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Author Hanna Berglind		
Title (English) In vitro regulation of neuronal markers in differentiating adult mouse neural stem cells		
Title (Swedish)		
Abstract In an attempt to learn more about the development of adult neural stem cells, this study focuses on the <i>in vitro</i> characterisation of the neuronal markers doublecortin, β III tubulin and microtubule associated protein type 2. Their regulation has been analysed in a time dependent manner in adherent adult mouse neural stem cells following control versus platelet-derived growth factor (PDGF) treatment. In addition, 5'-bromo-2'-deoxyuridine studies have been performed to provide information about expression of neuronal markers in newly differentiated stem cells. PDGF was found to have a proliferative effect on neuronal progenitors. This study shows that it is possible to measure, in a semi-quantitative way and in a time dependent manner, <i>in vitro</i> proliferation and differentiation of adult mouse neural stem cells.		
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Supervisors Cesare Patrone NeuroNova AB		
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Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217

