

COURSE DESCRIPTION

ACADEMIC CENTER ROBERTO ALCANTARA GOMES BIOLOGY INSTITUTE	EPARTMEN [®]	IT IT OF ANATOMY						
COURSE NAME EXTRACELLULAR MATRIX		() CORE COURSE (X) OPTIONAL COURSE		JRSE L	HOURS 30		CREDITS 2	
PROGRAM / PROJECT NAME PHYSIOPATHOLOGY AND SURGICAL	DISTRIBUTION OF TYPE OF CLASS			HOURS		 N.	N. OF CREDITS	
Key Focus Area: Urogenital System Operative technique and Experimental Surgery		THEORETICAL PRACTICAL		30		2		
Cardiovascular System		TOTAL		30 (x) Master's pr		2 rogram course		
					(x) Doctorate's program 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

DAT	E		

SIGNATURE