

# Lenticoli "*ready for use*" per DSAEK

Alessandro Ruzza

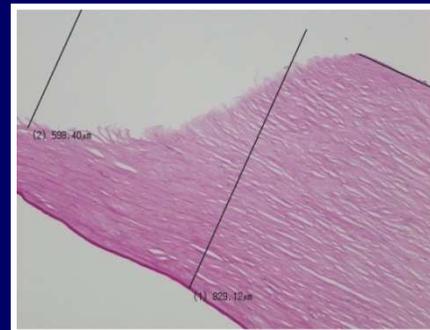
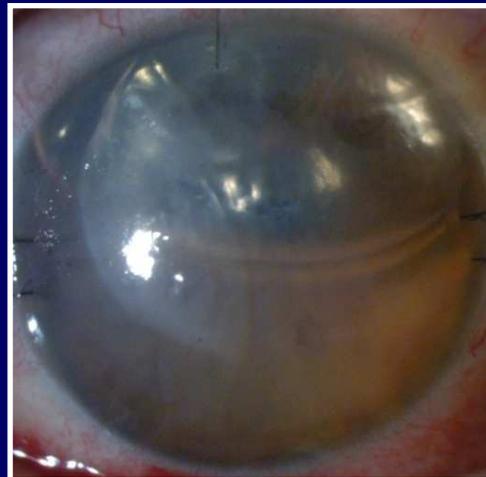
XVII Congresso Nazionale S.I.TRA.C.  
Simposio SIBO  
Bari 22 Febbraio 2013

# PREMESSA

- Cornee PRE - tagliate → LENTICOLI POSTERIORI

– Studio di “fattibilità”:

- Conservazione
- Trasporto

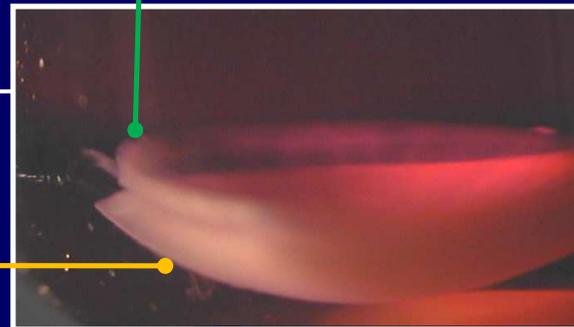


## CONSERVAZIONE:

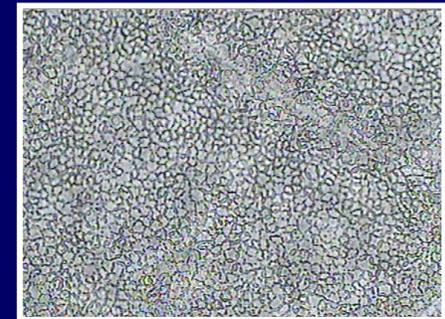
- Ruzza et al. Banking of Donor Tissues for DSAEK. Cornea 2013 - 32(1):70-75
  - 7 giorni in 10 ml di MEM + 6 % Destrano a 31°C:
    - Minima perdita endoteliale (-4,4%)
    - Mantenimento dello spessore (+7,1%)
    - Costante attività glicolitica
    - Conservazione con lenticolo ANTERIORE



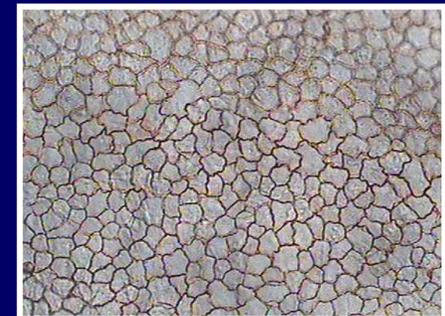
Lenticolo  
Anteriore



Lenticolo  
Posteriore



100 x – Trypan blue / Saccarosio



200x – Alizarina / Saccarosio

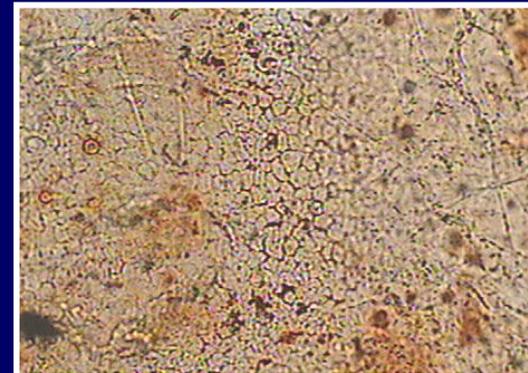
Conservazione del  
lenticolo  
**POSTERIORE**



