



COURSE DESCRIPTION

ACADEMIC CENTER ROBERTO ALCÂNTARA GOMES BIOLOGY INSTITUTE		DEPARTMENT DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY		
COURSE NAME PROGRESS IN TISSUE REPAIR I		() CORE COURSE	HOURS 15	CREDITS 1
		(X) OPTIONAL COURSE		
PROGRAM / PROJECT NAME PHYSIOPATHOLOGY AND SURGICAL SCIENCES <u>Key Focus Area:</u> Operative Technique and Experimental Surgery		DISTRIBUTION OF HOURS		
		TYPE OF CLASS	HOURS	N. OF CREDITS
		THEORETICAL	15	1
		PRACTICAL		
		TOTAL	15	1
PREREQUISITES		(X) Master's program course (X) Doctorate's program course		

COURSE DESCRIPTION

Review and update of topics related to tissue repair, healing and extracellular matrix, based on recent publications in the literature.

BASIC BIBLIOGRAPHY

1. Achuth HN, Moochhala SM, Mahendran R, Tan WT. Nitrosoglutathione triggers collagen deposition in cutaneous wound repair. *Wound Repair Regen* 2005; 13:383-389.
2. Braddock M. Tissue repair and ulcer/wound healing - Institut Pasteur Euroconference: molecular mechanisms, therapeutic targets and future directions. *IDrugs* 2005; 8:381-383.
3. Hassanain HH, Irshaid F, Wisel S, Sheridan J, Michler RE, Goldschmidt-Clermont PJ. Smooth muscle cell expression of a constitutive active form of human Rac 1 accelerates cutaneous wound repair. *Surgery* 2005; 137:92-101.
4. Kikuchi S, Griffin CT, Wang SS, Bissell DM. Role of CD44 in epithelial wound repair: migration of rat hepatic stellate cells utilizes hyaluronic acid and CD44v6. *J Biol Chem* 2005; 280:15398-15404.
5. Martin P, Leibovich SJ. Inflammatory cells during wound repair: the good, the bad and the ugly. *Trends Cell Biol* 2005; 15:599-607.
6. Opalenik SR, Davidson JM. Fibroblast differentiation of bone marrow-derived cells during wound repair. *Faseb J* 2005; 19:1561-1563.
7. Padovan LE, Okamoto T, Rezende MC, Curvello VP, Nicolielo D, Matsumoto MA. Fibrin adhesive implant in wound healing repair of dental sockets with topical application of epsilon aminocaproic acid: histological analysis. *J Biomed Mater Res B Appl Biomater* 2005; 73:209-213.
8. Sakthianandeswaren A, Elso CM, Simpson K, Curtis JM, Kumar B, Speed TP, Handman E, Foote SJ. The wound repair response controls outcome to cutaneous leishmaniasis. *Proc Natl Acad Sci U S A* 2005; 102:15551-15556.
9. Theoret CL. The pathophysiology of wound repair. *Vet Clin North Am Equine Pract* 2005; 21:1-13.
10. van Beurden HE, Von den Hoff JW, Torensma R, Maltha JC, Kuijpers-Jagtman AM. Myofibroblasts in palatal wound healing: prospects for the reduction of wound contraction after cleft palate repair. *J Dent Res* 2005; 84:871-880.
11. Weber KT, Sun Y, Katwa LC. Local regulation of extracellular matrix structure. *Herz* 1995; 20:81-88.

PROGRAM / PROJECT COORDINATOR

DATE	SIGNATURE