

I AM A CELL, THE BASIC UNIT OF LIFE.
CLINICAL RESEARCHERS WANT TO

EXPLORE

MY COMPLEX PROCESSES. I CAN
HELP THEM FIGHT DISEASE AND
DEVELOP MORE EFFECTIVE THERAPIES.

THAT'S WHY I'M BEGINNING MY JOURNEY WITH
EXPRESSION ANALYSIS.

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We are a client-focused CRO that leverages our expertise in experimental design, multiple sequencing platforms and in-house bioinformaticians to provide candidates, not just data.



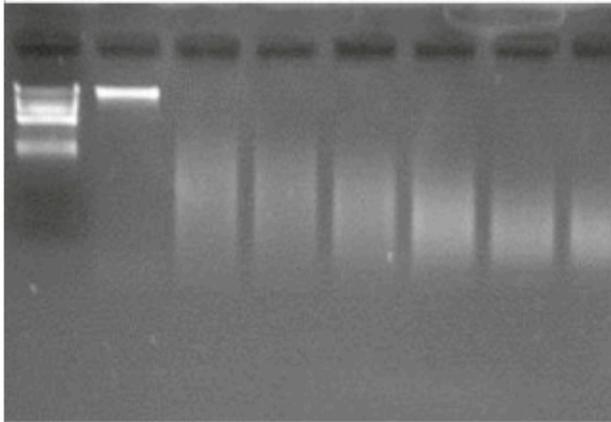
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Check quantity AND quality of gDNA with one instrument.

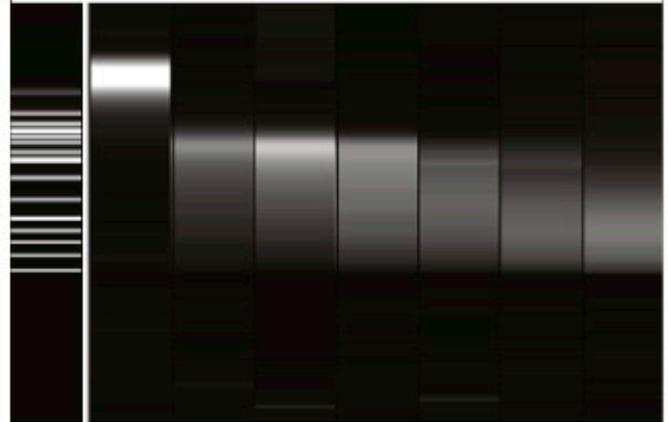
The Fragment Analyzer™ Automated CE System

The Past



Human genomic DNA. Traditional manual agarose slab gel shows intact gDNA in the second lane. Gel images in remaining lanes show varying levels of gDNA degradation.

The Future



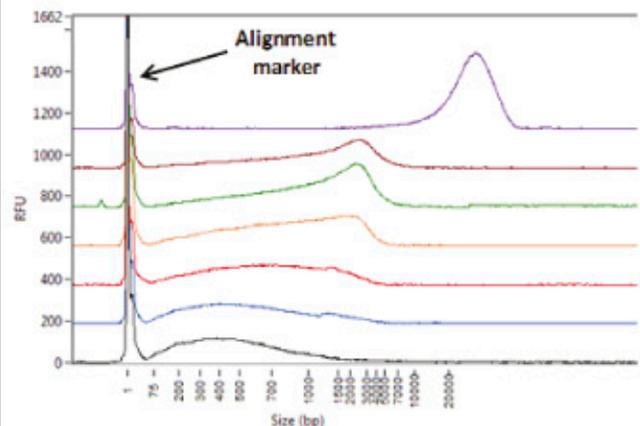
Same sample of human gDNA, identical results.

BELOW: Raw data is captured by automated capillary electrophoresis system, as seen in electropherogram overlay. >20,000 bp peak indicates intact gDNA on the upper-most trace.

ABOVE: Data can then be processed and presented in a variety of ways, such as this digital gel image.

Fragment Analyzer™ Benefits

- ◆ **No more pouring gels.** Automated simultaneous analysis of 12 or 96 samples.
- ◆ **Higher sensitivity than agarose gels.** Use small amounts of gDNA samples. (0.1 ng)
- ◆ **Ultra fast lower marker** (set to 1 bp) migrates faster than degraded gDNA for superior quality and quantity assessment.
- ◆ **Good sizing capability** to differentiate degraded, partially degraded or intact gDNA.
- ◆ **See RNA contamination** in gDNA extractions.



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Curi#sity is the cause of Creati#n

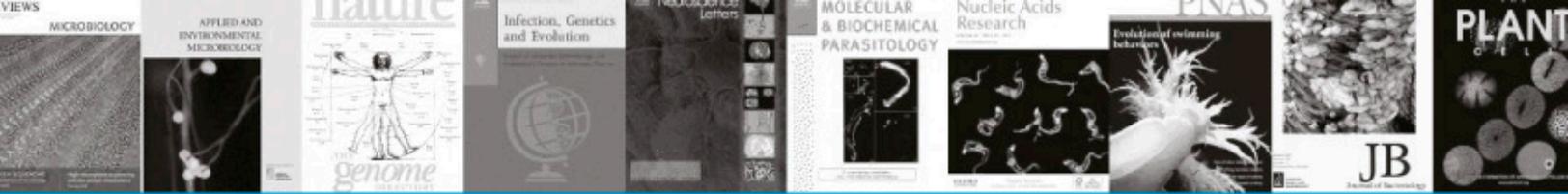
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JCVI success is built on the philosophy of conducting science in new interdisciplinary ways, using innovative tools, and with the best scientists. We are seeking qualified applicants for positions at all levels at our La Jolla, CA and Rockville, MD facilities, particularly in the following research focus areas:

