COURSE DESCRIPTION

ACADEMIC CENTER **ROBERTO ALCÂNTARA GOMES BIOLOGY INSTITUTE**	DEPARTMENT **DEPARTMENT OF ANATOMY**		
COURSE NAME **PROGRESS IN HYPERTENSION AND CARDIO-RENAL PHYSIOPATHOLOGY I**	( ) CORE COURSE (X) OPTIONAL COURSE	HOURS 30	CREDITS 2

PROGRAM / PROJECT NAME **PHYSIOPATHOLOGY AND SURGICAL SCIENCES** Key Focus Area: Cardiovascular System	DISTRIBUTION OF HOURS		
	TYPE OF CLASS	HOURS	N. OF CREDITS
	THEORETICAL	30	2
	PRACTICAL		
	TOTAL	30	2

PREREQUISITES	(x) Master's program course (x) Doctorate's program course

COURSE DESCRIPTION

The course description is variable because it is intended to discuss recently published scientific articles that present controversial aspects related to arterial hypertension, physical activity, dyslipidemias and the influence of diets on obesity and malnutrition, focusing mainly on the renin-angiotensin-aldosterone system, nitric oxide and cardiovascular system.

BASIC BIBLIOGRAPHY

1. Aguila MB, Pinheiro AR, Aquino JC, Gomes AP, Mandarim-de-Lacerda CA. Different edible oil beneficial effects (canola oil, fish oil, palm oil, olive oil, and soybean oil) on spontaneously hypertensive rat glomerular enlargement and glomeruli number. Prostaglandins Other Lipid Mediat 2005; 76:74-85.
2. Aguila MB, Sa Silva SP, Pinheiro AR, Mandarim-de-Lacerda CA. Effects of long-term intake of edible oils on hypertension and myocardial and aortic remodelling in spontaneously hypertensive rats. J Hypertens 2004; 22:921-929.
3. Bezerra DG, Mandarim-de-Lacerda CA. Beneficial effect of simvastatin and pravastatin treatment on adverse cardiac remodelling and glomeruli loss in spontaneously hypertensive rats. Clin Sci (Lond) 2005; 108:349-355.
4. Bezerra DG, Pires KM, Mandarim-de-Lacerda CA. Amlodipine preserves the glomerular number in spontaneously hypertensive rats. J Cell Mol Med 2005; 9:966-971.
5. Costa VA, Vianna LM, Aguila MB, Mandarim-de-Lacerda CA. Alpha-tocopherol supplementation favorable effects on blood pressure, blood viscosity and cardiac remodeling of spontaneously hypertensive rats. J Nutr Biochem 2005; 16:251-256.
6. Lemos CC, Mandarim-de-Lacerda A, Dorigo D, Coimbra TM, Bregman R. Chronic renal failure in male and female rats. J Nephrol 2005; 18:368-373.
7. Lopes GS, Lemos CC, Mandarim-de-Lacerda CA, Bregman R. Effect of unilateral nephrectomy on renal function of diabetic rats. Histol Histopathol 2004; 19:1085-1088.
8. Mandarim-de-Lacerda CA, Pereira LM. Effect of telmisartan on preexistent cardiac and renal lesions in spontaneously hypertensive mature rats. Histol Histopathol 2004; 19:727-733.
9. Santos WV, Pereira LM, Mandarim-de-Lacerda CA. The effect of enalapril on the cardiac remodelling in ovariectomized spontaneously hypertensive rats. Int J Exp Pathol 2004; 85:287-294.

PROGRAM / PROJECT COORDINATOR

DATE			SIGNATURE
01	06	06	