

1996 Human Genome Research Projects

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Research abstracts of these projects appear in Part 2 of this report.

Sequencing

Advanced Detectors for Mass Spectrometry

W.H. Benner and J.M. Jaklevic
Lawrence Berkeley National Laboratory, Berkeley, California

Mass Spectrometer for Human Genome Sequencing

Chung-Hsuan Chen
Oak Ridge National Laboratory, Oak Ridge, Tennessee

Genomic Sequence Comparisons

George Church
Harvard Medical School, Boston, Massachusetts

A PAC/BAC End-Sequence Data Resource for Sequencing the Human Genome: A 2-Year Pilot Study

Pieter de Jong
Roswell Park Cancer Institute, Buffalo, New York

Multiple-Column Capillary Gel Electrophoresis

Norman Dovichi
University of Alberta, Edmonton, Canada

DNA Sequencing with Primer Libraries

John J. Dunn and F. William Studier
Brookhaven National Laboratory, Upton, New York

Rapid Preparation of DNA for Automated Sequencing

John J. Dunn and F. William Studier
Brookhaven National Laboratory, Upton, New York

A PAC/BAC End-Sequence Database for Human Genomic Sequencing

Glen A. Evans
University of Texas Southwestern Medical Center, Dallas, Texas

Automated DNA Sequencing by Parallel Primer Walking

Glen A. Evans
University of Texas Southwestern Medical Center, Dallas, Texas

***Parallel Triplex Formation as Possible Approach for Suppression of DNA-Viruses Reproduction**

V.L. Florentiev
Russian Academy of Sciences, Moscow, Russia

Advanced Automated Sequencing Technology: Fluorescent Detection for Multiplex DNA Sequencing

Raymond F. Gesteland
University of Utah, Salt Lake City, Utah

Resource for Molecular Cytogenetics

Joe Gray and Daniel Pinkel
University of California, San Francisco

DNA Sample Manipulation and Automation

Trevor Hawkins
Whitehead Institute and Massachusetts Institute of Technology, Cambridge, Massachusetts

Construction of a Genome-Wide Characterized Clone Resource for Genome Sequencing

Leroy Hood, Mark D. Adams,¹ and Melvin Simon²
University of Washington, Seattle
¹The Institute for Genomic Research, Rockville, Maryland
²California Institute of Technology, Pasadena, California

DNA Sequencing Using Capillary Electrophoresis

Barry L. Karger
Northeastern University, Boston, Massachusetts

Ultrasensitive Fluorescence Detection of DNA

Richard A. Mathies and Alexander N. Glazer
University of California, Berkeley

Joint Human Genome Program Between Argonne National Laboratory and the Engelhardt Institute of Molecular Biology

Andrei Mirzabekov
Argonne National Laboratory, Argonne, Illinois, and
Engelhardt Institute of Molecular Biology, Moscow, Russia

High-Throughput DNA Sequencing: Sample Sequencing (SASE) Analysis as a Framework for Identifying Genes and Complete Large-Scale Genomic Sequencing

Robert K. Moyzis
Los Alamos National Laboratory, Los Alamos, New Mexico

One-Step PCR Sequencing

Barbara Ramsay Shaw
Duke University, Durham, North Carolina

*Projects designated by an asterisk were funded through small emergency grants to Russian scientists following December 1992 site reviews by David Galas (formerly of OHER, renamed OBER in 1997), Raymond Gesteland (University of Utah), and Elbert Branscomb (LLNL).