- Human and Stem Cell Genomics**
 The ability to decipher human genomes completely and accurately is transforming our understanding of normal somatic variation, cancer mutation, and genome stability during cellular reprogramming. This is opening new avenues to understand the effect of genome variation in health and disease.
- Synthetic Genomics**
 JCVI has pioneered the development of genome-scale DNA synthesis and genome-scale engineering. These approaches are being applied to improving our understanding of basic cellular functions, to address genetically intractable organisms, and to develop new vaccine and therapeutic strategies.
- Host-Microbe Interactions**
 The results of interrogating the human microbiome highlights how little we understand about the ways that microbes living in and on us contribute to our health and well-being. The next phase of these investigations will focus heavily on the interactions with the host.

Successful candidates are expected to conduct innovative, independent research, collaborate with our interdisciplinary, highly collegial group of scientists within JCVI, and complement existing strengths within the Institute. Candidates must have a Ph.D. or M.D., a minimum of three years of Post-Doctoral research training, and be able to demonstrate the ability to establish and maintain a vigorous independent, externally funded research program. The level of appointment will be commensurate with experience. JCVI offers an excellent working environment and a competitive benefits package. Interested applicants should apply directly in our career center by submitting their CV and a cover letter which includes a description of research interests and contact information for three references. JCVI's Career Center is located on our web site at www.jcvi.org. Equal Opportunity Employer M/F/D/V

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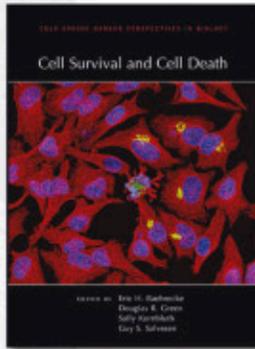
TOP 10 REASONS YOU SHOULD ATTEND

- 1 Submitting an abstract is free:** Submit an abstract of your latest findings to be presented as a poster or platform session. Share your work with thousands of colleagues from around the globe!
(Deadline: June 4)
- 2 It's the largest human genetics meeting in the world!** More than 6,500 geneticists from 60+ countries will attend.
- 3 Choose from thousands of presentations and posters** organized by topic areas and tracks across multiple disciplines.
- 4 Valuable networking opportunities:** Interact with leading scientists, network to build your career, and collaborate with peers from diverse backgrounds—from basic research to clinical care!
- 5 Over 200 exhibiting companies** will help you learn about the latest advances in cutting-edge genetics technology, products, and services.
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- 8 Improve your research and/or clinical work:** With over 500 platform and invited presentations and a dozen specialty workshops, you will increase your expertise and skills.
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- 10 It's in Boston!** Who wouldn't want to visit Boston in the fall and get to know one of the most vibrant genetics communities on the East coast? You can also walk the Freedom Trail, visit the site of the Boston Tea Party, shop at Faneuil Hall Market Place, or dine at some of the oldest restaurants in the US.

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CELL SURVIVAL AND CELL DEATH



Edited by Eric H. Baehrecke, *University of Massachusetts*, Douglas R. Green, *St. Jude Children's Research Hospital*, Sally Kornbluth, *Duke University* and Guy S. Salvesen, *Sanford-Burnham Medical Research Institute*

Billions of cells die every day in the human body. This is required for normal development and physiology, as well as the elimination of errant cells. Apoptosis and other cell death mechanisms are complex and carefully controlled. If cell death does not occur when it should, cancer and other diseases may develop.

Written and edited by experts in the field, this collection from *Cold Spring Harbor Perspectives in Biology* covers all aspects of apoptosis, autophagy, and necrosis. Contributors describe in detail the molecular mechanisms of cell death signaling, including death receptor-ligand systems, BCL-2 family proteins, mitochondrial permeabilization, the endocytic pathway, caspases, and signals that trigger the clearance of dying cells. Survival mechanisms and proteins such as IAPs that antagonize cell death are also described.

This volume includes discussion of tumor suppression, the altered metabolism of cancer cells, and the development of therapeutic drugs. It is an essential reference for cell and developmental biologists, cancer biologists, and all who want to understand when and how cell death is required for life.

2013, 380 pp., illus. (59 4C, 25 B&W), index

Hardcover \$135

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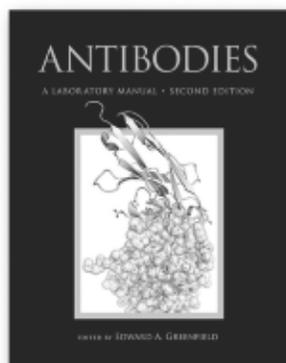
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ANTIBODIES

A Laboratory Manual, Second edition



Edited by Edward A. Greenfield, *Dana-Farber Cancer Institute*

This second edition of the now-classic lab manual *Antibodies*, by Harlow and Lane, has been revised, extended, and updated by Edward Greenfield of the Dana-Farber Cancer Center, with contributions from other leaders in the field. This manual continues to be an essential resource for molecular biology, immunology, and cell culture labs on all matters relating to antibodies. The chapters on hybridomas and monoclonal antibodies have been recast with extensive new information and there are additional chapters on characterizing antibodies, antibody engineering, and flow cytometry. As in the original book, the emphasis in this second edition is on providing clear and authoritative protocols with sufficient background information and troubleshooting advice for the novice as well as the experienced investigator.

Due September 2013, 750 pp. (approx.), illus., appendices, index

Hardcover \$260

Paperback \$175

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