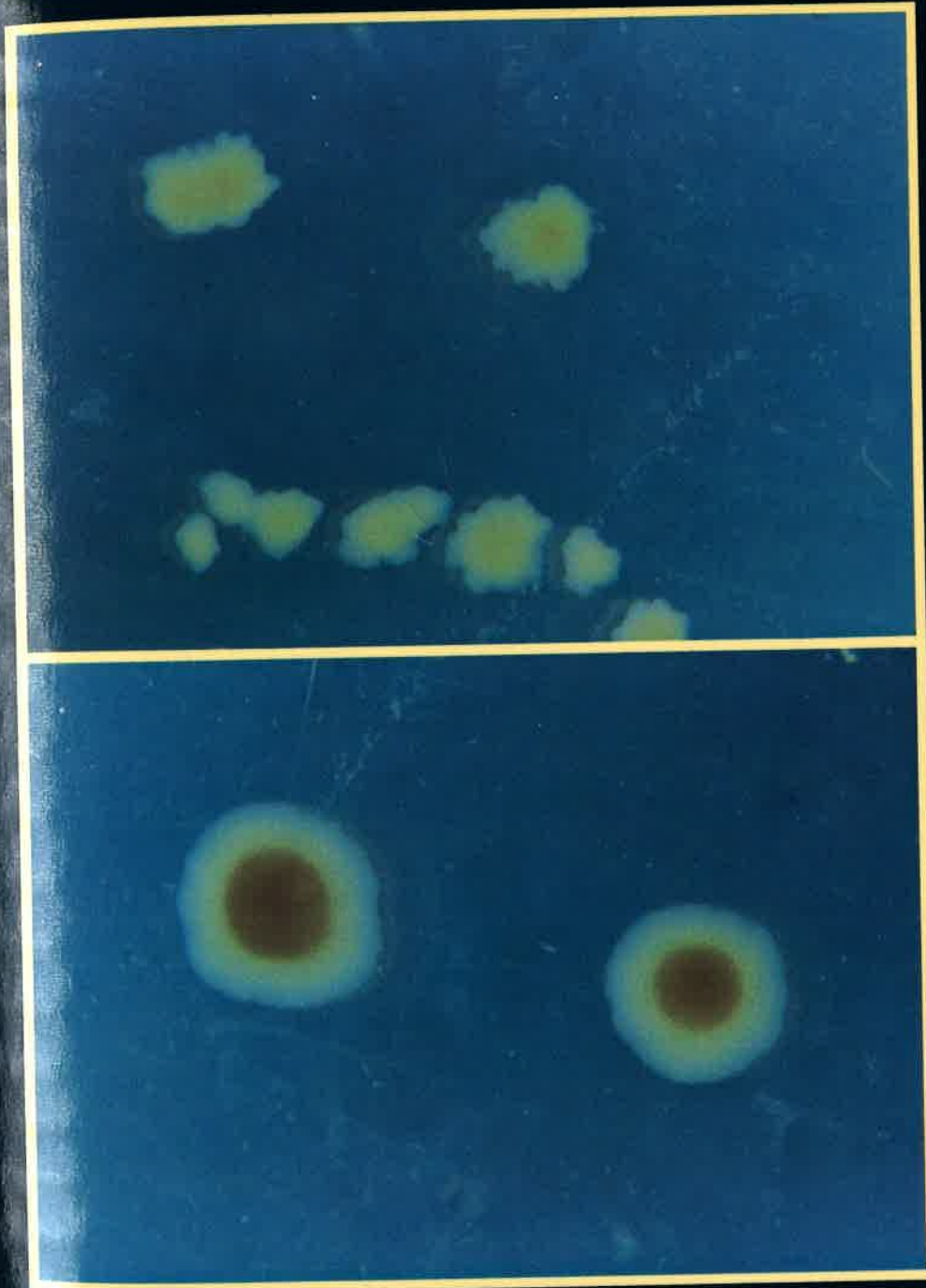
