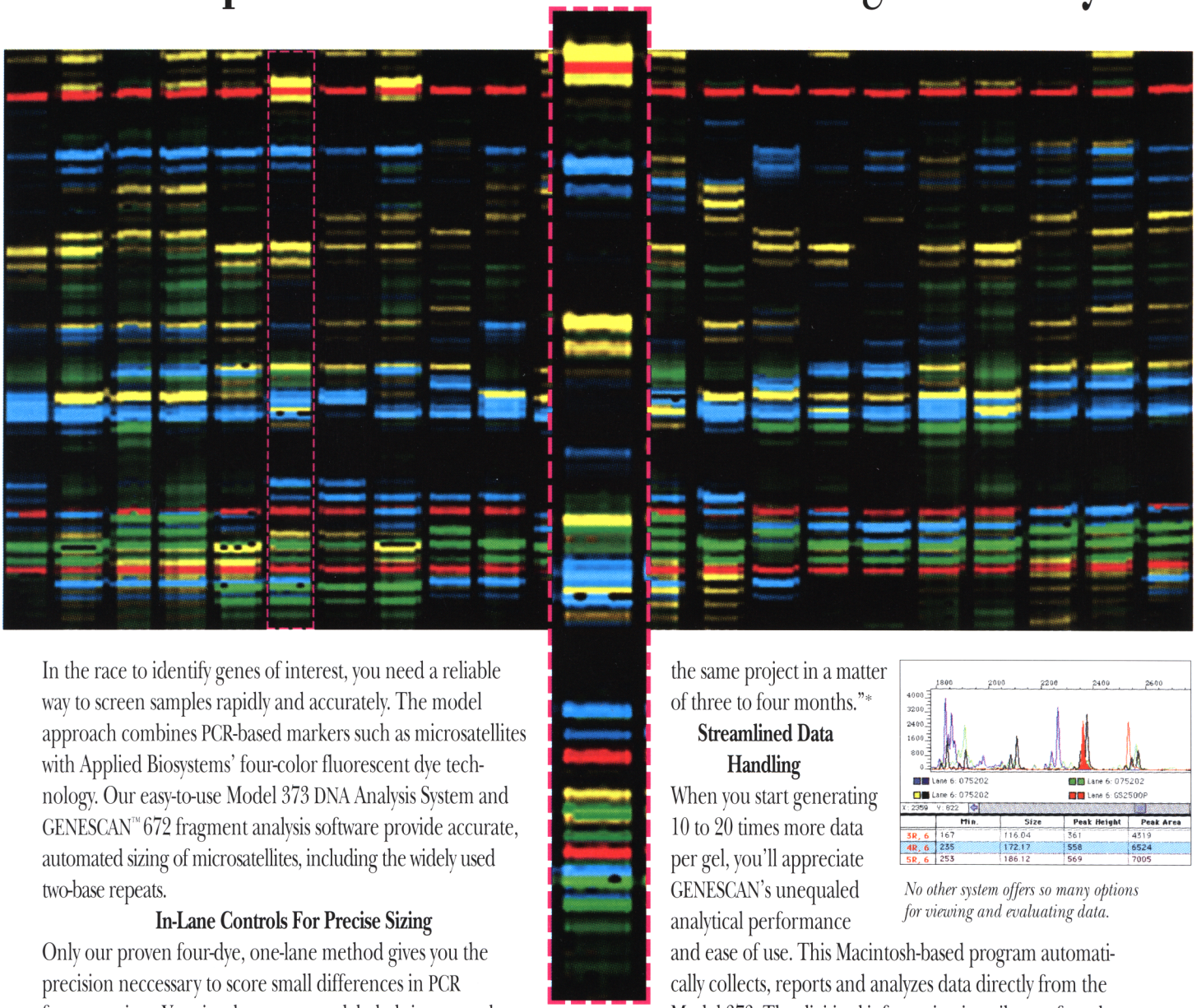
PCR Sizing

The Complete Solution For Automated Fragment Analysis



In the race to identify genes of interest, you need a reliable way to screen samples rapidly and accurately. The model approach combines PCR-based markers such as microsatellites with Applied Biosystems' four-color fluorescent dye technology. Our easy-to-use Model 373 DNA Analysis System and GENESCAN™ 672 fragment analysis software provide accurate, automated sizing of microsatellites, including the widely used two-base repeats.

In-Lane Controls For Precise Sizing

Only our proven four-dye, one-lane method gives you the precision neccessary to score small differences in PCR fragment sizes. You simply run our prelabeled size control in the same lanes with samples. Our GENESCAN software compares sample bands against this in-lane control to size PCR fragments precisely. This in-lane standard automatically controls for lane-to-lane and gel-to-gel variation.

High Throughput Accelerates Research

Our multicolor labeling technology also lets you combine samples to investigate many loci per lane. This unprecedented throughput can dramatically advance your research. According to one researcher, "A single project with at least 500 individuals would take years to analyze by radioactive methods, but with …the ability to multiplex, we can do the same project in a matter of three to four months."*

Streamlined Data Handling

When you start generating 10 to 20 times more data per gel, you'll appreciate GENESCAN's unequaled analytical performance and ease of use. This Macintosh-based program automatically collects, reports and analyzes data directly from the Model 373. The digitized information is easily transferred for further analysis.

No other system offers so many options for viewing and evaluating data.

Our versatile technology also brings unsurpassed precision to fragment quantitation and sequencing. At Applied Biosystems, we're committed to providing fundamental technologies to support a full spectrum of applications for genetic analysis–now and in the future.

To receive literature on the Model 373, GENESCAN, and linkage analysis applications, call Applied Biosystems at:
U.S. (800) 345-5224,
Canada (800) 668-6913.

Applied Biosystems
A Division of Perkin-Elmer Corporation

*Betsy Nanthakumar, Director, DNA Analysis Facility, Johns Hopkins University.

PCR

Contents

June, 1994
Volume 3, Number 6

RESEARCH

TECHNICAL TIPS

(continued)

Published by Cold Spring Harbor Laboratory Press.
Sponsored by The Perkin-Elmer Corporation.

Editorial Staff
Nadine Dumser, Technical Editor
Valerie Nicolette, Production Editor
Doris Lawrence, Secretary
Jim Suddaby, Design

Advertising
Nancy Kuhle