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Establishing a three-dimensional culture of canine corneal cells for in vitro studies on the effects of glucocorticoids

By Anke Werner

Cuvillier Verlag Dez 2007, 2007. Taschenbuch. Condition: Neu. Neuware - To provide a model to be used for in vitro studies on drug effects in dogs, the aim of this study was the establishing of a protocol for the primary culture of canine corneal cells (i.e. endothelium, keratocytes, and epithelium) and subsequently the construction of a three dimensional culture of canine corneal cells (cornea equivalent). To study the glucocorticoid effects on the three major cell types of the cornea, dexamethasone was used. Since difficulties in the culture of primary canine corneal cells arose, a rabbit epithelial cell line (RCE cell) was used additionally. Both cell types were compared in their reaction to LPS and SDS stimulation, effects of dexamethasone and morphological appearance on the cornea equivalent. Canine corneal cells were isolated using a combined enzymatic and mechanical technique. In culture, the different cell types were verified with phase contrast microscopy, immunofluorescence and western blotting. The cornea equivalent was constructed step by step in membrane inserts of a six-well plate. Stromal fibroblast in a collagen matrix were seeded onto a confluent endothelial cell layer and cultured for 6 - 8 days. Then either primary canine epithelial cells or RCE cells were...

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