Automation of the Front End of DNA Sequencing
Lloyd M. Smith and **Richard A. Guilfoyle**
University of Wisconsin, Madison

High-Speed DNA Sequence Analysis by Matrix-Assisted Laser Desorption Mass Spectrometry
Lloyd M. Smith
University of Wisconsin, Madison

Analysis of Oligonucleotide Mixtures by Electrospray Ionization-Mass Spectrometry
Richard D. Smith
Pacific Northwest National Laboratory, Richland, Washington

High-Speed Sequencing of Single DNA Molecules in the Gas Phase by FTICR-MS
Richard D. Smith
Pacific Northwest National Laboratory, Richland, Washington

Characterization and Modification of DNA Polymerases for Use in DNA Sequencing
Stanley Tabor
Harvard University, Boston, Massachusetts

Modular Primers for DNA Sequencing
Levy Ulanovsky[1,2]
[1]Argonne National Laboratory, Argonne, Illinois
[2]Weizmann Institute of Science, Rehovot, Israel

Time-of-Flight Mass Spectroscopy of DNA for Rapid Sequence
Peter Williams
Arizona State University, Tempe, Arizona

Development of Instrumentation for DNA Sequencing at a Rate of 40 Million Bases Per Day
Edward S. Yeung
Iowa State University, Ames, Iowa

Mapping

Resolving Proteins Bound to Individual DNA Molecules
David Allison and **Bruce Warmack**
Oak Ridge National Laboratory, Oak Ridge, Tennessee

*Improved Cell Electrotransformation by Macromolecules
Alexandre S. Boitsov
St. Petersburg State Technical University, St. Petersburg, Russia

Overcoming Genome Mapping Bottlenecks
Charles R. Cantor
Boston University, Boston, Massachusetts

Preparation of PAC Libraries
Pieter J. de Jong
Roswell Park Cancer Institute, Buffalo, New York

Chromosomes by Third-Strand Binding
Jacques R. Fresco
Princeton University, Princeton, New Jersey

Chromosome Region-Specific Libraries for Human Genome Analysis
Fa-Ten Kao
Eleanor Roosevelt Institute for Cancer Research, Denver, Colorado

*Identification and Mapping of DNA-Binding Proteins Along Genomic DNA by DNA-Protein Crosslinking
V.L. Karpov
Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow, Russia

A PAC/BAC Data Resource for Sequencing Complex Regions of the Human Genome: A 2-Year Pilot Study
Julie R. Korenberg
Cedars Sinai Medical Center, Los Angeles, California

Mapping and Sequencing of the Human X Chromosome
D. L. Nelson
Baylor College of Medicine, Houston, Texas

*Sequence-Specific Proteins Binding to the Repetitive Sequences of High Eukaryotic Genome
Olga Podgornaya
Institute of Cytology, Russian Academy of Sciences, St. Petersburg, Russia

*Protein-Binding DNA Sequences
O.L. Polanovsky
Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow, Russia