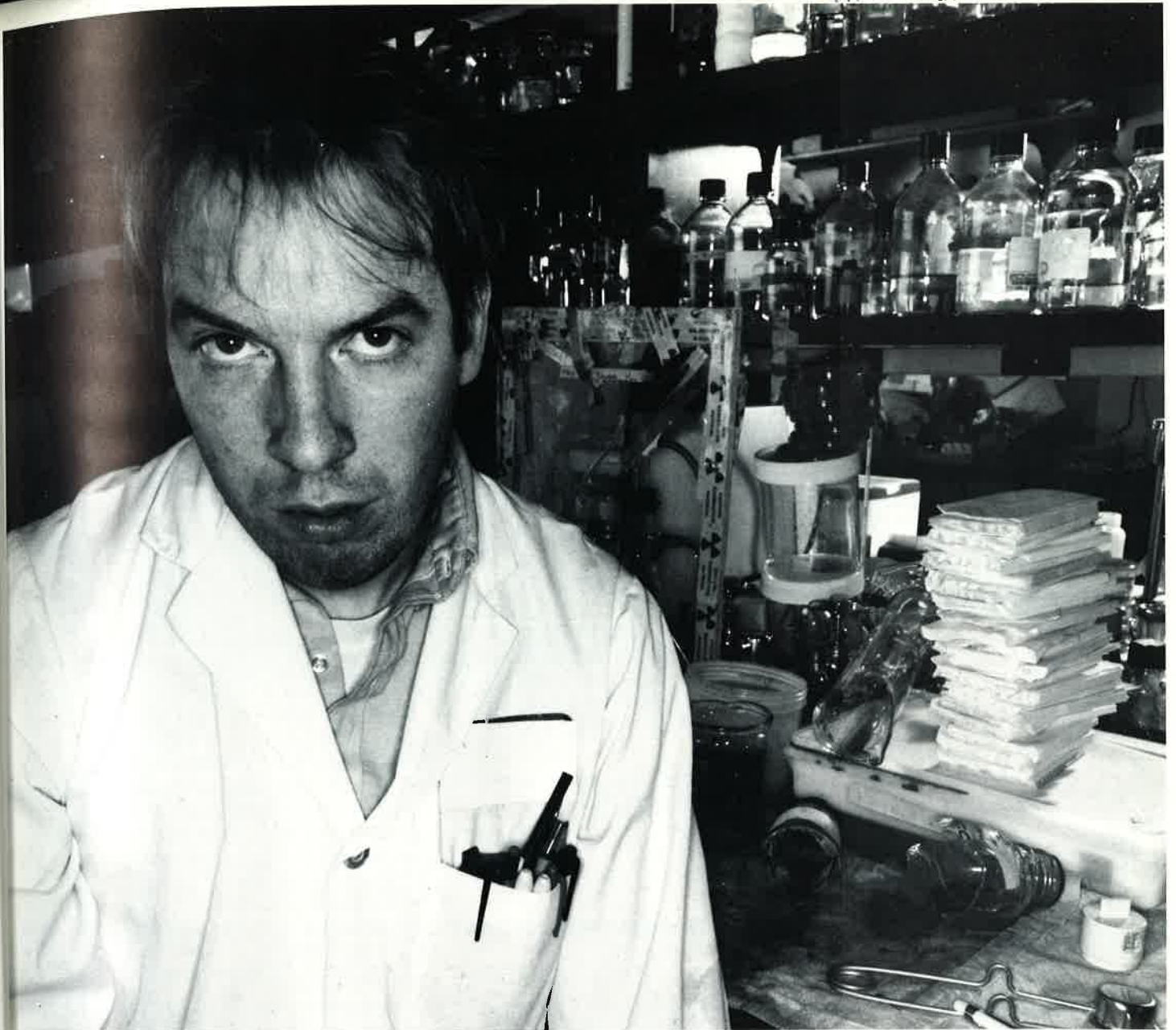


