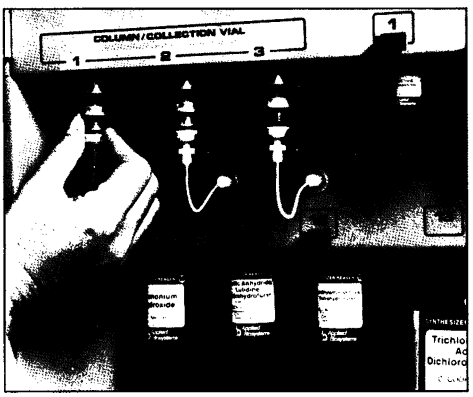
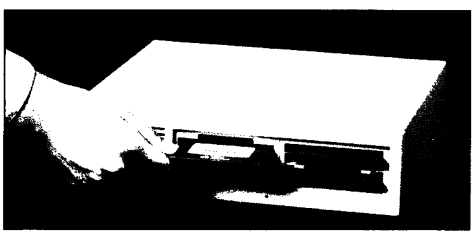
BIOSYSTEMS UPDATE

New Instrument for Multiple DNA Syntheses

Applied Biosystems has announced a new option for its Model 380A DNA Synthesizer which allows it to make three different oligonucleotides simultaneously. Syntheses can be started and stopped independently of one another so several users can share the same instrument. With this new option, the productivity of the 380A is tripled for less than one-fourth the original cost of the instrument. You also save bench space and minimize reagent consumption.



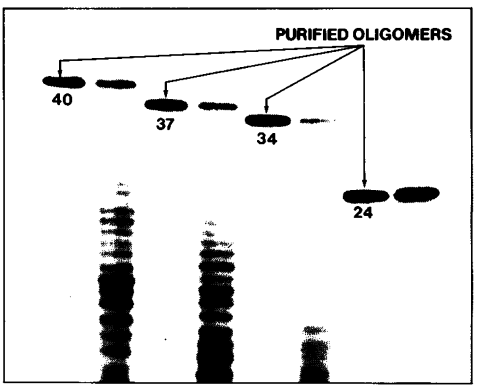
Three synthesis columns can be operated independently and simultaneously, tripling the productivity of the Applied Biosystems Model 380A DNA Synthesizer.



Disc drive for storage of your chemical methods.

This new option also includes hardware and software which allow you to use your own procedures. You can use other chemistries and even make oligonucleotide analogues. All functions required for DNA synthesis are available and your methods are stored on a flexible disc. With 18 solvent/reagent reservoirs, the 380A offers flexibility unmatched by other synthesizers.

Applied Biosystems has the total solution for your DNA synthesis needs. We provide ultrapure, highly stable reagents, the key to successful syntheses. With our efficient phosphoramidite chemistry, you can make DNA with up to 50-60 bases without the use of the dimers, trimers or ligation required with other chemistries. This is the true test



Autoradiogram of ^{32}P labeled oligonucleotides up to 40 bases long. Efficient phosphoramidite chemistry allows direct synthesis of long oligonucleotides.

of coupling efficiency. Only the Applied Biosystems Model 380A DNA Synthesizer can synthesize long oligonucleotides quickly and with high product yields. And if your requirements for DNA are large, you can now synthesize three times as much with one instrument.

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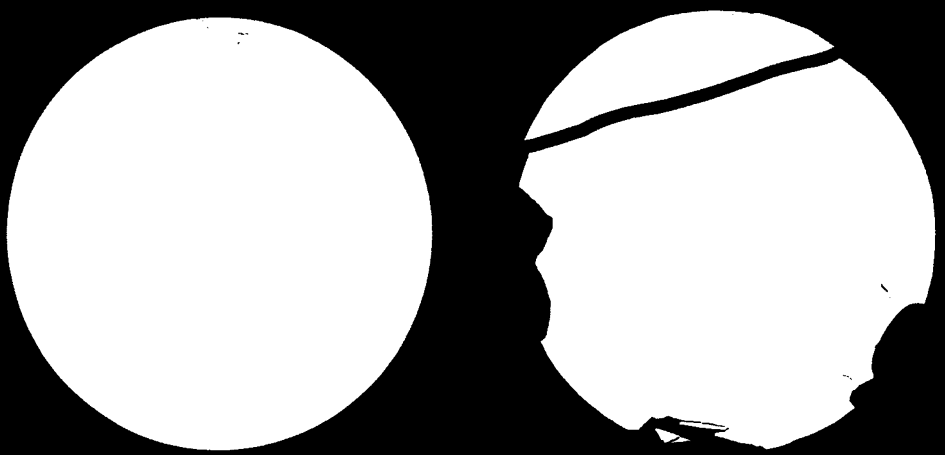
and Nitrocellulose membrane after colony lift (right), under identical conditions.



