

Understanding the complexity of the corneal endothelium for regenerative medicine

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Propositions

Accompanying the dissertation

Understanding the complexity of the corneal endothelium for regenerative medicine

by

Pere Català Quilis

Maastricht, 13th September 2023

1. Luck is what happens when preparation meets opportunity (Lucius Annaeus Seneca)
2. Gaining insight into corneal cell types and the alterations they undergo *in vivo* or upon manipulation can contribute to understanding and improving therapeutic mechanisms. (Impact of this thesis)
3. Preloaded endothelial grafts can be successfully and viably transported from the eye bank to the operation theater. (This thesis)
4. The human corneal layers were traditionally regarded as bulk entities but these are highly heterogeneous at the single cell level. (This thesis)
5. Primary culture causes alterations in corneal endothelial cells; in our hands lies the responsibility to select those that are suitable for therapy. (This thesis)
6. Understanding the variability within each species corneal endothelium physiology can give new insights for developing new regenerative medicine therapies. (Thesis related)
7. EMT is the monster hiding under the bed for scientists. (Field related)
8. With the future increase in the therapeutic repertoire, it is critical for clinicians to select the best treatment option for each patient. (Field related)
9. Donor tissue shortage can only be addressed with a global and communal attitude. (Field related)
10. Action is nothing without ideas, but ideas are nothing without action.