

COURSE DESCRIPTION

ACADEMIC CENTER	DEPARTMENT					
ROBERTO ALCÂNTARA GOMES DEPARTMENT (F ANA	TOMY			
BIOLOGY INSTITUTE						
COURSE NAME	() CORE COL		JRSE HOURS 30		30	CREDITS
EXTRACELLULAR MATRIX						2
		(X) OPTIONA COURSE	L			
PROGRAM / PROJECT NAME	DISTRIBUTION OF HOURS					
PHYSIOPATHOLOGY AND SURGICAL SCIENCES	TYPE OF CLASS		HOURS		N. OF CREDITS	
Key Focus Area:	THE	ORETICAL	;	30		2
Urogenital System Operative technique and Experimental Surgery	PRACTICAL					
Cardiovascular System		TOTAL	;	30		2
PREREQUISITES			(X) Master's program course			
			(X) D	octorate'	s progra	am course

COURSE DESCRIPTION

Extracellular matrix: definition and concepts. Collagen system: molecular types and characteristics. Collagen fibrinogenesis. Collagen disorders. Elastic system. Types of fibers and constitution. Elastogenesis. Molecular structure and types. Extracellular matrix components interactions. Cell integrins and receptors for extracellular matrix components.

BASIC BIBLIOGRAPHY

- 1. Ayad S, Handford RB, Humphries M. The Extracellular Matrix Factsbook (Factsbook). Academic Press, 1998.
- 2. Chadwick DJ, Goode JÁ eds. The molecular biology and pathology of elastic tissues. Ciba Foundation Symposium 192. Wiley Rochester, 1995.
- 3. Cremer MA, Rosloniec EF, Kang AH. The cartilage collagens: a review of their structure, organization, and role in the pathogenesis of experimental arthritis in animals and in human rheumatic disease. J Mol Med, 76:275-288, 1988
- 4. Kreis T, Vale R: Guidebook to the Extracellular matrix proteins. Oxford, Oxford University Press, 1993.
- 5. Mousa AS: Cell Adhesion Molecules and Matrix Proteins: Role in Health and Diseases (Biotechnology Intelligence Unit), R G Landes Co., 1998.
- 6. Yurchenko PD, Birk DE, Mecham RP: Extracellular Matrix Assembly and Structure. San Diego, Academic Press, 1994.

PROGRAM / PROJECT COORDINATOR		
DATE	SIGNATURE	