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### Adult hippocampal cell birth and death in relation to stress, aging and the vasculature

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## Publications

### Papers

- Heine V.M., Maslam S., Joëls M. and Lucassen P.J. (2001) Young and old cells in young and old brains – Changes in hippocampal apoptosis and neurogenesis with aging in the rat dentate gyrus. *Neurobiology – An International Multidisciplinary Journal in Neurosciences*. 9(3-4): 193-195.
- Qin Y.\*, Heine V.M.\*, Karst H., Lucassen P.J. and Joëls M. (2003) Gene expression patterns in rat dentate granule cells: comparison between fresh and fixed tissue. \*Shared first authorship. *Journal of Neuroscience Methods*: 131(1-2): 205-11.
- Heine V.M., Maslam S., Joëls M. and Lucassen P.J. (2004) Prominent decline of newborn cell proliferation, differentiation, and apoptosis in the aging dentate gyrus, in absence of an age-related hypothalamus-pituitary-adrenal axis activation. *Neurobiology of Aging*, 25: 361-375.
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- Heine V.M., Maslam S., Joëls M. and Lucassen P.J. (2004) Increased p27Kip1 protein expression in the dentate gyrus of chronically stressed rats indicates G1 arrest involvement. *Neuroscience*, in press.
- Heine V.M., Maslam S., Zareno J., Joëls M. and Lucassen P.J. (2004) Chronic stress reduces vascular-associated adult proliferation, VEGF and Flk-1 protein expression in the rat dentate gyrus. *submitted*
- Heine V.M., Maslam M., Kleefstra A., Joëls M. and Lucassen P.J. (2004) Age-related changes in the vascular-associated population of actively cycling cells in the rat dentate gyrus. *submitted*
- Tiesjema B., Heine V.M., Kamphuis P.J.G.H., Van Bel F., Wiegant V.M. and Lucassen P.J. (2004) Neonatal dexamethasone treatment alters neurogenesis and apoptosis in the adult rat hippocampus. *submitted*.

**Book chapters**

Lucassen P.J., Heine V.M., Boekhoorn K. and Krugers H. (2002) Neural Degeneration. *In Nadel, L. (Ed.) Encyclopedia of Cognitive Science. Vol. 3, pp. 246 - 252. London: Nature Publishing Group.*

Joëls M., Karst K., Verkuyl M., Van Riel E., Alfarez D., Heine V.M., Krugers H. and Lucassen P.J. (2004) Effects of chronic stress on hypothalamic and hippocampal cell function and structure in rat. *Proceedings ISPNE meeting UK, in preparation.*