# Cell

Volume 40 Number 3

March 1985





## Cell makes science easier



One sure way to save you from a tired mind, tired eyes, and from becoming tired of trying, is to subscribe to Cell.

A full year of Cell has everything you need in one concise journal: the most influential advances in your area of biology, published rapidly, month after month, 13 times a year.

Cell's breakthrough research articles, reviews, and minireviews will help you make sense out of science. Remember, every research article in Cell gives you the whole

story, including a comprehensive methods section.

**And what's more, a full year of Cell for 1985 (over 4000 pages) is only \$90. That's 60% off our regular rate and is far less costly than most other journals in the field.**

So why not begin your subscription to Cell today?

After all, it's easier to learn science from Cell than from your mistakes.

# Cell

**DOCKET  
ALARM**

Find authenticated court documents without watermarks at [docketalarm.com](http://docketalarm.com).

Sen

**Editor**

Benjamin Lewin

**European Editor**

Peter W. J. Rigby

**Reviews Editor**

Paula A. Kiberstis

**Senior Staff Editor**

Genevieve MacLellan

**Staff Editor**

Michelle Hoffman

**Editorial Assistant**

Elizabeth Salvucci

**Advertising Manager**

BethAnn Rosner

**Associate Editors**

Sidney Altman

Michael Ashburner

Richard Axel

Piet Borst

James Broach

Jeremy Brookes

George Brownlee

Nicholas Cozzarelli

Igor Dawid

Gary Felsenfeld

Werner Franke

John Glenney

Joe Goldstein

Thomas Graf

Tony Hunter

Richard Hynes

George Khoury

Marc Kirschner

Jan Klein

Ron Laskey

Peter Lawrence

Elias Lazarides

Nicole Le Douarin

Anthony Mahowald

Tom Maniatis

Howard Nash

Kim Nasmyth

Mary Osborn

William Paul

Robert Perry

Charles Radding

Martin Raff

James Rothman

Gerald Rubin

Joe Sambrook

Walter Schaffner

Robert Schimke

Phillip Sharp

David Sherratt

Frank Solomon

George Stark

Peter Starlinger

Joan Steitz

George Vande Woude

Harold Varmus

Harold Weintraub

Robin Weiss

Irving Weissman

Charles Weissmann

William Wood

**Editorial Office**

Cell

292 Main Street

Cambridge, Massachusetts 02142

USA

617-253-2890

Telex 314765

**European Office**

Cancer Research Campaign

Eukaryotic Molecular Genetics Group

Department of Biochemistry

Imperial College of Science

and Technology

London SW7 2AZ, England

01-584-9913

**Cell** is published monthly from January to November and twice monthly in December by The MIT Press, Cambridge, Massachusetts, and London, England. Subscriptions are available by the calendar year. The order rate direct from the publisher is \$225 (USA and Canada) or \$245 (elsewhere) for 1985 (volumes 40-43). Back issue rates for 1982-1984 are available on request. Subscription correspondence should be addressed to: The MIT Press Journals Department, 28 Carleton Street, Cambridge, Massachusetts 02142 (617-253-2889).

A charge of \$35 per page is made for publication. Inability to pay will not influence decisions on acceptance, and authors unable to meet this charge should make the reason known upon publication. Copyright © 1985 by the Massachusetts Institute of Technology. Second class postage paid at Boston, Massachusetts, and additional mailing offices. Postmaster: send address changes to Cell (ISSN 0092-8674), 28 Carleton Street, Cambridge, Massachusetts 02142.



irified  
15 µg)  
900  
1,200  
1,500  
nquire

lack of a  
nucleotide  
g.

# Cell

## Commentary

**Wider Sharing of Materials and Methods** N. R. Cozzarelli 475-476

## Minireviews

**Molecular Organization of the AIDS Retrovirus** A. B. Rabson and M. A. Martin 477-480

**Retroviruses and Retrotransposons: The Role of Reverse Transcription in Shaping the Eukaryotic Genome** D. Baltimore 481-482

**Apurinic Sites as Mutagenic Intermediates** L. A. Loeb 483-484

**Altering Gene Expression with 5-Azacytidine** P. A. Jones 485-486

## Book Reviews

**How Viruses Work** M. S. Hirsch 487-488

**More on Hormones and Genes** M. Beato 488-489

**A Diversity of Monoclonal Antibodies** C. J. Barnstable 489-490

**Books Received** 490

## Articles

**Ty Elements Transpose through an RNA Intermediate** J. D. Boeke, D. J. Garfinkel, C. A. Styles, and G. R. Fink 491-500

**Isolation and Sequence of a cDNA Encoding the Major Structural Protein of Peripheral Myelin** G. Lemke and R. Axel 501-508

**Muscle-Specific Expression of a Gene Affecting Acetylcholinesterase in the Nematode *Caenorhabditis elegans*** R. K. Herman and C. K. Kari 509-514

