

# Download Neural Transplantation Cns Neuronal Injury And Regeneration

Neural stem cells (NSCs) are self-renewing, multipotent cells that firstly generate the radial glial progenitor cells that generate the neurons and glia of the nervous system of all animals during embryonic development. Some neural progenitor stem cells persist in highly restricted regions in the adult vertebrate brain and continue to produce neurons throughout life.<sup>1</sup> Introduction. Tissue engineering aims to restore tissues following damage incurred through traumatic injury or prolonged disease progression. Biomaterials can be used to fill defects, support cell infiltration, and/or deliver therapeutic factors. More than a decade ago, spinal-cord injury meant confinement to a wheelchair and a lifetime of medical comorbidity. The physician's armamentarium of treatments was very limited, and provision of care for individuals with spinal-cord injury was usually met with frustration. The clearance of damaged myelin sheaths is critical to ensure functional recovery from neural injury. Here we show a previously unidentified role for microvessels and their lining endothelial ...