

**2007 Research Days Abstract Form – Department of Ophthalmology – UNIFESP/EPM**

2. SCIENTIFIC SECTION PREFERENCE (REQUIRED): Review the Scientific section Descriptions. Select and enter the two-letter Code for the one (1) Section best suited to review your abstract  
(CO)

3. PRESENTATION PREFERENCE (REQUIRED) Check one (1)  
(a) Paper  
(b) **Poster**

4. The signature of the First (Presenting) Author, (REQUIRED) acting as the authorized agent for all authors, hereby certifies.  
That any research reported was conducted in compliance with the Declaration of Helsinki and the UNIFESP Ethical Committee"

Signature of First

Scientific Section Descriptions  
(OR) ORBIT  
(PL) OCULAR PLASTIC SURGERY  
(RE) RETINA AND VITREOUS  
(RX) REFRACTION-CONTACT LENSES  
(NO) NEURO-OPHTHALMOLOGY  
(TU) TUMORS AND PATHOLOGY  
(ST) STRABISMUS  
(UV) UVEITIS  
(LS) LACRIMAL SYSTEM  
(LV) LOW VISION  
(CO) CORNEA AND EXTERNAL DISEASE  
(GL) GLAUCOMA  
(RS) REFRACTIVE SURGERY  
(CA) CATARACT  
(US) OCULAR ULTRASOUND  
(TR) TRAUMA  
(LA) LABORATORY  
(BE) OCULAR BIOENGINEERING  
(EP) EPIDEMIOLOGY  
(EF) ELECTROPHYSIOLOGY

Deadline: 29/10/2007

FORMAT:  
Abstract should contain:  
**Title, Name of Authors, Name of other authors (maximum 6), Purpose, Methods, Results, Conclusions.**  
Example: ARVO (1.10 x 1.70)  
Abstract Book

1. FIRST (PRESENTING) AUTHOR (REQUIRED)  
Must be author listed first in body of abstract  
( ) R1 ( ) R2 ( ) R3  
(X) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( ) PIBIC  
  
Pereira. Mário. Genilhu Bomfim  
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CASO 0074/06  
Service (sector) Nº CEP  
(Comitê de Ética em  
Pesquisa da Universidade  
Federal de São Paulo-  
UNIFESP)

5. ABSTRACT (REQUIRED)  
  
**Growth Factors Dosage in Fresh and Preserved Amniotic Membrane in Different Medium and at Different Temperatures**  
Mário Genilhu Bomfim Pereira , José Álvaro Pereira Gomes, Luiz Vicente Rizzo  
  
**Purpose:** To compare the concentration of different growth factors (EGF, NGF, FGF-b, TGF-B, HGF) in fresh and preserved in amniotic membranes during different periods of storage at different temperatures.  
**Methods:** Eight amniotic membranes were obtained from eight placentas of cesarean deliveries at term. Each amniotic membrane was divided in seventeen pieces and preserved at saline solution 0,9% (1), DMSO 12%(8) and modified TC 199 preservation medium / glycerol (Ophthamos) (8). One sample of each membrane in the saline solution was put in serum free and protein free hybridroma medium for 24 hours. The supernatant was retrieved and submitted to ELISA. After 24 hours preserved at -80° C and 0° C, one sample of each membrane was placed in serum free and protein free hybridroma medium for 24 hours. The supernatant was retrieved and submitted to ELISA.  
**Results:** HGF concentration increased either in membranes preserved at -80° and at 0° at both media (DMSO and Ophthalmos') compared with fresh membrane. TGF -beta, IL-10, FGF and NGF concentrations couldn't be evaluated because of the low values, which means that they were probably too diluted in the supernatant.  
**Conclusion:** These early results are not conclusive, but it looks like that both preservation media increase the concentration of growth factors, notably HGF, in the first 24hs. Another set of amniotic membranes will be obtained in order to repeat the experiment and confirm our initial findings.