



## COURSE DESCRIPTION

<b>ACADEMIC CENTER</b> <b>ROBERTO ALCANTARA GOMES</b> <b>BIOLOGY INSTITUTE</b>	<b>DEPARTMENT</b> <b>DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY</b>														
<b>COURSE NAME</b> <b>PROGRESS IN TISSUE REPAIR I</b>	<input type="checkbox"/> CORE COURSE  <input checked="" type="checkbox"/> OPTIONAL COURSE	<b>HOURS</b> 15	<b>CREDITS</b> 1												
<b>PROGRAM / PROJECT NAME</b> <b>PHYSIOPATHOLOGY AND SURGICAL SCIENCES</b> <u>Key Focus Area:</u> Operative Technique and Experimental Surgery	<b>DISTRIBUTION OF HOURS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">TYPE OF CLASS</th> <th style="width: 20%;">HOURS</th> <th style="width: 20%;">N. OF CREDITS</th> </tr> </thead> <tbody> <tr> <td>THEORETICAL</td> <td style="text-align: center;">15</td> <td style="text-align: center;">1</td> </tr> <tr> <td>PRACTICAL</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">TOTAL</td> <td style="text-align: center;">15</td> <td style="text-align: center;">1</td> </tr> </tbody> </table>			TYPE OF CLASS	HOURS	N. OF CREDITS	THEORETICAL	15	1	PRACTICAL			TOTAL	15	1
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<b>PREREQUISITES</b>	<input checked="" type="checkbox"/> Master's program course <input checked="" type="checkbox"/> 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, Mochhala 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.
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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

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