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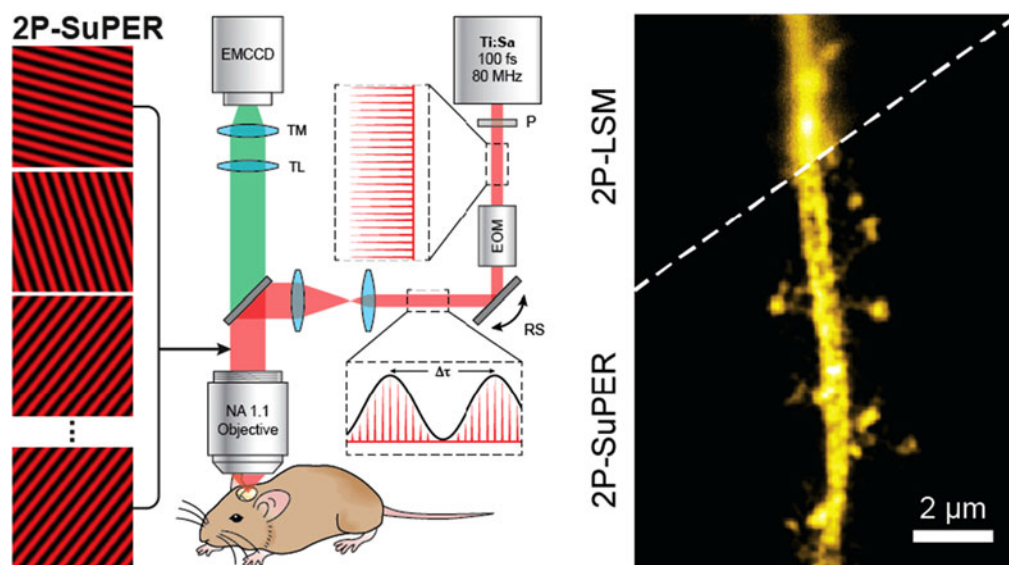
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Super-resolution Patterned Excitation Reconstruction (2P-SuPER) microscopy combines two-photon laser scanning microscopy (2P-LSM) with the super-resolution ability of structured illumination microscopy. This technique optimizes the combination of imaging resolution, speed, and depth for super-resolution investigations in the brains of living animals. See “*In vivo* super-resolution imaging of neuronal structure in the mouse brain,” by Urban *et al.*, p. 232.



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