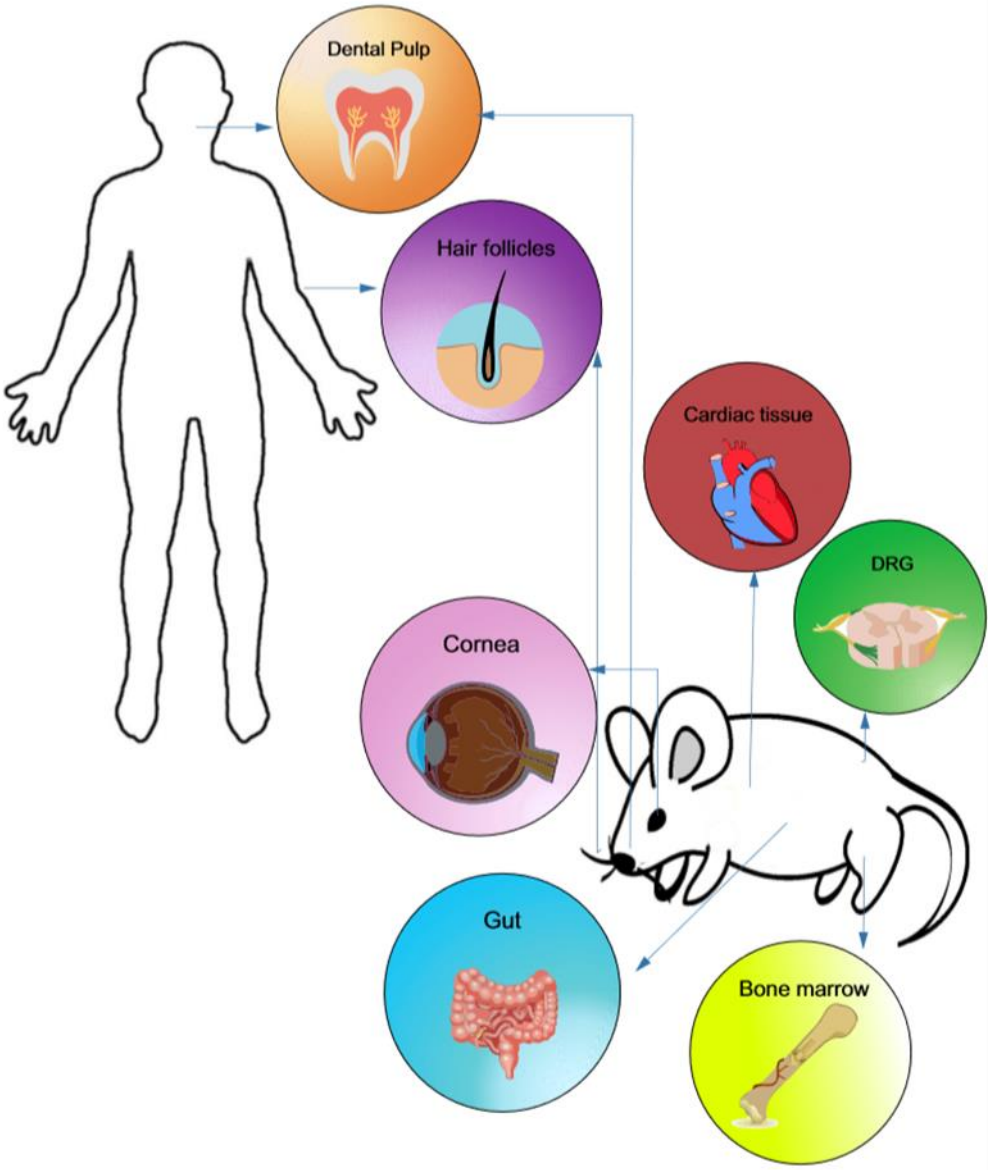
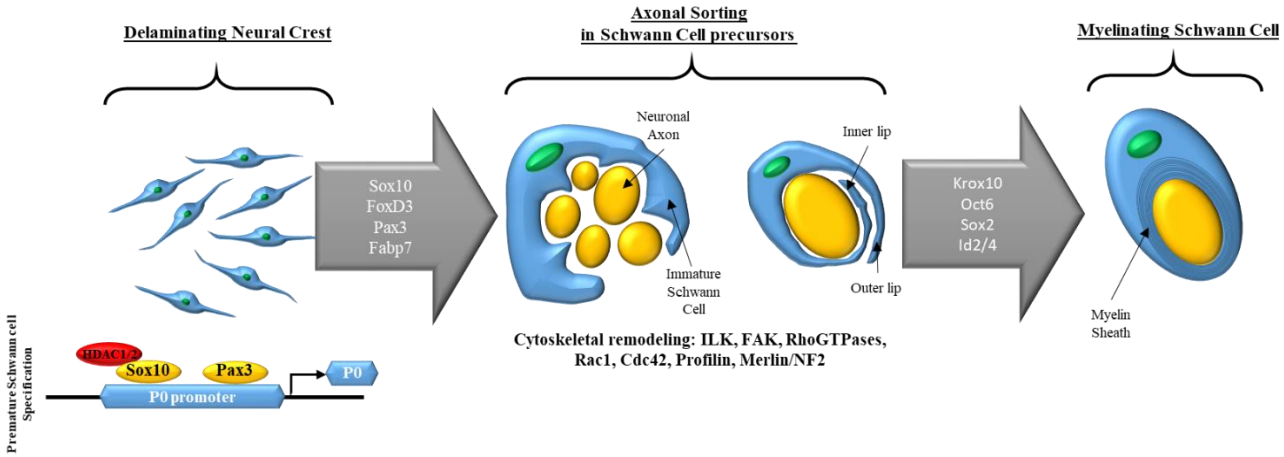
Supplemental Information



Supplemental Figure S1*: Adult sources for in vitro expansion of multipotent stem cells exhibiting an NC-like phenotype. From the above mentioned sources, only cells from dental pulp and hair follicles have been successfully isolated and studied in humans.*



Supplemental Figure S2*: A Neural Crest Stem Cell's journey to myelination. Delaminating, post migratory NC follow Wnt and FGF signals and upregulate key transcription factors like Sox10, FoxD3 and Pax3. By recruiting HDAC1/2, myelin protein 0 is upregulated leading to a Schwann cell precursor phenotype. During this immature Schwann cell stage, Schwann cells initially approach multiple axons and after undergoing significant cytoskeletal reorganization, each one myelinates a single axon, a process referred to as axonal sorting. Finally, the mature Schwann cell envelopes along the neuronal axon with myelin sheath to facilitate saltatory electrical impulse conduction.*