

Elucidation of the migratory behaviour of the corneal endothelium $\mathop{\rm Miron}\nolimits,$ A.

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Stellingen

Behorend bij het proefschrift getiteld

Elucidation of the migratory behaviour of corneal endothelium

- 1. The one-day endothelial cell density (ECD) count can be used as a baseline to evaluate the *in vivo* change in ECD after DMEK. this thesis
- 2. *In vitro* studies indicate that the endothelial cell counts provided by eye banks overestimate the actual number of viable endothelial cells on a graft. this thesis
- 3. *In vitro* peripheral endothelial cell migration from Quarter-DMEK grafts is not triggered by increasing cell exposure to free space. this thesis
- 4. Outer graft rims cultured *in vitro* in a 3D temperature-reversible hydrogel matrix are the source of migration of two morphologically distinct cell populations. this thesis
- 5. "Small diameter" 4mm circular DMEK grafts represent an option for central Fuchs endothelial cell dystrophy (FECD) and a potential alternative, or rescue strategy, for Descemet stripping only (DSO). this thesis
- 6. Progenitor cells found to reside in specific niches in the corneal far periphery constitute a target for regenerative therapies.
- 7. Based on recent research, alternative strategies for the treatment of corneal endothelial diseases depend less on the availability of donor tissues.
- 8. The human eye has millions of functional cells and is considered the second most complex organ in the body after the brain.
- 9. Neutralizing free radicals, by making sure there are adequate antioxidants in the body, will support healthy vision.
- 10. Strength and creativity reside in the eyes: "the ear tends to be lazy, craves the familiar and is shocked by the unexpected; the eye, on the other hand, tends to be impatient, craves the novel and is bored by repetition". W. H. Auden (1907-1973)
- 11. The Hippocratic Oath creates an imperishable and everlasting bond between art, science, and medicine. "I will remember that there is art to medicine as well as science".