

Annual Reviews: Un Recurso Esencial

Presentado por Ana Paula Hesse
Systems Link

*“Podremos sobrellevar la **explosión de información**, a largo plazo, sólo si algunos científicos están preparados para comprometerse consigo mismos a la labor de sentarse, revisar, y sintetizar la información; en otras palabras, manejar la información con sofisticación y significado, y no como una labor meramente mecánica.”*

- Ésta frase es de un reporte titulado, *“Science, Government and Information: The Responsibilities of the Technical Community and the Government in the Transfer of Information.”* U.S. President’s Scientific Advisory Committee

¡Sobrecarga de Información!

Los académicos de hoy en día necesitan estar enterados de los nuevos descubrimientos, sin embargo, hay simplemente demasiada información para asimilar.

Es común para los investigadores sentir que están ahogándose en nuevo conocimiento.

Este NO es un problema nuevo

Por 80 años, **Annual Reviews** ha estado sintetizando la literatura primaria para ayudar a los científicos a mantenerse al día con la riqueza de investigación científica que es publicada cada año.

Los comités editoriales de Annual Reviews están compuestos por los mas eminentes eruditos dentro de sus disciplinas.

Cada Artículo de Annual Reviews es en si un Motor de Búsqueda

- De una manera mas inteligente que cualquier motor de búsqueda, nuestros autores expertos han encontrado e interpretado los documentos mas significativos de los temas en cuestión.
- Cada articulo ofrece extenso contenido en línea, incluyendo texto completo y PDFs totalmente investigables, y vínculos suplementarios a todos las publicaciones CrossRef participantes, Medline[®] y Web of Science[®] de ISI.

Relevante y Altamente Citada

- Las publicaciones de Annual Reviews tienen los mas altos factor de impacto, dentro de las publicaciones valoradas e indexadas por Journal Citation Report ISI® (2010 JCR®)
- **17 de las más importantes 100 *journals* son de Annual Reviews**
- Dentro de su categoría:
 - 16 *journals* tienen el Factor de Impacto #1**
 - 5 *journals* tienen el Factor de Impacto #2**
 - 14 *journals* están dentro del top 5 en Factor de Impacto.**

Relevante y Altamente Citada

ANNUAL REVIEWS RANKINGS IN THOMSON REUTERS JOURNAL CITATION REPORTS®

2011 Journal Citation Reports® (Thomson Reuters, 2012)

The latest available Journal Citation Reports® (JCR) published by Thomson Reuters ranks 10,677 journals in 232 disciplines by Impact Factor. This ranking system is based upon the number of times an average article is cited during the previous two years.

Download Annual Reviews 2011 JCR Rankings in Excel format.

Annual Review of:	Rank	Category Name	# Journals Cited In Category	Impact Factor	Cited Half-Life
Analytical Chemistry	1	Chemistry, Analytical	73	9.048	3.1
Analytical Chemistry	2	Spectroscopy	41	9.048	3.1
Anthropology	7	Anthropology	79	2.553	>10.0
Astronomy and Astrophysics	1	Astronomy and Astrophysics	56	26.452	>10.0
Biochemistry	1	Biochemistry and Molecular Biology	289	34.317	>10.0
Biomedical Engineering	1	Biomedical Engineering	72	12.214	6.6
Biophysics	1	Biophysics	74	13.574	2.9
Cell and Developmental Biology	1	Developmental Biology	40	15.836	8.0
Cell and Developmental Biology	7	Cell Biology	180	15.836	8.0
Chemical and Biomolecular Engineering**	1	Chemistry, Applied	71	7.294	1.4
Chemical Engineering		Chemical Engineering	133	7.294	1.4
Chemical Physics		Chemical Physics	109	9.111	4.5
Chemical Physics		Chemical Physics	75	9.111	4.5
Condensed Matter Physics**	5	Physics, Condensed Matter	69	12.389	1.3
Earth and Planetary Sciences	2	Geosciences			>10.0

Clasificación de la series de AR, de acuerdo con el ISI.

Publicaciones de Annual Reviews

AR publica *journals* en las ciencias Biomédicas, Ciencias de la Vida, Ciencias Físicas y Sociales, y Ciencias Económicas.

