratory	Laboratory	Laboratory	Laboratory
14.00-15.00		Laboratory	Laboratory	Laboratory	Laboratory
15.00-16.00		Laboratory	Laboratory	Laboratory	Laboratory
16.00-17.00		Laboratory	Laboratory	Laboratory	Laboratory

Week: 17-21 April

<i>hours</i>	Monday 17	Tuesday 18	Wednesday 19	Thursday 20	Friday 21
9.00-10.00	Laboratory	Laboratory	Laboratory	Laboratory	
10.00-11.00	Laboratory	Laboratory	Laboratory	Laboratory	
11.00-12.00	Laboratory	Laboratory	Laboratory	Laboratory	
12.00-13.00	Laboratory	Laboratory	Laboratory	Laboratory	
14.00-15.00	Laboratory	Laboratory	Laboratory	Laboratory	
15.00-16.00	Laboratory	Laboratory	Laboratory	Laboratory	
16.00-17.00	Laboratory	Laboratory	Laboratory	Laboratory	

Week: 24-28 April

<i>hours</i>	Monday 24	Tuesday 25	Wednesday 26	Thursday 27	Friday 28
9.00-10.00	Laboratory	Laboratory	Laboratory	Laboratory	
10.00-11.00	Laboratory	Laboratory	Laboratory	Laboratory	
11.00-12.00	Laboratory	Laboratory	Laboratory	Laboratory	
12.00-13.00	Laboratory	Laboratory	Laboratory	Laboratory	
14.00-15.00	Laboratory	Laboratory	Laboratory	Laboratory	
15.00-16.00	Laboratory	Laboratory	Laboratory	Laboratory	
16.00-17.00	Laboratory	Laboratory	Laboratory	Laboratory	

LABORATORY ACTIVITIES WILL BE CARRIED OUT AT:

Villa Mafalda, Via Monte delle Gioie n.5, Roma

LEGISLATION

		3/05	4/05	5/05
		10.00-13.00	9.00-13.00	
		14.00-17.00	14.00-17.00	

8/05	9/05	10/05	11/05	
10.00-13.00	10.00-13.00	9.00-13.00		
14.00-17.00	14.00-17.00	14.00-17.00		

15/05	16/05	17/05	18/05	
10.00-13.00	10.00-13.00	10.00-13.00		
14.00-16.00	14.00-17.00	14.00-16.00		

Scientific Communication I and II

Tutte le lezioni dalle h 10-13

Marzo

24

31

Aprile

14

28

Maggio

5
12
19
26

Scientific Communication II
Tutte le lezioni dalle h 14-17

Marzo
24
31

Aprile
14
28

Maggio
5
12
19
26