

Imagine Optic & partners receive ANR national research grant to develop next generation Adaptive Optics systems for microscopy & neuroimaging

Imagine Optic and their research partners ESPCI, ENS and CNRS are pleased to announce that they have been awarded a ~600k€ ANR national grant for the development of new adaptive optics (AO) approaches targeting high-performance in-vivo neuroimaging. The **InovAO** project targets significant improvement of the spatio-temporal resolution of neuronal activity signals in large networks, using AO-based optical sectioning microscopy setups. In particular, innovative wavefront sensing approaches will be developed, providing simplified AO implementation and use, as well as optimal performance. AO-based light-sheet and two-photon microscopy setups will be developed accordingly and used to record improved functional signals from individual cells in specific neural networks of mouse and drosophila brains.



The consortium gathers renowned experts in the field of AO (Imagine Optic), high-resolution microscopy for biology (ESPCI), in neuroimaging & behavioral studies of rodents (ENS - IBENS), and in the study of drosophila brains (CNRS - Neuro-PSI). The InovAO project is the first step toward industrial AO-based, easy-to-use microscopy solutions for use in neuroscience.

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