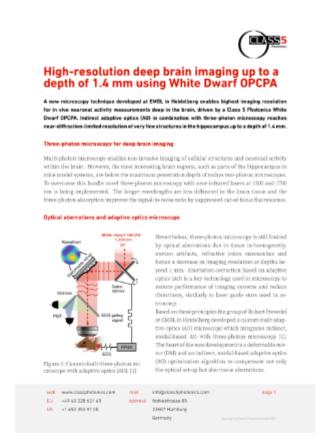


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High-resolution deep brain imaging up to a depth of 1.4 mm using White Dwarf **OPCPA**

A new microscopy technique developed at EMBL in Heidelberg enables highest imaging resolution for in vivo neuronal activity measurements deep in the brain, driven by a Class 5 Photonics White Dwarf OPCPA. Indirect adaptive optics (AO) in combination with three-photon microscopy reaches near-diffraction-limited resolution of very fine structures in the hippocampus up to a depth of 1.4 mm. The results published in Nature methods have been achieved during a demo roadshow of the White Dwarf OPCPA. Hence, the great success motivates us to our next demo roadshow in 2022. Achieve immediate, new scientific results in Neuroscience with the White Dwarf by testing and trying out our high performance laser system specially designed for 3-photon microscopy at 1300 and 1700 nm.

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