

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  
( ) PG0 ( ) PG1 ( ) Estagiário (X) Tecnólogo ( ) PIBIC  
  
Cristovam Priscila Cardoso  
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Service (sector) Nº CEP  
(Comitê de Ética em  
Pesquisa da Universidade  
Federal de São Paulo-  
UNIFESP)

5. ABSTRACT (REQUIRED)  
**Importance of 3T3 feeder layer to establish epithelial cultures from cell suspension obtained from cornealscleral rims**  
  
**Priscila C. Cristovam, Maria A. Glória, Gustavo B. Melo, Charles C. Faria, Myrna S. Santos e José Álvaro P. Gomes**  
  
**Purpose:** To evaluate the importance of the presence of 3T3 fibroblasts for establishing limbal epithelial cultures from cell suspension obtained from cornealscleral rims (CSL). **Methods:** CSL from different donors (n=6) had their posterior stroma and endothelium stripped away. Each CSL was divided in three equal segments that were set up in tissue culture in three different conditions: one of the segments was cut in three small pieces which were placed with the epithelial side up on the bottom of the culture plate (group A). The other two fragments were cut in small pieces that were incubated with Trypsin 1 g/ml (EDTA/PBS 0,02%) for 30 min at 35 °C. The CSL pieces were removed and the cell suspension was centrifuged at 1500rpm for 5 minutes. The procedure was repeated with the same CSL pieces and the cells obtained were suspended on a SHEMA media. One thousand epithelial cells were placed on 100mm culture plates with (group B) or without (group C) irradiated 3T3 fibroblasts and cultured in SHEMA media which was changed every 2 days. The epithelial migration in group A and clone formation in groups B and C were evaluated by phase contrast microscopy. After 20 days, the media was removed and the attached cells were stained with rodamine. **Results:** All the epithelial cell suspensions that were cultured with 3T3 fibroblasts (group B) formed clones. Epithelial cell growth was observed in 4/6 rims (group A). No adhesion or clone formation was observed at the cell suspensions that were cultivated without 3T3 fibroblasts (group C). **Conclusion:** Epithelial cell suspension obtained from CSL in this model need to be cultivated with 3T3 fibroblasts in order to form clones.