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A super-resolution approach for receptive fields estimation of neuronal ensembles

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This study presents for the first time a simple approach allowing quick and simultaneous extraction of receptive field profiles with great accuracy from hundreds to thousands of retinal ganglion cells. The method not only ensures strong responses because these stimuli are big (e.g. 160 μ m), but it also provides receptive field measurements at super resolution thanks to the small shifts (40 μ m) applied to the basic checkerboard stimuli.



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