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Title: Misdirection and guidance of regenerating motor axons after experimental nerve injury and repair

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PROPOSITIONS (STELLINGEN)

Misdirection and guidance of regenerating motor axons after experimental nerve injury and repair

- 1 Misdirection of regenerating motor axons can explain the limited recovery of ankle motion after experimental sciatic nerve injury and repair. (this thesis)
- 2 Multichannel nerve tube repair reduces the axonal dispersion that occurs in regeneration across single lumen nerve tubes. (this thesis)
- 3 Gene therapy has the potential to guide regenerating motor axons into a specific nerve branch. (this thesis)
- 4 Currently there is no solid scientific proof to support the clinical use of single lumen nerve tubes in the repair of motor nerves. (this thesis)
- 5 The core of the problem is not promoting axon regeneration, but in getting them back to where they belong. (Sir Sydney Sunderland, *Nerve injuries and their repair: a critical appraisal*, 1991, Melbourne, Churchill Livingstone)
- 6 Guidance of regenerating axons after spinal cord injury will be even more challenging than in peripheral nerve repair, considering the multiple distinct ascending and descending columns in the spinal cord.
- 7 Expandable cages can be used successfully to reconstruct the anterior column of the spine after single and multilevel corpectomies for the removal of spinal metastases.
- 8 Intraneuronal ganglia are connected to the joint through the articular branch of the nerve. Knowledge of this pathogenesis is necessary to improve treatment and eliminate recurrences. In addition to cyst drainage, exploration and ligation of the articular branch is of paramount importance in the successful operation of intraneuronal ganglia. (Robert J. Spinner et al. *Journal of Neurosurgery*, August 2003; 99(2): 330-43)
- 9 As I look back on these men who influenced me so greatly, I realize that their influence lay not in their craftsmanship, but in their high qualities of mind. (William J. Mayo, *Annals of Surgery*, January 1925; 81(1): 3-8)
- 10 Form ever follows function. (Louis Sullivan, The Tall Office Building Artistically Considered, *Lippincott's Magazine*, March 1896; 57: 403-9)
- 11 To me style is just the outside of content, and content the inside of style, like the outside and the inside of the human body. Both go together, they can't be separated. (Jean Luc Godard, quoted in Richard Roud, *Godard*, 1967)
- 12 Well he's a full Dr. (Still D.R.E., Dr DRE featuring Snoop Dogg, The Chronic 2001)