Propositions pertaining to the thesis

# AUGMENTATION OF NERVE ALLOGRAFTS WITH ANGIOGENESIS AND STEM CELLS

1. The pedicled superficial inferior epigastric artery fascial (SIEF) flap is technically simple to be harvested and increases revascularization of the grafted sciatic nerve in the rat *(This thesis).*

2. Revascularization of a nerve occurs primarily from proximal to distal (proximal inosculation) and not from both ends as previously believed *(This thesis)*.

3. The distribution and direction of newly formed vessels are equally important as the amount of vascularity to the decellularized nerve allograft to improve outcomes *(This thesis)*.

4. The interaction of stem cells with angiogenesis and its contribution to nerve regeneration is interconnected and interdependent *(This thesis).*

5. Despite years of nerve research, the application of stem cell-based therapy has yet to make headways into clinical practice *(This thesis)*.

6. For successful nerve regeneration, the perfect balance between Schwann cells, fibrocytes and vascularity is essential *(This thesis).*

7. Nerve regeneration is influenced by mechanical and biological factors combined and not solely by one of the two (*Federation of European Societies for Surgery of the Hand Conference 2020).*

8. Solutions for diseases that are currently incurable, lie in basic science research *(Massimo Hilliard, TEDx, January 2018).*

9. By combining the strengths of people through positive teamwork, you can achieve goals that no one could have done alone *(Stephen R. Covey, The 7 Habits of Highly Effective People, 1989).*

10. The best measure of productivity is a healthy balance between work and personal life (*Emma Goldberg, When the Surgeon Is a Mom, The New York Times, 2019).*

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