Intra-Articular Application of Mesenchymal Stem Cell Therapy for Osteoarthritis — The Next Step

Optimization of Therapeutic Capacity and Applicability.

1) Intra-articular admission of Mesenchymal Stem Cells is safe. *(this thesis)*

2) A successful strategy to cure osteoarthritis would consist of long-term simultaneously reducing inflammation and promoting tissue regeneration by slow-release systems. *(this thesis)*

3) The intra-articular arthritic environment affects mesenchymal stem cells and thereby their therapeutic function. *(this thesis)*

4) Techniques to label injected cells and cell constructs enable longitudinal imaging to monitor construct integrity and the effectiveness of the cell therapy. *(this thesis)*

5) By encapsulating allogeneic cells in alginate, we are closer to off the shelf therapy with mesenchymal stem cells. *(this thesis)*

6) Systemic metabolic and inflammatory changes in obesity do not always lead to cartilage damage. *Wu Wei*

7) It is not the strongest, nor the most intelligently developed implant that survives. It is the implant that best adapts to the anatomy of the individual patient. *Adapted from Charles Darwin, “It is neither the strongest of the species to survive nor the most intelligent to survive. It is the one most adaptable to change”*

8) No creature was more miserable than man, for that all other creatures are content with those bounds that nature set them, only man endeavours to exceed them. *Desiderius Erasmus*

9) One must not neglect the body and let it become deformed (this is the basic principle of orthopaedics). *Nicolas Andry de Bois-Regard*

10) COVID 19 is a global common enemy that has brought the scientific community together with efforts never seen before.

11) For the strength of the pack is the wolf, and the strength of the wolf is the pack. *Rudyard Kipling, The Jungle Book*