

Nom EES : University of Farhat Abbas, Setif 1
 Department : Department of Basic Studies

MATTER SYLLABUS
 (to be published on the institution's website)

Cell Biology

TEACHER OF MAGISTRIAL COURSE		Pr. OULMI Abdelmalek			
		Student reception per week			
Email	oulmi@yahoo.fr oulmi@univ-setif.dz	Day:	Mon	hour	12h30-14h
Office Tel		Day :	Wed	hour	11h00-12h30
Tel Secretariat		Day :		hour	
Other		Building :	SNV 2ème étage	Office	B11

TUTORIALS
 (Student reception per week)

Teachers' names and first names	Office/reception room	seance 1		Seance 2		Seance 3	
		Day	Hour	Day	Hour	Day	Hour

PRACTICAL WORK
 (Student reception per week)

Teachers' names and first names	Office/reception room	Seance 1		Seance 2		Seance 3	
		Day	Hour	Day	Hour	Day	Hour
Bara Youcef	Lab.23	Sun	8H-12H00	Mon	8H-12H00	Tue	14H-16H00
Belgat Leila	Lab.24	Tue	8H-12H00	Wed	8H-12H00	Wed	12H-16H00
Laala Zahira	Lab.25	Sun	8H-12H00	Mon	8H-10H00	Wed	12H-16H00
Loucif Karima	Lab.25	Wed	8H-10H00	Wed	12H-16H00		

Bellatar Ghania	Lab.24	Sun	10H-12H00	Sun	12H-14H00	Mon	10H-16H00
Meftah Sarra	Lab.23	Sun	12H-16H00	Lun	12H-16H00	Tue	12H-16H00
Benzidane Chahra	Lab.25	Mon	12H-14H00	Mon	14H-16H00		
Harrag Abdelmalek	Lab.23	Tue	8H-10H00	Tue	10H-12H00		
Smari Hadjer Kounouz	Lab.23	Mon	12H-14H00	Mon	14H-16H00		
Baghem Ouarda	Lab.25	Tue	8H-12H00	Wed	8H-12H00		

COURSE DESCRIPTION	
Objective	This material treats the cell and its various constituents such as the plasma membrane, the nucleus, the ribosomes, the mitochondria, the endoplasmic reticulum and the cell wall. Likewise she the main functions of cellular organelles and their interrelationships. (study the main organelles of the cell; Nucleus, Nucleolus, Mitochondrion, Rough endoplasmic reticulum, Golgi apparatus, Cytoskeleton, Vacuole, Lysosome, Centrosome, Plasma membrane, etc.)
Teaching unit type	
Succinct contents	- General - Classification and relative importance of kingdoms - Cell and cell theory - Origin and evolution - Cell types (Prokaryote, Eukaryote, Acaryote) - Methods for studying the cell - Otic and electron microscopy methods - Histochemical methods - Immunological methods - Enzymological methods - Plasma membrane: structure and function - Cytoskeleton and cell motility - Cell adhesion and extracellular matrix - Chromatin, chromosomes and cell nucleus - Ribosome and protein synthesis - The endoplasmic reticulum-Golgi system - The interphase nucleus - The endosomal system: endocytosis - Mitochondria - Chloroplasts - Peroxisomes

	14. Extracellular matrix 15. Plant wall Tutorials / Practical work I. Methods for studying cells: 1. separation of cellular constituents 2. observation of cellular constituents 3. identification of cellular constituents 4. Plant wall II. Cell cultures III. Physiological function tests 1. Reconstruction of the function from isolated constituents 2. Anatomical tests: autoradiography, fluorescence markings, green fluorescent proteins 3. Physiological Tests: control of the expression of a protein, mutation, overexpression
Matter credits	9
Matter Coefficient	4
Participation weighting	2.5
Attendance weighting	2.5
Average calculation C.C	15 + (Participation + Attendance)
Targeted skills	Acquisition of knowledge about Tissues and cells.