**CON** lenticolo anteriore



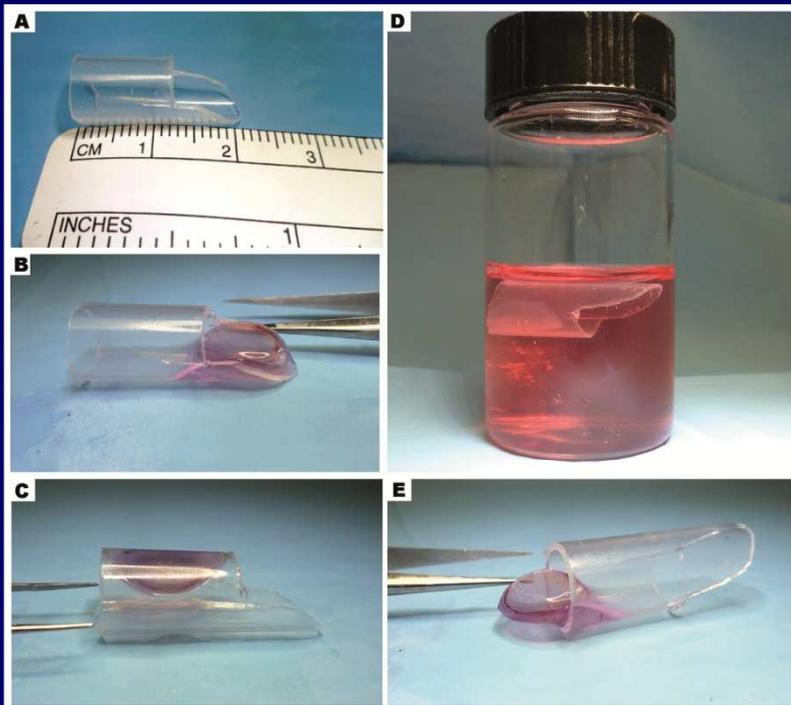
**SENZA** lenticolo anteriore



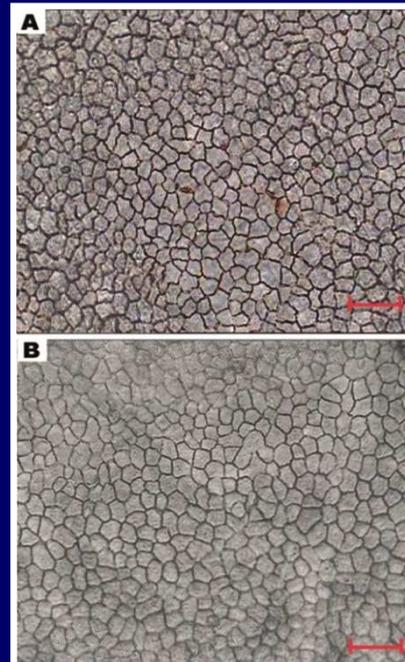
Microscopio ottico,  
100 x -  
Alizarina/Saccaroso

# TRASPORTO:

- Ruzza at al. A simple device to delivered trephined lenticules for DSAEK. Submitted to “Eye and tissue banking”;
  - 7 giorni in 10 ml di MEM + 6 % Destrano a 31°C:
    - Minima perdita endoteliale (-0,5%)
    - Mantenimento dello spessore (+5,6%)
    - Costante attività glicolitica
    - Simulazioni di trasporto



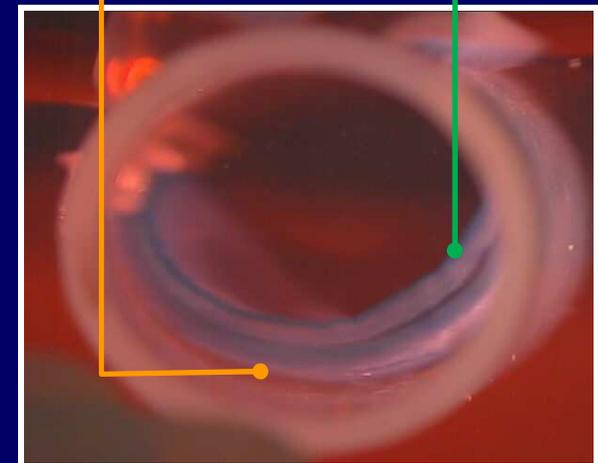
100 x – Alizarina; Endo. in OC **senza** puntale

