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Shaping the brain through experience: effects of stressful life events on hippocampal neurogenesis, morphology and function

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List of Publications

International journals:

- **Oomen C.A.**, Soeters, H., Audureau N., Vermunt L., Van Hasselt F.N., Manders E., Joels, M., Lucassen P.J., Krugers H. Early maternal deprivation affects dentate gyrus structure and emotional learning in adult female rats. *Psychopharmacology (under review)*
- **Oomen C.A.**, Soeters, H., Audureau N., Vermunt L., Van Hasselt F.N., Manders E., Joels, M., Lucassen P.J., Krugers H. Severe early life stress hampers spatial learning and neurogenesis, but improves hippocampal plasticity and emotional learning under high-stress conditions in adulthood. *Journal of Neuroscience (in press)*
- Lucassen P.J., Meerlo P., Naylor A.S., van Dam A.M., Dayer A.G., Fuchs E., **Oomen C.A.**, Czéh B. Regulation of adult neurogenesis by stress, sleep disruption, exercise and inflammation: Implications for depression and antidepressant action. *Eur. Neuropsychopharmacol. Jan;20(1):1-17. Epub (2010) Review*
- **Oomen C.A.**, Farkas E., Roman V., Van der Beek E.M., Luiten P.M.G., Meerlo P. Resveratrol preserves cerebrovascular density and cognitive function in aging mice. *Frontiers in Aging Neuroscience*, 1:4. doi:10.3389/neuro.24.004.2009 (2009)
- **Oomen C.A.**, Girardi C.E.N., Cahyadi R., Verbeek E.C., Krugers H., Joëls M., Lucassen P.J. Opposite effects of early maternal deprivation on neurogenesis in male versus female rats. *PLOSone (4) 1, e3675. (2009)*
- **Oomen C.A.**, Mayer J.L., Joëls M., de Kloet E.R., Lucassen P.J. Brief treatment with the GR antagonist mifepristone normalizes the reduction in neurogenesis after chronic stress. *European Journal of Neuroscience (26)*, 3395-3401. (2007)
- Jarajapu Y.P., **Oomen C.A.**, Uteshev V.V., Knot, H.J. (2006) Histamine decreases myogenic tone in rat cerebral arteries by H2-receptor-mediated KV channel activation, independent of endothelium and cyclic AMP. *European Journal of Pharmacology*, 547, 116-124.

Book chapters:

- Lucassen P.J., Meerlo P., Van Dam A.M., Dayer A., Naylor A., Czeh, B. and **Oomen C.A.** Do depression, stress, inflammation and sleep alter hippocampal apoptosis and neurogenesis? In: *Depression: a translational approach*. (Ed: CM Pariante). Harvard Science Publishers. (2009)
- Lucassen P.J., **Oomen C.A.**, Van Dam A., Czeh, B. Regulation of hippocampal neurogenesis by systemic factors including stress, glucocorticoids, sleep and inflammation. In: *"Adult Neurogenesis"* (Ed: F.H. Gage, G. Kempermann, H. Song). Cold Spring Harbor Laboratory Press. (2008)

Online publications:

- Lucassen P.J., Verbeek E.C., **Oomen C.A.** Wat doen die nieuwe hersencellen daar? Neurogenese en celdood in volwassen hersenen (In Dutch). Online journal BLIND! issue 15, online April 2008 at www.ziedaar.nl.