

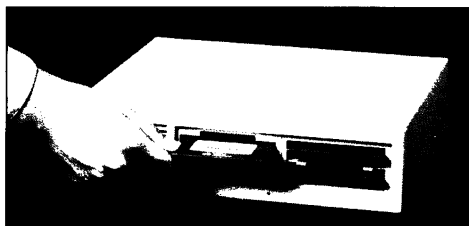
BIOSYSTEMS UPDATE

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.

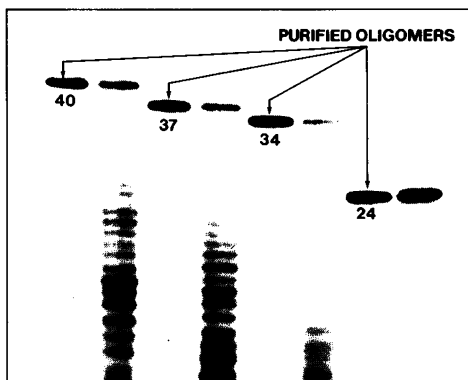


Disc drive for storage of your chemical methods.

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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NEW

Transcription and translation a practical approach

Edited by
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and
S.J.Higgins

Step-by-step instructions
on the experimental
systems used in
transcription and
translation



J.B.Gurdon, in his introduction to the book, states

"... During recent years, experimental systems have greatly improved both in the range and efficiency of the gene expression steps which they carry out. Furthermore, there has been a great proliferation in the types and sources of systems which can be usefully applied to a particular problem. I therefore believe that the present volume will be very widely welcomed. The chapters have been contributed by those who have extensive experience of the procedures involved, and who, in many cases, have been directly involved in their development . . ."

Contents

Introduction: *J.B.Gurdon* • Expression of exogenous DNA in mammalian cells. *D.A.Spanakos* and *N.M.Wilkie* • Expression of exogenous DNA in *Xenopus* Oocytes. *A.Colman* • Transcription of eukaryotic genes in a whole-cell extract. *J.L.Manley* • Transcription of RNA in isolated nuclei. *W.F.Marzluff* and *R.C.C.Huang* • Transcription of chromatin. *R.S.Gilmour* • In vivo gene expression systems in prokaryotes. *N.G.Stoker*, *J.M.Pratt* and *I.B.Holland* • Coupled transcription-translation in prokaryotic cell-free systems. *J.M.Pratt* • Purification of eukaryotic messenger RNA. *M.J.Clemens* • Translation of eukaryotic messenger RNA in cell-free extracts. *M.J.Clemens* • Translation of eukaryotic messenger RNA in *Xenopus* Oocytes. *A.Colman*

Appendices: I Nucleic acid and polypeptide molecular weight markers. *S.Minter* and *P.Sealey* • II List of suppliers

May 1984; 360pp; 0 904147 52 5 (soft)
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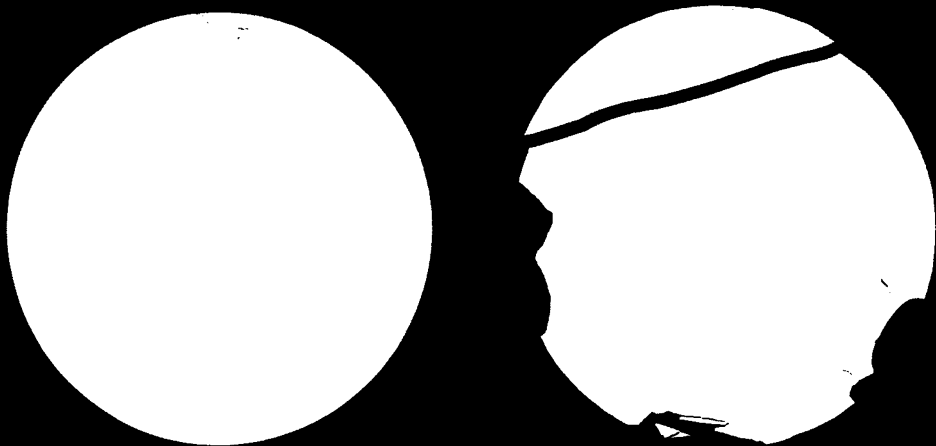
Appendices: I Nomogram and equation for computing relative centrifugal force. II Chemical resistance chart for tubes and zonal rotors. III Specifications of ultracentrifuge rotors. IV Equations relating the refractive index to the density of solutions. V Marker enzymes and chemical assays for the analysis of subcellular fractions. *J.Graham* and *T.C.Ford*. VI Names and addresses of suppliers of centrifuges and ancillary equipment. VII Glossary of terms.

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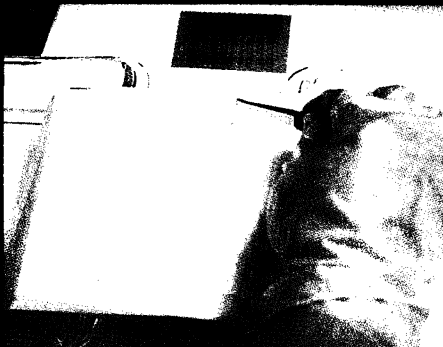
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NUCLEOTIDE SEQUENCES

1984

Parts 1 and 2

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Resulting from a unique international collaboration, **Nucleotide Sequences 1984** is the first definitive printed compendium of substantially all nucleic acid sequences reported between 1967 and late 1983. These sequences and associated annotations have been compiled from the published literature and direct submissions from the authors by the EMBL Sequence Library staff at the European Molecular Biology Laboratory (EMBL) and by the GenBank(TM)* staff at the Los Alamos National Laboratory and at Bolt, Beranek and Newman Inc.

