

Scanning Electron Micrograph of M. Mycoides JCVI-syn1: The First Self-Replicating Synthetic Bacterial Cell

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DESCRIPTION

This is an image of the first self-replicating, synthetic bacterial cell constructed by researchers at the J. Craig Venter Institute (JCVI).

Specifically, the image shows a scanning electron micrograph of *M. mycoides* JCVI-syn1 that was taken by Tom Deerinck and Mark Ellisman of the National Center for Microscopy and Imaging Research at UC San Diego. The samples were post-fixed in osmium tetroxide, dehydrated and critical point dried with CO2, then visualized using a Hitachi SU6600 scanning electron microscope at 2.0 keV.

The image is available for licensing/print permission. It can be viewed through the following links:

- ▶ [UC San Diego](#)
- ▶ [J Craig Venter Institute](#)

Additional information about this first self-replicating, synthetic bacterial cell can be found in the JCVI press release “[First Self-Replicating Synthetic Bacterial Cell](#)” and the JCVI paper “[Creation of a Bacterial Cell Controlled by a Chemically Synthesized Genome](#),” *Science* 2 July 2010:Vol. 329 no. 5987 pp. 52-56.

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