Photokinetic Ocular Drug Delivery Methods and Apparatus

Inventors: Edward R. Kraft; Gabriela A. Kulp; Bernard F. Godley; Aristides P. Koutrovelis

Description:
The present invention relates generally to transscleral, transcorneal, and transocular delivery of biologically active substances through the tissues, blood vessels and cellular membranes of the eyes of patients without causing damage to the cellular surface, tissue or membrane. The invention provides compositions and methods for enhanced transscleral, transcorneal and transocular delivery of biologically active substances using pulsed incoherent light, and particularly the transcleral, transcorneal or transocular delivery of high molecular weight biologically active substances to a patient using pulsed incoherent light. The invention further provides a device for the application of the pulsed incoherent light to cellular surfaces and membranes of the eye of a subject using those compositions and methods.

Patent Status: Patent Pending USSN 12/903,126

Contact:
Sundeep Mattamana, Ph.D.
Associate Director
Office of Technology Transfer
(409) 772-0374
sumattam@utmb.edu