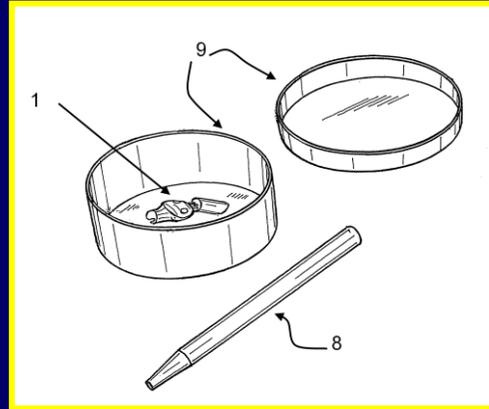
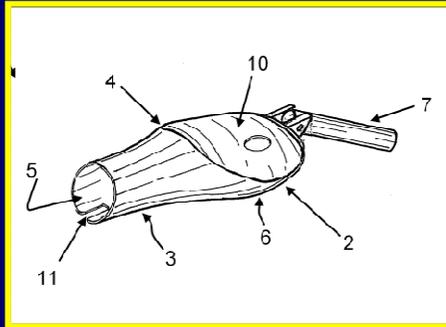
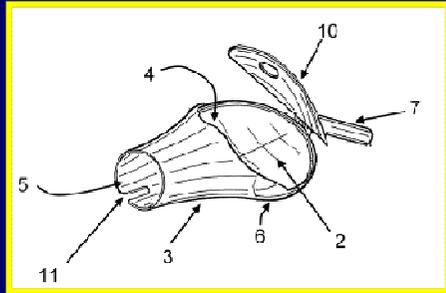


100 x – Alizarina; Endo. in OC **con** puntale

Lenticolo  
Anteriore

Lenticolo  
Posteriore

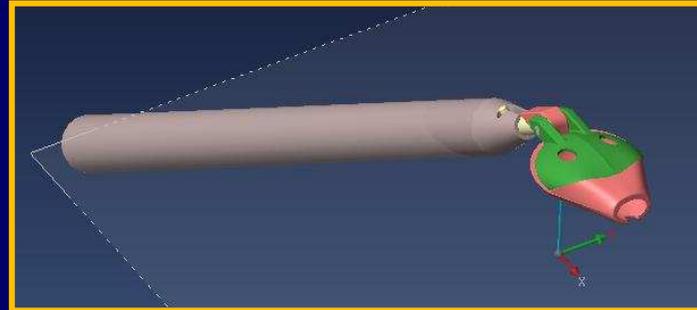
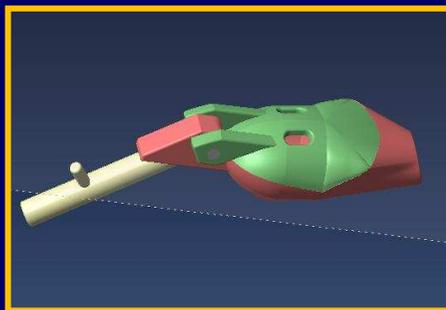
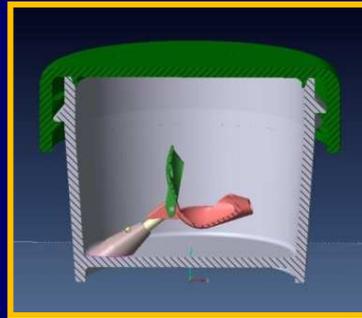
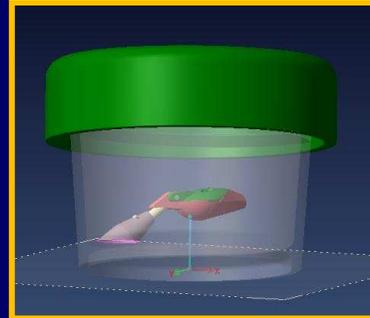
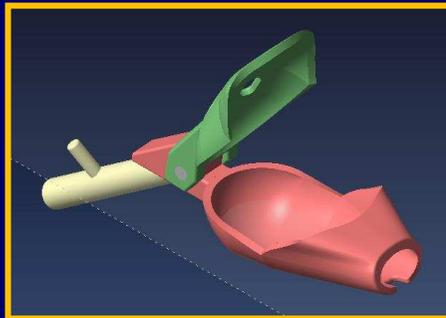




IDEA



CAD





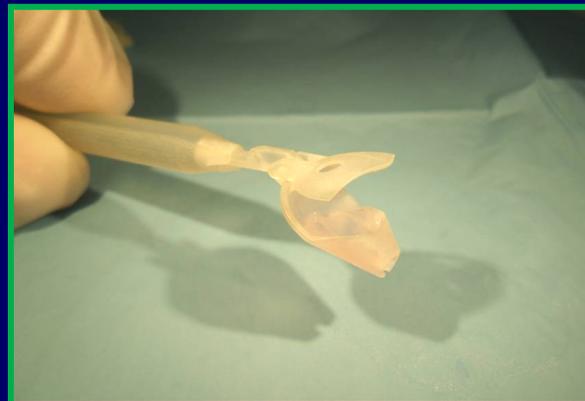
IDEA

CAD

STAMPA 3D

PRODUZIONE

E



# Conclusioni

- Brevetto Europeo e U.S.A.: BX2591R/RCGE/rmp
- Nuovi test di validazione:
  - Conservazione
  - Trasporto
- DSAEK, UT-DSAEK, DMEK

**Grazie**