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Parts 1 and 2

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A special supplement to the journal *'Nucleic Acids Research'*

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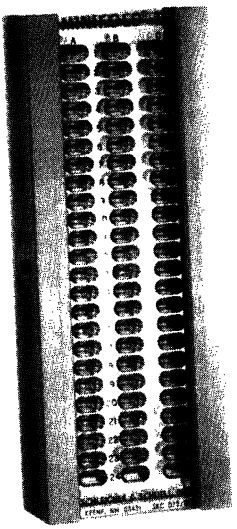

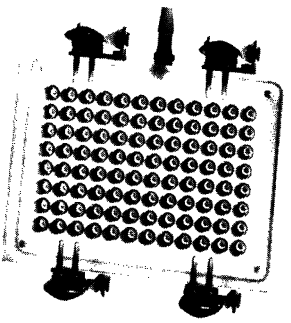

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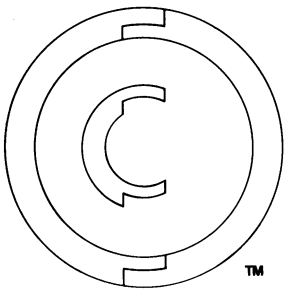

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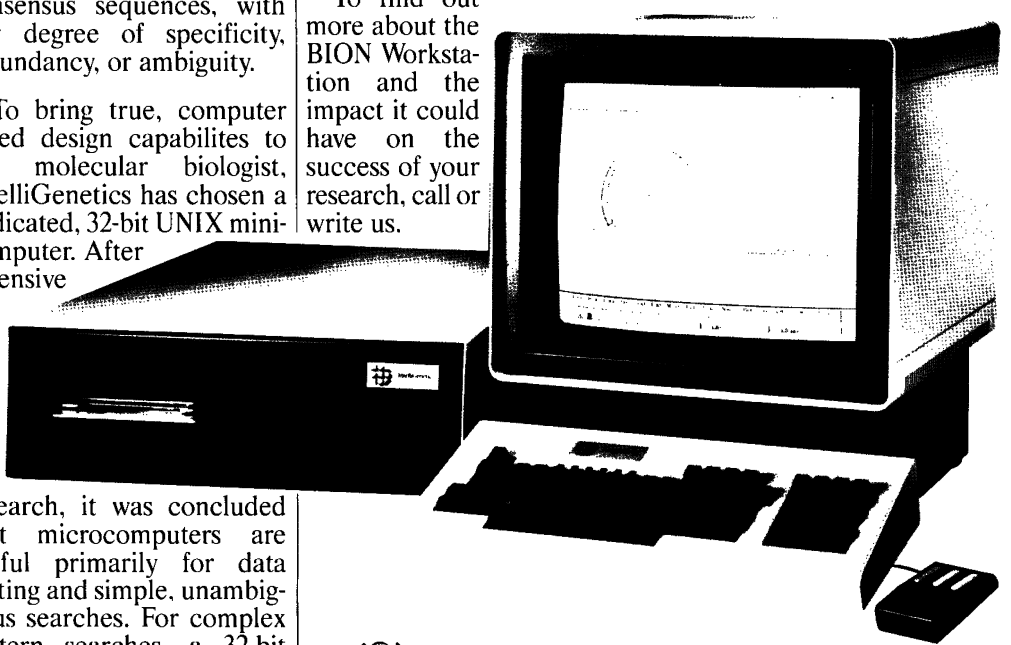

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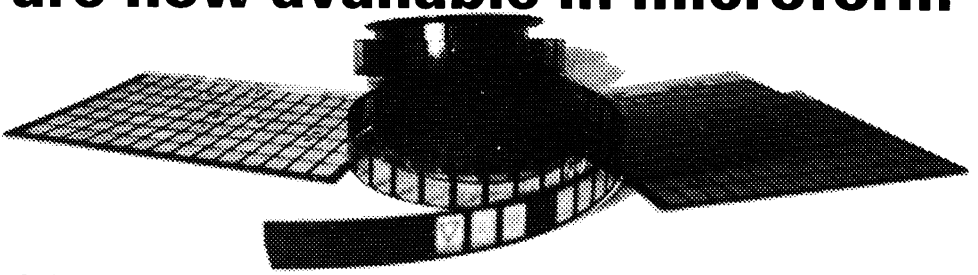

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