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Granada-Based Scientists Make The First Artificial Cornea Model Using Rabbit Stem Cells

Main Category: Eye Health / Optometry News

Article Date: 24 Mar 2007 - 0:00 PDT

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Scientiationé tais ceappears in grouptealled il ingenieréa Tisular of the University of

Eye Health / Optometry

Gra newsletter alerts first annicial comea model using stem cells of rabbit's sclerocorneal limbus. This result is a great advance due to the shortage of donors of this transparent epithelium located in the anterior segment of the eyeball that refracts the incordiseftigiAtrticle?he retina. Moreover, these artificial corneas can be a

medicine permeability. Reddit
Experts have obtained a

too for in vitro research into

complete replacement of the cornea using cell

cultures and different tissue-engineering protocols. In order to do so, they have used small biopsies of sclerocorneal limbus taken from rabbits' eyeball. Scientists separate the existing stem cells and isolate them. A biopsy is a diagnostic procedure consisting of taking a sample of tissue to analyse it under a microscope. They also prepare a support with different components including polymers to reconstruct the cornea layers.

Scientists admit that more time is still necessary before these corneas can be applied to humans. However, in their effort to make artificial tissues with a therapeutical use they are expanding their research scope so as to obtain artificial mouth mucous membranes. In the case of this material, highly demanded for odontological and maxilofacial surgery, a similar methodology consisting of biopsies of the mouth is being used.

The tissues obtained pass strict viability tests, that is, quality controls which certify that constructs will not degenerate in the future. In order to do so, experts put the new biological



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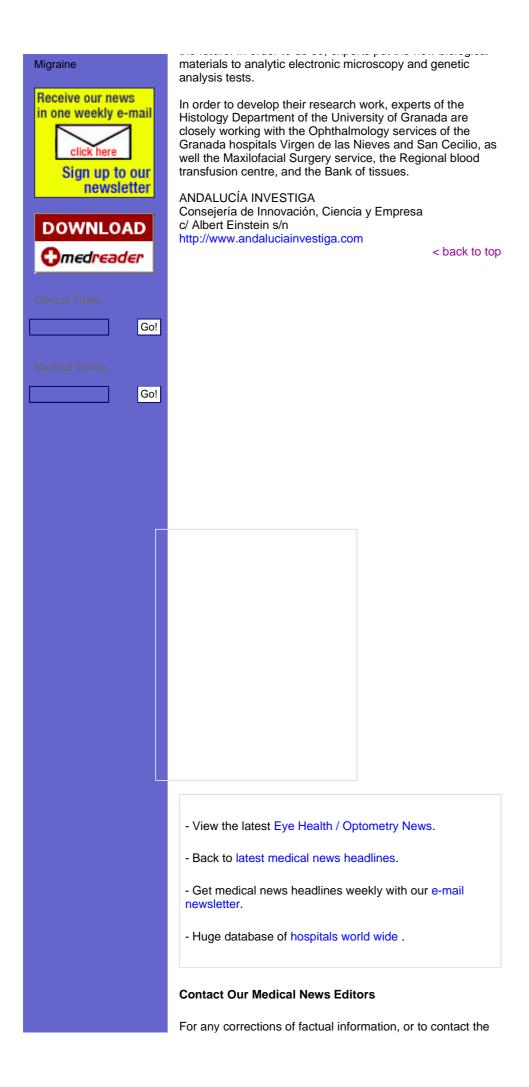
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