

Studio Multicentrico valutazione comparativa di terreni colturali per cornee



Roberto Ceccuzzi
Federico Genzano Besso
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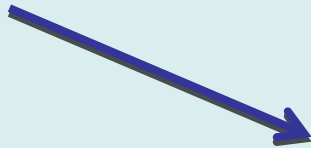
Come nasce



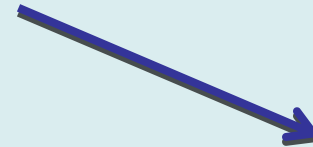
Ultimi mesi del 2008 ...



Roberto Ceccuzzi



Formedic



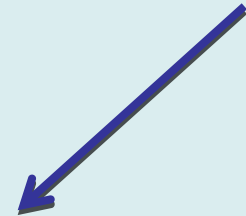
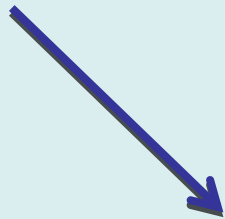
Federico Genzano



EEBA 2009 - Amsterdam

Roberto Ceccuzzi Federico Genzano

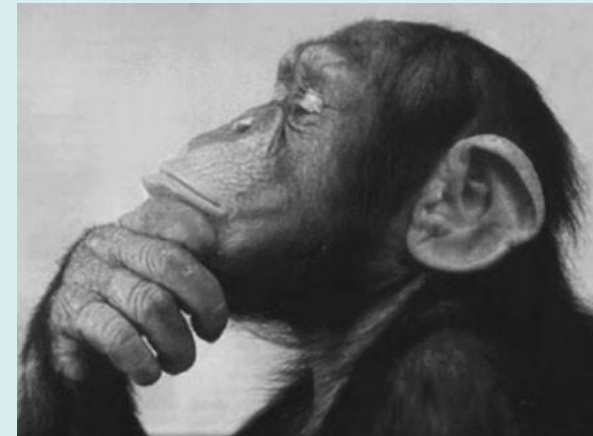
Paola Pagani



Formedic - Eurobio



Si concorda il protocollo



**Banca Delle Cornee della Regione Piemonte
Fondazione Banca degli Occhi Melvin Jones
Banca degli Occhi di Pavia 'F. Trimarchi'**

AIM OF THE STUDY

to show that the quality of the EURO BIO media can fit to the activity of the Italian bank for the preservation and the deswelling of the cornea in terms of feasibility, safety, and quality.



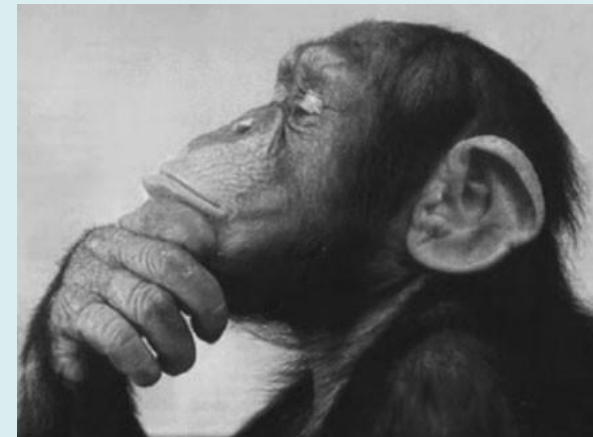
... 2009

**20 donors will have to be selected and (20 right corneas+20 left corneas)
The 20 donors need to be selected among different category of age:**

**<25 years old
25<age<40
40<age<65
>65 years old**

The cause of the death will be precised

**20 right eyes will have to be performed with the EURO BIO media and 20
left eyes have to be performed with the in house media**



... 2009

Organ culture period for CellStore: 14 days (as defined by the technical manager)



Deswelling period for CellRelease: More than one day, 2 days average (as defined by the technical manager)

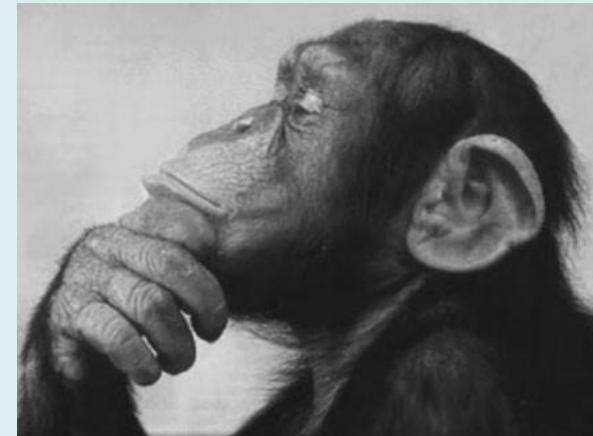
... 2009

Quality of the ECD during the process (qualitative and quantitative)

**Counting during the transfer from the sampling media to the CellStore
EUROBIO media**

Counting after 7 days in the CellStore media

Counting after 14 days in the CellStore media



A last counting will be perform during the deswelling period if needed (in case of doubt on the cornea ECD quality)

Cornea biological characteristics: ECD and endothelial mosaic

The same protocol will be done for the in house media

... 2009

**For the same donor
(donor not suitable
for corneal
transplantation)**

**1a=right cornea with EURO BIO
medium**

**1b=Left cornea with the
in house medium**

Color of the medium

Quality conservation

ECD>2000 cells/mm²

Sterility

Continuous cellular mosaic



e i risultati



	Eurobio medium	Home medium
total quantity tested	49	49
total quantity of corneas accepted	41	35
total quantity of corneas rejected	8	14
% of corneas accepted	84	71
% of corneas rejected	16	29

e i risultati



	Eurobio medium	Home medium
total quantity of corneas rejected	8	14
	2 fungal contamination	1 fungal contamination
	3 too high cell mortality	10 too high cell mortality
	3 bacterial contamination	3 bacterial contamination

e i risultati



**The Eurobio medium does not
differ significantly from the
House medium,
and the differences could be
further investigated with a new
prospective study**

Un caloroso saluto a tutti gli amici
che ci hanno dato
Una zampa!

GRAZIE





Piera Santoro

**Claudia Cucchelli
Antonia Del Favero
Maria Di Palma**

Nadia Randazzo

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"Thanks a bunch. I'll just run these by
our committee and pass them along."

Suggestions & Comments?

