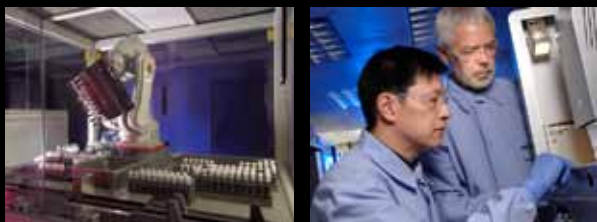




Institute for Clinical and
Experimental Pathology®



ARUP INSTITUTE FOR CLINICAL AND EXPERIMENTAL PATHOLOGY®

THE RESEARCH ARM OF ARUP LABORATORIES



January 2012



ARUP LABORATORIES

ARUP Laboratories is a national clinical and anatomic pathology reference laboratory and a nonprofit enterprise of the University of Utah and its Department of Pathology. ARUP offers in excess of 3,000 tests and test combinations, ranging from routine screening tests to esoteric molecular and genetic assays. Rather than competing with its clients for physician office business, ARUP chooses instead to support clients' existing test menus by offering complex and unique tests, with accompanying consultative support, to enhance their abilities to provide local and regional laboratory services. ARUP's clients include many of the nation's university teaching hospitals and children's hospitals, as well as multihospital groups, major commercial laboratories, group purchasing organizations, military and other government facilities, and major clinics. In addition, ARUP is a worldwide leader in innovative laboratory research and development, led by the efforts of the ARUP Institute for Clinical and Experimental Pathology.

THE ARUP INSTITUTE FOR CLINICAL AND EXPERIMENTAL PATHOLOGY®

Founded in 1996 by members of the Department of Pathology at the University of Utah School of Medicine, the ARUP Institute for Clinical and Experimental Pathology, which is the research arm of ARUP Laboratories, is at the forefront of innovative research and development, with a focus that represents the entire scope of lab medicine, including molecular diagnostics, drug monitoring, multianalyte immunoassays, and tumor markers.

The institute sponsors projects within four broad categories: creating new laboratory tests; improving current clinical laboratory tests; evaluating and critiquing tests, including alpha- and beta-site protocols; and conducting basic and clinical research projects. Research performed on human subjects is conducted under informed consent following the protocols approved by the University of Utah Institutional Review Board (IRB).*

By using the research expertise of university-based scientists, as well as the resources and acumen of ARUP institute staff, institute projects have been extremely effective in expanding the quantity, quality, efficiency, and sophistication of laboratory tests.

*The American Society for Clinical Pathology (ASCP) and the National Bioethics Advisory Commission concur that research involving anonymous or de-identified specimens is not considered human subject research. This practice is consistent with current statutory requirements (45 CFR (Code of Federal Regulations) 46) and assured by ARUP standard operating procedures for residual sample de-identification.



knowledge

ARUP has a professional staff of nearly 3,000 technical and administrative employees. ARUP's medical directors and consultants, all of whom hold MD and/or PhD degrees, are nationally and internationally recognized pathologists, subspecialty-qualified clinicians, and board-certified clinical scientists. Since 2000, ARUP researchers have published more than 1,300 peer-reviewed publications, as well as books and book chapters, a complete list of which can be viewed at www.aruplab.com/R&D.

With more than 50 technical sections, 50 medical directors, 75 scientists, and 100 employees, the ARUP Institute for Clinical and Experimental Pathology encompasses a wide range of interests, including molecular genetics, hematopathology, immunology, infectious diseases, and all aspects of chemistry.

Staff expertise includes:

- Autoimmune disorders
- Clinical toxicology
- Cytopathology
- Endocrinology
- Flow cytometry
- GC/LC mass spectrometry/tandem mass spectrometry

MISSION STATEMENT

The institute's mission is to be at the forefront of innovative RESEARCH and DEVELOPMENT in clinical laboratory medicine.

- Hematopathology
- Cellular immunology and cytokine analyses
- Human and biochemical genetics
- Immunohematology
- Immunology and microbial serology
- Infectious diseases
- Laboratory automation
- Mass spectrometry
- Molecular diagnostics
- Multianalyte detection technologies
- Nucleotide sequencing
- Pharmacogenomics
- Next-generation sequencing
- Tumor markers

The institute is an excellent source of information for ARUP clients, who may contact medical directors directly through ARUP Client Services or ARUP's website at www.aruplab.com/R&D.



results

Most university-based research is driven by investigator initiative, which encourages originality and innovation but may hinder the rapid translation of research findings into practical clinical applications. In contrast, the ARUP Institute for Clinical and Experimental Pathology strives for a smooth translation of basic research into applied science and clinical assays.

This focused approach and responsiveness have led to new assays in all areas of laboratory medicine. Novel assays have been developed for employing multianalyte technology to determine immune and inflammatory responses, as well as for vitamin and nutritional status, tumor markers, therapeutic drug monitoring, and autoimmune/allergy evaluation.

The institute has also facilitated the introduction of new instrumentation and approaches for analyzing genetic diseases and the metabolic and immune status of patients.

Institute research projects are directed by departmental faculty members in conjunction with institute research scientists. Research proposals and progress are formally reviewed biannually. This unique combination of investigator-initiated and goal-oriented research has proven to be extremely effective in bringing new tests to market and improving existing assays, with the end result of improved patient care.

www.aruplab.com

ARUP's website contains the up-to-date, searchable, Laboratory Test Directory as well as a list of tests by specialty, an overview of ARUP's suite of utilization management services, education and lab-expertise sections, and various other relevant information for ARUP clients.

ARUP Consult[®], The Physician's Guide to Laboratory Test Selection and Interpretation, can be found at www.arupconsult.com. The site, also available in mobile format or as an app in the App Store, contains nearly 2,000 searchable lab tests categorized into disease-related topics and more than 50 algorithms to support clinical decision-making. Consult content is updated six times each year, and is available at no obligation or fee.





Institute personnel, University of Utah Department of Pathology faculty, and distinguished judges after the 11th annual ARUP Institute for Clinical and Experimental Pathology Research Colloquium.





Institute for Clinical and
Experimental Pathology®

A NONPROFIT ENTERPRISE OF THE UNIVERSITY OF
UTAH AND ITS DEPARTMENT OF PATHOLOGY

www.aruplab.com/R&D | www.arupconsult.com

ARUP LABORATORIES
500 Chipeta Way
Salt Lake City, UT 84108-1221
Phone: (800) 522-2787
Fax: (801) 583-2712