NATURE VOL. 325 5 FEBRUARY 1987

Both systems employ an aluminium platen that Haake says assures even heat distribution, eliminating the "smile" effect. The sequencers have a thermoregulated design, and can be set for high-speed, high-voltage runs or at lower voltages for overnight runs. The separating gel for the \$1,885 (US) 100 cm DNA sequncer is 95 cm in length, allowing over 200 nucleotides to be read at a single loading, and is compatible in size with the 22×100 cm HBI Transfilm for autoradiography. The \$1,595 (US) 45 cm sequencer's gels can be used with standard 35×43 cm X ray films.

In addition to its Retro-Tek AIDS virus kits and probes, Cellular Products will be showing its Cellkines line of human immune cell culture products in booth 30 (Reader Service No. 112). Cellular Products has a full line of growth factors, including human T-cell growth factor, human B-cell growth factor and human platelet-derived growth factor, which sell for \$47.50 to \$195 (US), depending upon

Molecular biology becoming more fashionable?

DR Ruth Kavenoff, a cell biologist studying chromosome structure at the University of California, San Diego, is bent on bringing the beauty of science to the general populace. Through her work with electron microscopy, she has imaged "sprung" E. coli DNA molecules, confirming the DNA supercoiling model set down by Worcel and Burgi'. Her technique employs an aqueous salt solution, instead of the usual formamide solution, and the result is a much clearer view of the DNA loops involved in the supercoil. The aesthetic appeal of the resulting spread molecule led her first to produce wall posters of the image to decorate the laboratories of friends and associates. From there, she went on to print her images on more popularized items, such as postcards and T-shirts, and her company, Designer

Genes, was born. Her range of products, that now includes labcoats, sweatshirts, and totebags, all come with an explanation of the image they bear, and a bit of background on DNA in general (Reader Service No. 116). Other images are currently in the pipeline, including micrographs of chloroplast DNA (GreenGenes), antibody mRNA and DNA (A Splice of Life), and flu virus DNA (The Usual Suspect). In this manner, Dr Kavenoff hopes to increase the level of knowledge of molecular biology held by the hoi polloi. It is her opinion that "people are reluctant to fund research they don't understand," and she seeks to improve this understanding. A variety of Designer-Genes products are now distributed by Carolina Biological Supply Company, Burlington, North Carolina, 27215. 1. Worcel, A. & Burgi, E. J. molec. Biol. 71, 127-147 (1972).

PRODUCT REVIEW -

size desired. For detecting the HTLV-1 core protein, p19, Cellular Products offers

anti-p19 monobody costing \$175 (US) for 100 tests. Human immune (gamma) inter-

feron is also available from Cellular Pro-

Seikagaku America, in booth 39, will be

enzyme which incorporates one nanomole

The PS 200 automated DNA synthesiz-

er will be dominating attention in the

Cruachem booth, number 40, but the

company representatives are also likely to

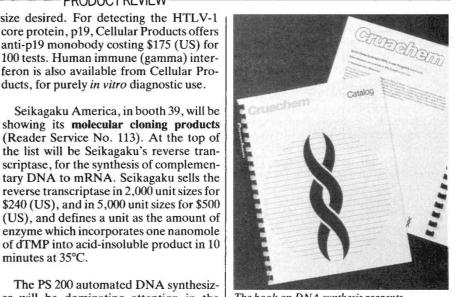
be showing off their new 1987 catalogue

minutes at 35°C.

ducts, for purely in vitro diagnostic use.



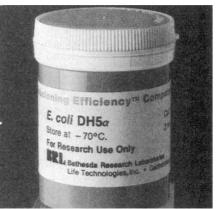
Dr Kavenoff seated by the source of her images, wearing one of her DesignerGenes shirts.



The book on DNA synthesis reagents. (Reader Service No. 114). The catalogue features solid phase synthesis (SPS) grade chemicals and reagents, including Cruachem's CE cyanoethylphosphoramidites for "easy on the nose" DNA synthesis. Cruachem's One Shot phosphotriester starter kit simplifies manual or semiautomated DNA synthesis by using singleuse packs containing enough material for 100 coupling reactions on a 1 micromolar scale. ColorTag monomers provide visual verification of sequence during synthesis, so unsatisfactory syntheses can be stopped

Made just for researchers performing routine subcloning, GIBCO/BRL in booths 34 and 35 offers Subcloning Efficiency competent cells (Reader Service

before costly reagents are wasted.



Increases the level of uptake of plasmid DNA. No. 115). GIBCO/BRL says use of its competent cells yields consistent numbers of greater than 1×10^6 transformants per microgram of monomer plasmid DNA, at less than one-eighth the price per reaction of other commercially available competent cells. The DH5 alpha recA1 marker ensures the stability of inserts, and its endA1 marker improves the quality of plasmid DNA prepared from mini-preps. GIBCO/BRL's competent cells cost \$37 (US) for a 2ml sample.