2009 Research Days Abstract Form – Department of Ophthalmology – UNIFESP/EPM	
SCIENTIFIC SECTION PREFERENCE (REQUIRED): GL Review the Scientific Section Descriptions.	30. FIRST (PRESENTING) AUTHOR (REQUIRED): Must be the author listed first in abstract body.
Select and enter the two-letter Code for the one (1) Section best suited to review your abstract.	() R1 () R2 () R3 () PIBIC () PG0 (x) PG1 () Fellow () Technician
3. PRESENTATION PREFERENCE (REQUIRED) Check one: Paper X Poster FAST Paper	Last Name: Gerente First Name: Vanessa Middle: Miroski Service (Sector): Glaucoma
4. The signature of the First (Presenting) Author (REQUIRED) acting as the authorized agent for all authors, hereby certifies that any research reported was	CEP Number: 1984/07
conducted in compliance with the Declaration of Helsinki and the 'UNIFESP Ethical Committee"	5. ABSTRACT (REQUIRED):
	Title: Evaluation of the glaucomatous lesion on the central nervous
	system by functional magnetic resonance imaging (fMRI) and the correlation with psychophysics and anatomical retinal findings
Scientific Section Descriptions (two-letter code): (BE) OCULAR BIOENGINEERING (CO) CORNEA AND EXTERNAL DISEASE (CA) CATARACT	Author and Co-authors (maximum 6): Vanessa M. Gerente, Ruth Schor, Dora Fix Ventura, Sérgio Teixeira, Cláudio Luiz Lottenberg, Edson Amaro Jr, Augusto Paranhos Jr.
(EF) ELECTROPHYSIOLOGY (EP) EPIDEMIOLOGY (EX) EXPERIMENTAL SURGERY (GL) GLAUCOMA (LA) LABORATORY (LS) LACRIMAL SYSTEM	Purpose: To evaluate the results of fMRI in patients with glaucoma and localized retinal nerve fiber layer defect and to evaluate anatomically the lateral geniculate body and calcarine cortex in
(LV) LOW VISION (NO) NEURO-OPHTHALMOLOGY (OR) ORBIT (PL) OCULAR PLASTIC SURGERY (PH) PHARMACOLOGY (RE) RETINA AND VITREOUS (RS) REFRACTIVE SURGERY (RX) REFRACTION-CONTACT LENSES (ST) STRABISMUS (TR) TRAUMA (TU) TUMORS AND PATHOLOGY (UV) UVEITIS (US) OCULAR ULTRASOUND	advanced glaucoma. Methods: Controls and patients with glaucoma performed standard automated perimetry, FDT, OCT, GDx VCC, HRT, retinography and fMRI. The stimuli of fMRI were presented in a rotating wedge and expanding ring reversing checkerboard to evaluate eccentricity and polar angle. Parvo and magno pattern stimuli were also presented. Visual cortex response to visual stimuli was observed by changes in blood flow and oxygenation, represented by the blood oxygen level dependent (BOLD) signal.
Deadline: Oct 12, 2009	Results: Until now 23 individuals performed the exams, 15 with glaucoma and 8 controls. Data are in analysis at the moment of deadline.
,	Conclusion: Study in progress.
FORMAT: Abstract should contain: Title Author, Co-authors (maximum 6),	Keywords: glaucoma, functional magnetic resonance imaging

Purpose, Methods, Results, Conclusion.

Poster guidelines: ARVO Abstract Book (1.10 x 1.70m)