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**Academic degrees:** M.Sc. in Biochemistry in 2005 and Ph.D. degree in Neuroscience and Pharmacology in 2010 from the University of Copenhagen, Denmark.

**Appointments and training:** Postdoc and research fellow at the Research Laboratory for Stereology and Neuroscience, Bispebjerg- Frederiksberg Hospital, Copenhagen, Denmark (2012- present); Academic associate at the Research Laboratory for Stereology and Neuroscience, Bispebjerg and Frederiksberg Hospital, Copenhagen, Denmark (2011-2012); Scientific assistant at the Laboratory of Neuropsychiatry, University Hospital - Rigshospitalet, Copenhagen, Denmark (2005-2006).

**Experimental expertise:**

- Genotherapy; microinjection; stereotaxy; perfusion fixation; tissue dissection and sectioning; transgenic mice; rodent tests and models for motor coordination, activity, pain, stress, depression, anxiety and epilepsy.
- *in situ* hybridising; QRT-PCR; western blotting; autoradiography; immuno- and cytochemistry; light- and fluorescence microscopy; stereology.

**Other scientific activities:** Supervisor and co-supervisor of internal M.D. and M.Sc. students; Participated and presented at several national and international meetings and conferences.

Links to dissemination:

<http://videnplus.nu/elektrochok-giver-flere-hjernerceller/>

<http://politiken.dk/viden/ECE2983673/elektrochok-faar-hjernen-til-at-spire-hos-psykisk-syge/>

<http://www.dr.dk/nyheder/viden/plilivex/dansk-forskning-elektrochok-danner-flere-hjernerceller/>

**Publications:** Original papers: 11 published, 2 submitted and 3 in progress

1. Olesen MV, Wörtwein G, Pakkenberg B (2015) *Electroconvulsive stimulation, but not chronic restraint stress, causes structural alterations in adult rat hippocampus – a stereological study.* Hippocampus 25 (1): 72-80.
2. Christiansen SH, Olesen MV, Gøtzsche CR, Woldbye DPD (2014) *Anxiolytic-like effects after vector-mediated overexpression of neuropeptide Yin the amygdala and hippocampus of mice.* Neuropeptides 48 (6):335-344.
3. Goncalves J, Baptista S, Olesen MV, Fontes-Ribeiro C, Malva JO, Woldbye DP, Silva AP (2012) *Methamphetamine induces changes in the mice hippocampal neuropeptide Y system: implications for memory impairment.* Journal of Neurochemistry 123 (6):1041-53.
4. Olesen MV, Christiansen SH, Gøtzsche CR, Nikitidou L, Kokaia M, Woldbye DP (2012) *Neuropeptide Y Y1 receptor hippocampal overexpression via viral vectors is associated with anxiolytic-like and proconvulsive effects in mice.* Journal of Neuroscience Research 90 (2): 498-507.
5. Olesen MV, Christiansen SH, Gøtzsche CR, Holst B, Kokaia M, Woldbye DP (2012) *Moderate hyperactivity induced by rAAV vector-mediated Y5 neuropeptide Y receptor overexpression in mice.* Neuropeptides 46 (2): 71-79.
6. Gøtzsche CR, Sørensen AT, Nikitidou L, Olesen MV, Sørensen G, Christiansen SH, Ängelagen M, Woldbye DP (2012) *Combined gene overexpression of neuropeptide Y and its receptor Y5 in the hippocampus suppresses seizures.* Neurobiology of Disease 45 (1): 288-96.
7. Christiansen SH, Olesen MV, Wörtwein G, Woldbye DP (2011) *Fluoxetine reverts chronic stress- induced depression-like behaviour and increases neuropeptide Y and galanin expression in mice.* Behavioural Brain Research 216(2): 585-91.
8. Woldbye DP, Ängelagen M, Gøtzsche CR, Kristiansen H, Sørensen AT, Christiansen SH, Olesen MV, Nikitidou L, Hansen TVO, Kanter-Schlifke I, Kokaia M (2010) *AAV vector- induced overexpression of neuropeptide Y Y2 receptor in the hippocampus suppresses seizures.* Brain 133 (9): 2778-2788.
9. Thomsen M, Wörtwein G, Olesen MV, Begstrup M, Havez S, Bolwig TG, Woldbye DP (2007) *Involvement of Y5 receptor in neuropeptide Y agonist-induced analgesic-like effect in the rat hot plate test.* Brain Research 1155: 49-55.
10. Christensen DZ, Olesen MV, Kristiansen H, Mikkelsen JD, Woldbye DP (2006) *Unaltered Neuropeptide Y (NPY)-Stimulated [35S] - GTPγS Binding After Repeated Electroconvulsive Seizures in Mice.* Journal of Neuroscience Research 84: 1282-1291.
11. Larsen MH, Olesen M, Woldbye DP, Hay-Schmidt A, Hansen HH, Rønn LCB, Mikkelsen JD (2005) *Regulation of activity-regulated cytoskeleton protein (Arc) mRNA after acute and chronic electroconvulsive stimulation in the rat.* Brain Research 1064: 161-165.