



Unknown

Our Lord's Candle (*Yucca whipplei*), Lakeview Mountains, 22 Apr 2006  
Courtesy of "Takwish." <http://takwish.smugmug.com/>.

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Postcard: "Granite Quarry, St. Cloud MN"

<http://www.rootsweb.com/~usgenweb/mn/stearns/postcards/quarry.jpg>



Stone Bridge over Bull Run

<http://www.virginiaplaces.org/vagupnova/mnbp.html>

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Millau Viaduct, France

Courtesy of [Tor Lillqvist](#).



Amazon jungle, Peru. [Courtesy of Nathan Snider.](#)

# FAB TREE HAB

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Courtesy of Mitchell Joachim. Used with permission.  
See <http://www.archinode.com/bienal.html>.

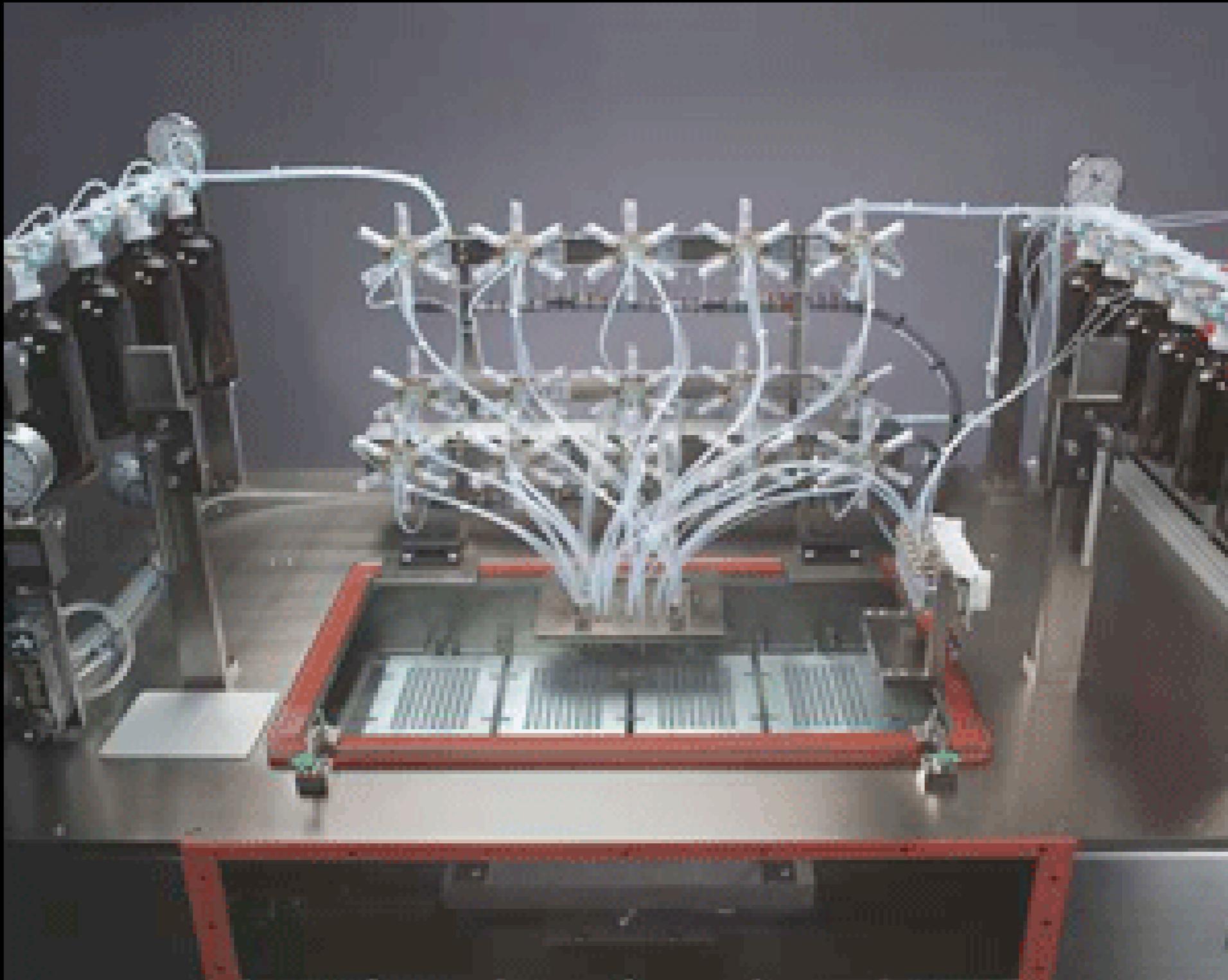


2003 installation by Patrick Dougherty at Common Ground,  
New Harmony, IN. (<http://www.stickwork.net>).  
Photo © Doyle Dean. Used with permission.

