



Thesis Project Form

Title (tentative): Albumin transport across the sclera and implications for central serus chororetinopathy

Thesis advisor(s): Repetto Rodolfo

E-mail: Rodolfo.Repetto@unige.it

Address: Laboratorio di Idraulica Enrico Marchi (zona Villa Cambiaso)

Phone: (+39) 010 33 52471

Description

Motivation and application domain

Central serus chororetinopathy leads to detachment of the retina from the choroid that arises from impaired posterior segment drainage, usually associated with scleral thickening.

General objectives and main activities

To develop a mathematical model that accounts for the main ingredients occurring in central serus chororetinopathy and to explain the mechanics behind it.

Training Objectives (technical/analytical tools, experimental methodologies)

Develop a simple mathematical model of fluid and solutes transport across the sclera and the choroid.

Place(s) where the thesis work will be carried out: DICCA

Additional information

Pre-requisite abilities/skills: Basic knowledge of mathematics and fluid mechanics

Maximum number of students: 1