

SELECTED TOPICS IN QUANTUM ELECTRONICS

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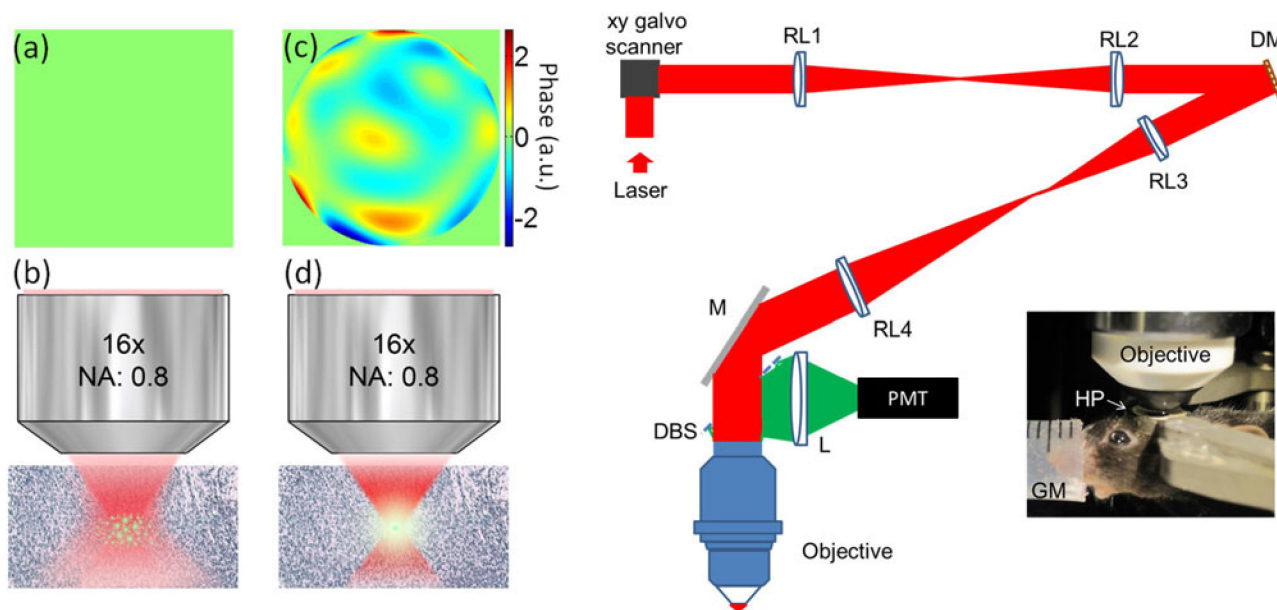
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(Left) An illustration of wavefront distortion and compensation in optical microscopy. Without wavefront correction (a), the focus is distorted (b). With wavefront correction (c) to compensate the tissue induced distortions, the diffraction limited focus is recovered (d). (Right) The experimental setup for the Interactive MultiPhoton Adaptive Compensation Technique (IMPACT) including a subject mouse. RL: relay lens, DM: deformable mirror, M: mirror, DBS: long-pass dichroic beam splitter, L: lens, PMT: photomultiplier tube. Inset: the photo of a head-restrained mouse under the objective for *in vivo* imaging. HP: head post; GM: gas mask.
(Lingjie Kong *et al.*, article number 680310)

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