# Automated Construction



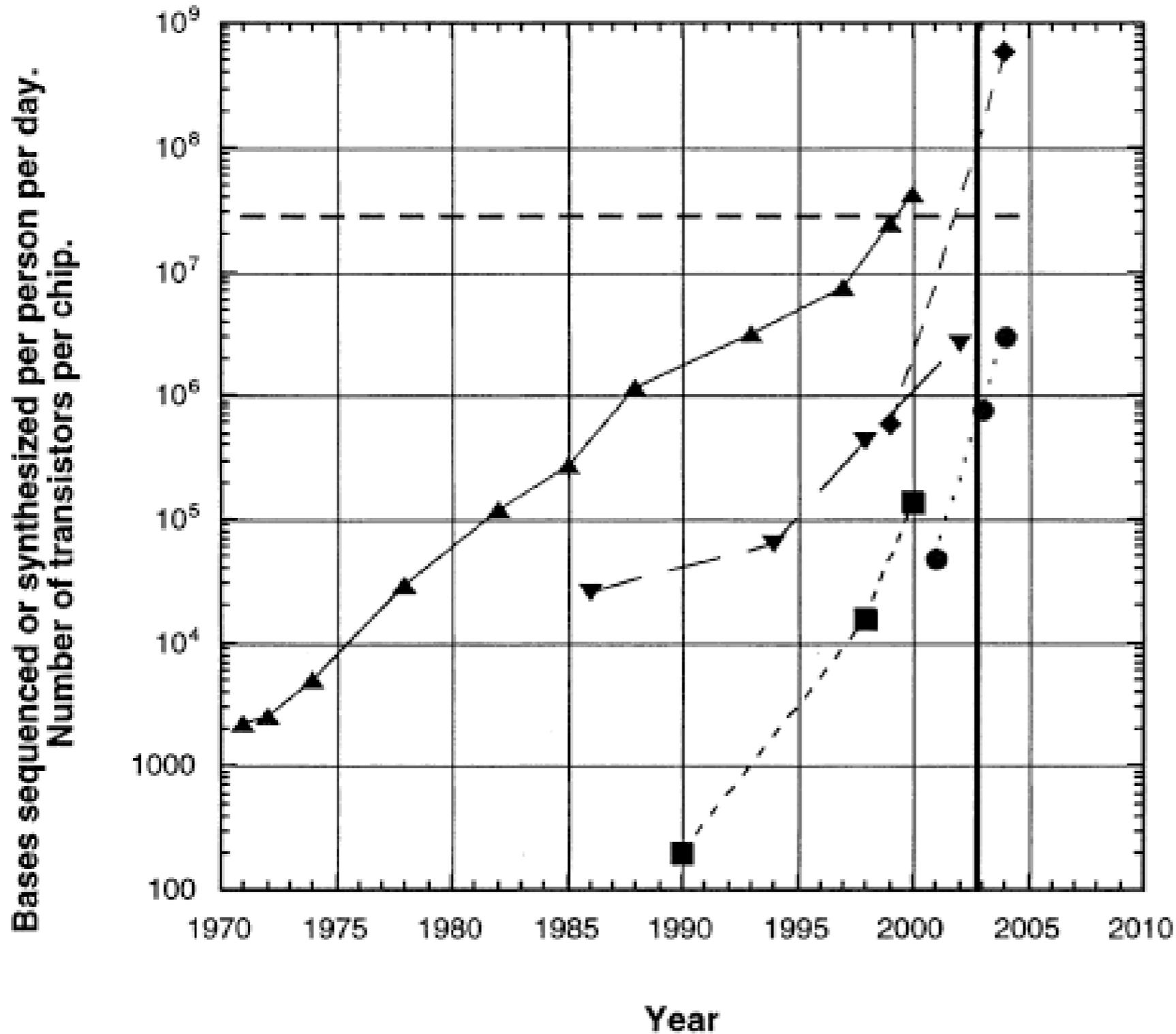




BioAutomation MerMade 384 Well DNA/RNA Synthesizer. Photo courtesy of BioAutomation Corp. Used with permission.  
(<http://www.bioautomation.com/Synthesizers-MerMade%20384.html>)

- ▲— Number of transistors per chip
- ▼— - ABI sequencers
- ◆— - Pyrosequencing
- -■- - ABI synthesizers
- -●- - Egea GeneWriter
- -■- - E Coli DNA Polymerase III

## Productivity Improvements in DNA Synthesis and Sequencing (as of October, 2002)



Courtesy of Mary Ann Liebert, Inc. Publishers.  
Used with permission.

Carlson, Pace & Proliferation of Biological Technologies, Biosec. & Bioterror. 1(3):1 (2003)

How exactly does  
DNA synthesis work?

Coupling efficiency?

How do you build genes?