**Insertion Mutagenesis to Increase Secondary Structure within the 5' Noncoding Region of a Eukaryotic mRNA Reduces Translational Efficiency** J. Pelletier and N. Sonenberg 515-526

**Control of ColE1 Plasmid Replication: Initial Interaction of RNA I and the Primer Transcript Is Reversible** J. Tomizawa 527-535

**Rous Sarcoma Virus Encodes a Transcriptional Activator** S. Broome and W. Gilbert 537-546

**Monoclonal Antibodies NORM-1 and NORM-2 Induce More Normal Behavior of Tumor Cells In Vitro and Reduce Tumor Growth In Vivo** H. P. Vollmers, B. A. Imhof, I. Wieland, A. Hiesel, and W. Birchmeier 547-557

(continued)

atalogue  
uch we  
ay for  
ompany.  
in  
gy  
acia



<b>Organelle, Bead, and Microtubule Translocations Promoted by Soluble Factors from the Squid Giant Axon</b>	R. D. Vale, B. J. Schnapp, T. S. Reese, and M. P. Sheetz	559-569
<b>Rapid Changes in Specificity within Single Clones of Cytolytic Effector Cells</b>	J. Reimann and R. G. Miller	571-581
<b>Stimulation of the T3-T Cell Receptor Complex Induces a Membrane-Potential-Sensitive Calcium Influx</b>	H. C. Oettgen, C. Terhorst, L. C. Cantley, and P. M. Rosoff	583-590
<b>The T Cell Differentiation Antigen Leu-2/T8 Is Homologous to Immunoglobulin and T Cell Receptor Variable Regions</b>	V. P. Sukhatme, K. C. Sizer, A. C. Vollmer, T. Hunkapiller, and J. R. Parnes	591-597
<b>The Drosophila EGF Receptor Gene Homolog: Conservation of Both Hormone Binding and Kinase Domains</b>	E. Livneh, L. Glazer, D. Segal, J. Schlessinger, and B.-Z. Shilo	599-607
<b>Protein Phosphorylation at Tyrosine Is Induced by the <i>v-erbB</i> Gene Product In Vivo and In Vitro</b>	T. Gilmore, J. E. DeClue, and G. S. Martin	609-618
<b>Antibodies against a Synthetic Peptide as a Probe for the Kinase Activity of the Avian EGF Receptor and <i>v-erbB</i> Protein</b>	R. M. Kris, I. Lax, W. Gullick, M. D. Waterfield, A. Ullrich, M. Fridkin, and J. Schlessinger	619-625
<b>Influenza Virus M<sub>2</sub> Protein Is an Integral Membrane Protein Expressed on the Infected-Cell Surface</b>	R. A. Lamb, S. L. Zebedee, and C. D. Richardson	627-633
<b>Vesicles and Cisternae in the <i>Trans</i> Golgi Apparatus of Human Fibroblasts Are Acidic Compartments</b>	R. G. W. Anderson and R. K. Pathak	635-643
<b>Requirement for Metalloendoprotease in Exocytosis: Evidence in Mast Cells and Adrenal Chromaffin Cells</b>	D. I. Mundy and W. J. Strittmatter	645-656
<b>The Hierarchy of Requirements for an Elevated Intracellular pH during Early Development of Sea Urchin Embryos</b>	F. Dubé, T. Schmidt, C. H. Johnson, and D. Epel	657-666
<b>Identification of the Sequence Responsible for the Nuclear Accumulation of the Influenza Virus Nucleoprotein in <i>Xenopus</i> Oocytes</b>	J. Davey, N. J. Dimmock, and A. Colman	667-675
<b>Enzymatic Cross-Linking of Involucrin and Other Proteins by Keratinocyte Particulates In Vitro</b>	M. Simon and H. Green	677-683
<b>Keratinocyte-Specific Transglutaminase of Cultured Human Epidermal Cells: Relation to Cross-Linked Envelope Formation and Terminal Differentiation</b>	S. M. Thacher and R. H. Rice	685-695
<b>Monoclonal Antibody to a Membrane Glycoprotein Inhibits the Acrosome Reaction and Associated Ca<sup>2+</sup> and H<sup>+</sup> Fluxes of Sea Urchin Sperm</b>	J. S. Trimmer, I. S. Trowbridge, and V. D. Vacquier	697-703

(continued)

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.