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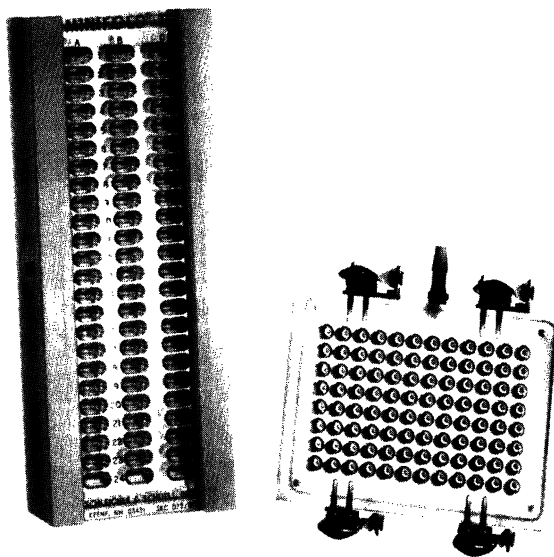
Section headings

Introductory information on organisation and use of the books
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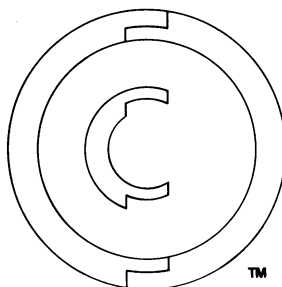
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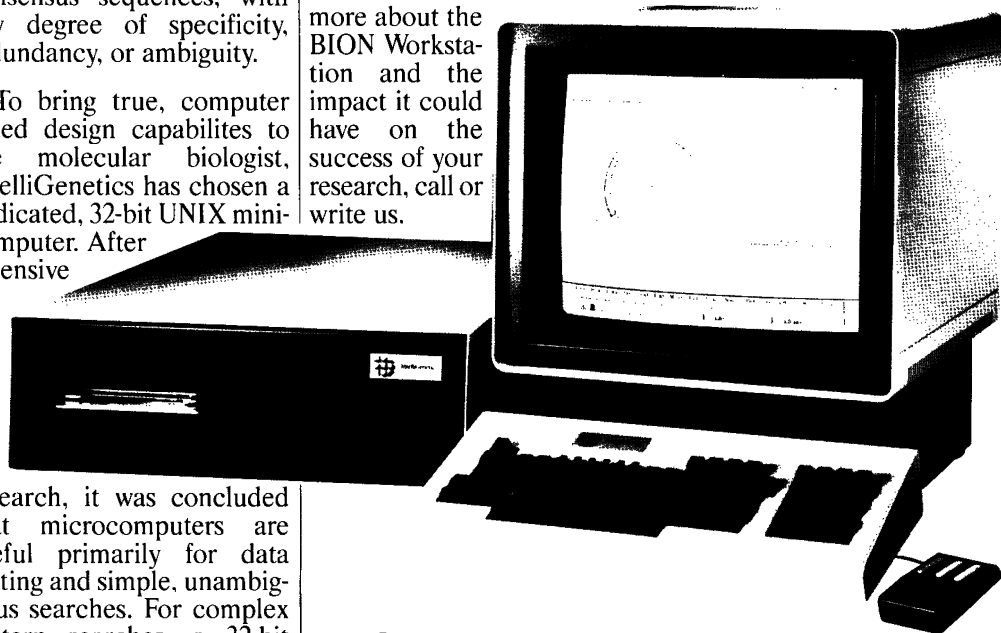
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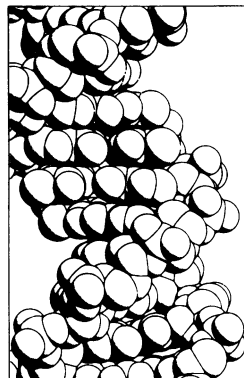


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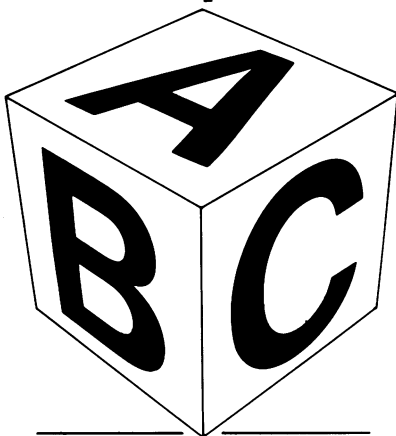
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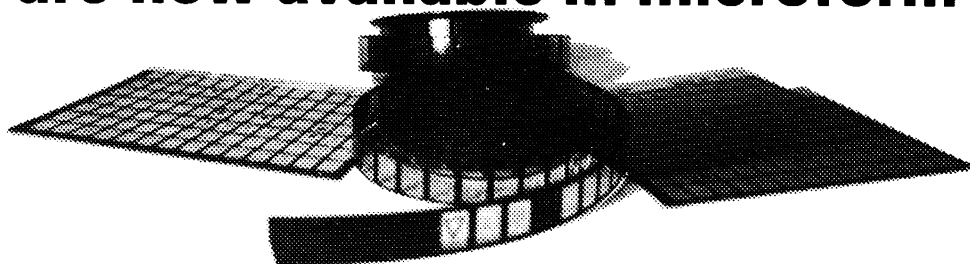
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