



## Thesis Project Form

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

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### 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