

LECTURES / SEMINARS : 60 hours

Date	Hours	Lecturers	Topics
23 rd	9-10	J.M. DUPONT	Introduction
	10-12	J. P. BUREAU	Techniques of cell culture. Chromosome staining methods (Q-, G-, C-, R-banding etc, high resolution banding).
	14-18	M CREMER	Linking the linear DNA sequence organization on metaphase chromosomes with nuclear architecture in interphase
24 th	8.30-10.30	J.M. DUPONT	Chromosome abnormalities, groups at risk in population. Ultrasound markers of chromosomal abnormalities
	10.30-12.30	J. VERMEESCH	CGH Array
	14-15	J. VERMEESCH	Genome architecture
	15-16	A. BAUMER	Molecular techniques in cytogenetics (MLPA, QM-PSF, qPCR etc...)
	16-18	A. BAUMER	Imprinting, Beckwith-Wiedemann syndrome.
25 th	9-11	F. PELLESTOR	Cytogenetics of infertility
	11-12.30	K MILLER	ISCN 2005
	14-16	K. MILLER	Prenatal chromosome diagnosis. Indications, methods, and interpretation. Quality assessment
	16-18	J.M. DUPONT	Non-invasive prenatal diagnosis of chromosomal aneuploidies
26 th	9-12	K. MADAN	Clinical cytogenetics I: Numerical and structural abnormalities of the autosomes. Autosomal trisomies.
	14-16	K. MADAN	Clinical cytogenetics II: Abnormalities involving the sex chromosomes.
	16-18	K MILLER	Marker and Ring chromosomes. Genetic counselling and ethical issues in cytogenetics
27 th	8.30-10.30	J.S. HESLOP-HARRISON	Plant Cytogenetics
	10.30-12.30	J. WOLSTEN-HOLME	Mosaicism
	14-16	E. BLENNOW	Pre-implantation diagnosis.
	16-18.30	A. SCHINZEL	Mechanisms of formation and parental origin of chromosome aberrations. When to perform chromosome examinations from fibroblasts or other tissues? Uniparental disomy in humans.
28 th	9-12	M. ROCCHI	Molecular cytogenetics: production and use of molecular probes. Plasticity of the human genome
	13.30-16	L. LARIZZA	Cancer cytogenetics: from the single gene to the genomic approach. Chromosomal instability in cancer development and progression
	16-18	O. HAAS	MFISH. Principle and methods. Application in constitutional, hematological and oncological cytogenetics.

2 nd	9-12	R VANNI	Cytogenetics of solid tumors in the time of molecular biology
	14-18	J.M. GARCIA -SAGREDO	Diagnosis of predisposition to cancer. Chromosome instability syndromes. Chromosome mutagenesis.
3 rd	9-12	T LAVABRE- BERTRAND	From cytogenetics to clinical applications in onco-haematology.
	14-18		Conclusion/Tests