Silent synapses and the emergence of a postsynaptic mechanism for LTP

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In the above article, an important reference was omitted and appropriate credit was not given for the first observation of silent synapses by laser-evoked glutamate uncaging on to single, visually identified dendritic spines. In the rat hippocampal CA1 region, Beique *et al.*¹ observed thin spines that exhibited an NMDAR-mediated response at +40 mV, but no AMPAR-mediated response at –70 mV, a little over a year before a similar observation by Busetto *et al.*².

1. Beique, J. C. *et al.* Synapse-specific regulation of AMPA receptor function by PSD-95. *Proc. Natl Acad. Sci. USA* **103**, 19535–19540 (2006).
2. Busetto, G., Higley, M. J. & Sabatini, B. L. Developmental presence and disappearance of postsynaptically silent synapses on dendritic spines of rat layer 2/3 pyramidal neurons. *J. Physiol.* **586**, 1519–1527 (2008).