

# Waxholm Space atlas of the Sprague Dawley rat brain

## Release notes v2

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2 February 2015

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## What's new?

Version 2 of the Waxholm Space atlas of the Sprague Dawley rat brain contains new and updated delineations of the hippocampal formation and parahippocampal region, as described in Kjonigsen et al. 2015. The new atlas includes 79 anatomical structures. 13 of these are new or revised delineations of the hippocampal formation and parahippocampal region. 66 structures are identical to those in v1.01, as described in Papp et al. 2014. Two structures (“neocortex” and “corpus callosum and associated subcortical white matter”) were adjusted to match the updated outer boundaries of the hippocampal formation and parahippocampal region.

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## How to use the new atlas?

The atlas consists of volumetric delineations (.nii.gz) and corresponding labels containing the names of anatomical structures (.label). The atlas should be used together with the latest version of the MRI/DTI template (v1.01). A bundled zip download package of the typically used atlas and template files are provided for easy access, containing the atlas (v2) and the structural MRI (T2\*) and DTI (RGB-color FA map) template v1.01. The files are compatible with ITK-SNAP (version 3.0, not 3.2) and MBAT.

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## References

Papp EA, Leergaard TB, Calabrese E, Johnson GA, Bjaalie, JG (2014) Waxholm Space atlas of the Sprague Dawley rat brain. *NeuroImage* 97, 374-386

Kjonigsen LJ, Lillehaug S, Bjaalie JG, Witter MP, Leergaard TB (2015) Waxholm Space atlas of the rat brain hippocampal region: Three-dimensional delineations based on magnetic resonance and diffusion tensor imaging. *NeuroImage*, in press