EVALUATION OF CONTINUOUS KNOWLEDGE CONTROLS							
FIRST KNOWLEDGE CONTROL							
Day	Seance	Duration	Type (1)	Doc allowed (Yes, No)	Scale	Exchange after evaluation (date Consult. copy)	Evaluation criteria (2)
SECOND KNOWLEDGE CONTROL							
Day	Seance	Duration	Type (1)	Doc allowed (Yes, No)	Scale	Exchange after evaluation (date Consult. copy)	Evaluation criteria (2)
Sun	8-9H30	1h30	QCM	Non	20	1 week after the check	QCM

(1) Type : W= written, IP= individuel presentation, PC=Presentation in classroom, EX=experimentation, QCM

(2) Evaluation criteria:A=Analyse, S= synthesis,AR=argumentation, G= gait, R=results

USED EQUIPMENT AND MATERIALS	
Platform addresses	Ferhat Abbas University Sétif-1
Applications names(Web, local network)	https://snv-courses.univ.setif.dz
Course support	Cell biology
Laboratory materials	Glassware, Microscopes, Binocular magnifiers, chemicals, ...

Protective materials	Gel, bibs, ...
Field exit materials	Dissection kit, Entomological traps, Nets, Field kits, Compasses, Binocular magnifiers, Camera, ...

EXPECTATIONS	
Student expectations (Participation-implication)	In addition to the acquisition of basic notions in cell biology, knowledge of cellular organelles, the main methods used in the research of plant and animal tissues and cells. student participation in the form of debates.
Teacher expectations	Achieve the objectives set out at the beginning of the course.

BIBLIOGRAPHY	
Books and digital resources	- عولمي ع. (2022). كتاب أساسيات بيولوجيا النبات. دار المجدد للطباعة والنشر- الجزائر، ISBN: 978-9947-38-506-7، 154 صفحة. - Alberts, Bruce; Johnson, Alexander D.; Morgan, David; Raff, Martin; Roberts, Keith; Walter, Peter (2015). "Cells and genomes". <i>Molecular Biology of the Cell</i> (6th ed.). New York, NY: Garland Science. ISBN 978-0815344322., 510 pages. - Cooper, Geoffrey M (2000). <i>The Cell: A Molecular Approach</i>. ASM Press. ISBN 9780878931064. - Cooper, Geoffrey M. (2000). "The Golgi Apparatus". <i>The Cell: A Molecular Approach</i>. 2nd Edition. - Studios, Andrew Rader. "Biology4Kids.com: Cell Structure: Endoplasmic Reticulum". www.biology4kids.com. Retrieved 27 September 2021.
Papers	- Kaneshiro, Edna (2 May 2001). <i>Cell Physiology Sourcebook: A Molecular Approach</i> (3rd ed.). Academic Press. ISBN 978-0123877383.. - You, Zhongsheng; Bailis, Julie M. (July 2010). "DNA damage and decisions: CtIP coordinates DNA repair and cell cycle checkpoints". <i>Trends in Cell Biology</i>. 20 (7): 402–409. - McKinnon, Katherine M. (21 February 2018). "Flow Cytometry: An Overview". <i>Current Protocols in Immunology</i>. 120 (1): 5.1.1–5.1.11. doi:10.1002/cpim.40. ISSN 1934-3671. PMC 5939936. PMID 29512141. - Giacomello, Marta; Pyakurel, Aswin; Glytsou, Christina; Scorrano, Luca (18 February 2020). "The cell biology of mitochondrial membrane dynamics". <i>Nature Reviews Molecular Cell Biology</i>. 21 (4): 204–224. doi:10.1038/s41580-020-0210-7. ISSN 1471-0072. PMID 32071438. S2CID 211170966
Course support	- Cours de Biologie Cellulaire sous forme PDF et PPT en arabe et en

	Anglais (A. Oulmi 2022)
Websites	- CELL & MOLECULAR BIOLOGY: RECOMMENDED WEBSITES ; https://libguides.gvsu.edu/cmb/website - Oxford University Press; https://academic.oup.com/plcell/pages/teaching-tools-plant-biology - Best Molecular and Cell Biology Apps and Websites; https://www.commonsense.org/education/lists/best-molecular-and-cell-biology-apps-and-websites - Journal of Cell Biology ; https://rupress.org/jcb - Nature Cell Biology; https://www.nature.com/ncb/ - European Journal of Cell Biology; https://www.sciencedirect.com/journal/european-journal-of-cell-biology

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