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Title: Structure and diversity of human dendritic spines evidenced by a new three-dimensional reconstruction procedure for Golgi staining and light microscopy

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Research Paper**STRUCTURE AND DIVERSITY OF HUMAN DENDRITIC SPINES
EVIDENCED BY A NEW THREE-DIMENSIONAL RECONSTRUCTION
PROCEDURE FOR GOLGI STAINING AND LIGHT MICROSCOPY****Roman Reberger^{1,2}, Aline Dall'Oglio³, Claudio R. Jung^{2,*} and Alberto A. Rasia-Filho^{3,4*}**

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Highlights

- Human dendritic spines were studied from formalin fixed tissue stored for long time.
- The “single-section” Golgi method provided suitable data for 3D reconstruction.
- Procedure is relatively easy, requires minimal equipment and computer software.
- A new algorithm provides detailed images with high quality using light microscopy.
- Human spines show a continuum of shapes and sizes at different visualizing angles.

Abstract

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