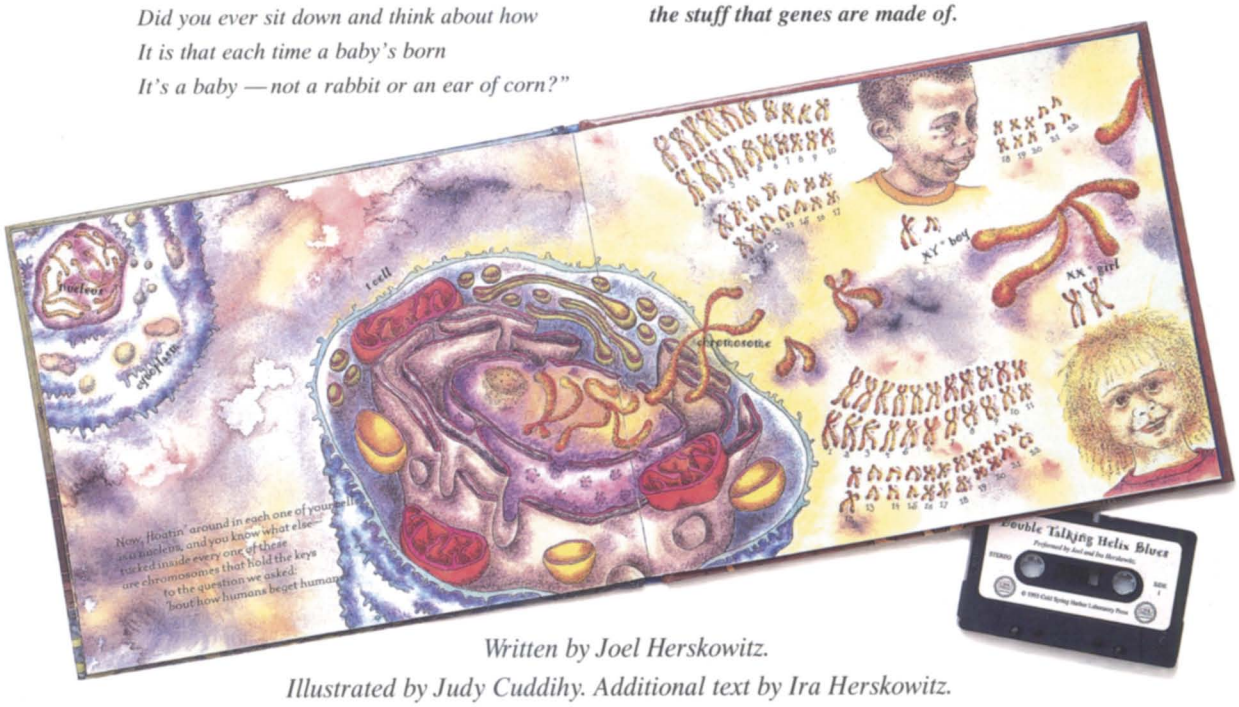
Double Talking Helix Blues

". . . the point of this story, I'll tell you right now.
Did you ever sit down and think about how
It is that each time a baby's born
It's a baby — not a rabbit or an ear of corn?"

The answer is in DNA —
the stuff that genes are made of.



Written by Joel Herskowitz.
Illustrated by Judy Cuddihy. Additional text by Ira Herskowitz.

1993, Cloth (plus 12-minute audio cassette), ISBN 0-87969-431-9: $20

This delightful tape-book package is a unique way of learning about DNA and genes and how they work.

On tape, hear identical twin brothers Joel and Ira Herskowitz each perform the *Double Talking Helix Blues*. Same song, same genes, different styles.

In the book, read through the lyrics and enjoy Judy Cuddihy's beautiful illustrations. Chromosomes and cells really *do* look like this, just a bit less colorful.

And on the back pages, be entertained and intrigued by a guide to heredity that makes all the details clear.

The *Double Talking Helix Blues* is interesting and fun for young people (8 and up) and adults who are curious about how they and their relatives became the unique individuals they are.

About the authors and illustrator:

Joel Herskowitz lives in Framingham, Massachusetts where he practices pediatric neurology. A graduate of Princeton University (as a music major), he is on the staff of New England Medical Center Hospitals in Boston. The "*Double Talking Helix Blues*" was originally written for his father, geneticist Irwin H. Herskowitz, who is Professor Emeritus of Biology at Hunter College in the City University of New York.

Ira Herskowitz, Joel's identical twin brother (and 7 minutes older), is professor and chairman of the Department of Biochemistry and Biophysics at the University of California, San Francisco. He is a member of the National Academy of Sciences and has been recognized for his scientific contributions to molecular genetics by a MacArthur Foundation Fellowship and the Genetics Society of America Award. He has performed the "*Double Talking Helix Blues*" for students and at lectures throughout the country.

Judy Cuddihy is an editor with Cold Spring Harbor Laboratory Press. She graduated from Bucknell University with a degree in biology and has studied at the Parsons School of Design in New York City.

Cold Spring Harbor Laboratory Press

Double Talking Helix Blues

Three easy ways to order!

