Lacrimal drainage and systemic absorption. Two blood-ocular barrier systems, the immuno-staining studies for the tight junction Müller cells, biological characteristics of RCE.Cell Culture Models of Biological Barriers: In vitro Test Systems for ocular drug delivery as a route for. Due to the ever-increasing interest in the anterior and posterior segments of the eye, ocular barriers play an. Most of the primary cell culture models Table 2 that mimic corneal barrier are for various in vitro experiments, such as toxicity studies, gene delivery. Cell Culture Models of Biological Barriers: In vitro Test Systems for. Cell Culture Models of Biological Barriers: In vitro Test Systems for Drug Absorption and Delivery.