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Resources for Genome Research

New Radiation Hybrid Panel Available

Radiation hybrid (RH) mapping is a somatic cell hybrid technique that was developed to construct high-resolution, contiguous maps of mammalian chromosomes. RH mapping provides a method for ordering DNA markers spanning millions of basepairs of DNA at a resolution not easily obtained by other mapping methods.

Some of the advantages of RH mapping are (1) distance estimated by this method is directly proportional to physical distance, (2) nonpolymorphic DNA markers, that can not be used for meiotic mapping, can be used for this method, and (3) a high resolution map that is not easily made by other methods can be obtained.

Research Genetics is pleased to announce the release of a second Radiation Hybrid Mapping Panel. This panel of 93 RH clones of the whole human genome is a subset of the 199 clone panel developed by a collaboration between the labs of Peter Goodfellow and Jean Weissenbach and has been adopted by the European Consortium on Radiation Hybrid Mapping. The panel of radiation hybrids can be used for ordering markers in the region of interest as well as establishing the distance between these markers.

For those investigators interested in performing the mapping in their own labs, we offer purified DNA from each of the 93 cell lines plus two controls. Software for analysis of results is available free of charge from Dr. Michael Boehnke, University of Michigan (Boehnke@umich.edu).

Catalog #			
	RH02.02	**2 µg of each hybrid**	**$ 450.00**
	RH02.05	**5 µg of each hybrid**	**$ 800.00**
	RH02.50	**50 µg of each hybrid**	**$4800.00**

In addition, our original Radiation Hybrid Panel created by David Cox at the Stanford Human Genome Mapping Center is also available. This panel, which contains 83 clones plus two controls, offers a higher resolution, but individual markers need to be within 2,000kb of one another for best results.

RH01.02	**2 µg of each hybrid**	**$ 450.00**
RH01.05	**5 µg of each hybrid**	**$ 800.00**
RH01.50	**50 µg of each hybrid**	**$4800.00**

As a service, we will order all markers in a region and establish the distance between these markers. The markers do not need to be highly polymorphic, in fact, simple STS markers can be ordered and spaced with equal accuracy.

RH01.S1	**Fine Mapping Service (Cox Panel)**	**$ 200.00/marker**
RH02.S1	**Fine Mapping Service (European Panel)**	**$ 200.00/marker**

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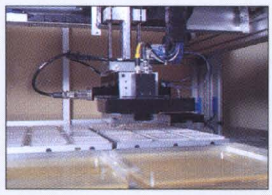
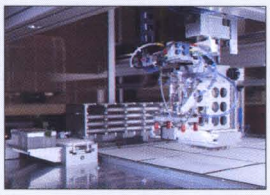
CUSTOM
Picking and Spotting



Custom Picking
Your library will be plated and picked into 96-well or 384-well microtiter plates. Gridded libraries are shipped complete with documentation, and each plate is numbered and bar coded. Blue-white selections may also be performed. A typical library of 50,000 clones will need only two weeks for turnaround. This service is 7 cents per colony with a $300 set-up charge

Spotting Service
After your library has been picked, high density membrane arrays suitable for screening by hybridization may be produced. A variety of high density spotting patterns and arrays are available on a 22cm x 22cm nylon membrane to suit your needs. Please contact Research Genetics for more details on either of these new services.



Genome Wide
Radiation Hybrid Mapping Panel
Now Available

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The BACs are Ready!

Research Genetics is pleased to announce that DNA pools for both the mouse and human BAC libraries are now available to researchers. BAC clones are capable of harboring inserts as large as 300Kb. (Shizuya, H. et al (1992) *Proc. Natl. Acad. Sci., USA 89* 8794-8797.) BAC libraries are useful for the construction of genetic maps and for locating clones containing genes of interest for subcloning.

The source of the mouse genomic DNA is an embryonic stem cell line from the mouse strain 129SV, and the source of the human DNA is the 978SK stem cell line. The host is DH10B/r and the vector is pBeloBAC11. Average insert size for each library is 130Kb. DNA pools for the human BAC library were made from clones contained in 192 384-well plates, and the mouse library from clones in 384 384-well plates.

Human		
Catalog #	**Description**	**Price**
96011	DNA Pools	$945
96012	Individual BAC Clones	$ 24
96013	Single Library Plate	$ 75
96041	Custom Screening	$790
96055	High Density Colony Membranes	$500/set
96056	384 Colony Membrane	$ 75

Mouse		
Catalog #	**Description**	**Price**
96021	DNA Pools	$945
96022	Individual BAC Clones	$ 24
96023	Single Library Plate	$ 75
96040	Custom Screening	$790
96050	High Density Colony Membranes	$945/set
96051	384 Colony Membrane	$ 75

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To support this new center, we have produced over 1,400 different dye-labeled microsatellite markers for use on the Applied Biosystems Model 373 Sequencer. A genome wide screening set, made up of a subset of these markers, is currently being tested. Even finer mapping can be performed using isotopically labeled markers from our selection of over 4,000 human microsatellite markers or custom markers may be developed.

Prices range from $2.50 to $3.50 per genotype depending on the project. There is a setup fee of $10 per DNA sample to cover quantitating, aliquoting, initial testing and archiving.

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CONGRATULATIONS GENOME RESEARCH ON THIS PREMIER ISSUE

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