Ciencias Biomédicas y Ciencias de la Vida

Analytical Chemistry

Biochemistry

Biomedical Engineering

Biophysics

Cell and Developmental Biology

Chemical and Biomolecular
Engineering

Clinical Psychology

Ecology, Evolution and Systematics

Entomology

Food Science and Technology

Genetics

Genomics and Human Genetics

Immunology

Marine Science

Medicine

Microbiology

Neuroscience

Nutrition

Pathology, Mechanisms of
Disease

Pharmacology and Toxicology

Physiology

Phytopathology

Plant Biology

Psychology

Public Health

Ciencias Físicas

- Analytical Chemistry
- Astronomy and Astrophysics
- Biomedical Engineering
- Biophysics
- Chemical and Biomolecular Engineering
- Condensed Matters Physics
- Earth and Planetary Sciences
- Environment and Resources
- Fluid Mechanics
- Marine Science
- Materials Research
- Nuclear and Particle Science
- Physical Chemistry

Ciencias Sociales

- Anthropology
- Clinical Psychology
- Economics
- Environment and Resources
- Financial Economics
- Law and Social Sciences
- Political Science
- Psychology
- Public Health
- Resource Economics
- Sociology

Características y Herramientas en Línea

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35

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BIOMEDICAL/LIFE SCIENCES

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☒ ANALYTICAL CHEMISTRY	☒ ANALYTICAL CHEMISTRY	☒ ANTHROPOLOGY
☒ BIOCHEMISTRY	☒ ASTRONOMY AND ASTROPHYSICS	☒ CLINICAL PSYCHOLOGY
☒ BIOMEDICAL ENGINEERING	☒ BIOMEDICAL ENGINEERING	☒ ECONOMICS
☒ BIOPHYSICS	☒ BIOPHYSICS	☒ ENVIRONMENT AND RESOURCES
☒ CELL AND DEVELOPMENTAL BIOLOGY	☒ CHEMICAL AND BIOMOLECULAR ENGINEERING	☒ FINANCIAL ECONOMICS
☒ CHEMICAL AND BIOMOLECULAR ENGINEERING	☒ COMPUTER SCIENCE	☒ LAW AND SOCIAL SCIENCE
☒ CLINICAL PSYCHOLOGY	☒ CONDENSED MATTER PHYSICS	☒ POLITICAL SCIENCE
☒ ECOLOGY, EVOLUTION, AND SYSTEMATICS	☒ EARTH AND PLANETARY SCIENCES	☒ PSYCHOLOGY
☒ ENTOMOLOGY		☒ PUBLIC HEALTH
☒ FOOD SCIENCE AND TECHNOLOGY		
☒ GENETICS		
☒ GENOMICS AND HUMAN GENETICS		
☒ IMMUNOLOGY		
☒ MARINE SCIENCE		
	☒ NUCLEAR AND PARTICLE SCIENCE	
	☒ PHYSICAL CHEMISTRY	

Series de AR, con información de estatus de acceso.

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Página del periódico

Home / Journals / Biochemistry

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BIOCHEMISTRY

FEATURED REVIEWS **NEWS** **HIDE**

ABOUT THIS JOURNAL

The Annual Review of Biochemistry, in publication since 1932, sets the standard for review articles in biological chemistry and molecular biology. Since its inception, these volumes have served as an indispensable resource for both practicing biochemist and student of biochemistry.

ADD TO FAVORITES

MECHANISMS OF ENDOCYTOSIS

Endocytic mechanisms control the lipid and protein composition of the plasma membrane, thereby regulating how cells interact with

Congratulations to F. Ulrich Hartl, Editorial Committee Member for the Annual Review of Biochemistry, who was elected a fellow of the American Association for the Advancement of Science (AAAS).

Información y varias herramientas de la revista.

JOURNAL CONTENT

- JOURNAL HOME
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MOST RECENT - The most recently available reviews for this journal

☐ select / unselect all reviews For ☒ reviews Select Option

☐ From Virus Structure to Chromatin: X-ray Diffraction to Three-Dimensional Electron Microscopy Aaron Klug Vol. 79: 1-35 PDF (1900K) FULL TEXT

ABSTRACT THUMBNAILS RELATED CONTENT SUPPLEMENTAL MATERIALS

☐ Genomic Screening with RNAi: Results and Challenges Stephanie Mohr, Chris Bakal, Norbert Perrimon Vol. 79: 37-64 PDF (338K) FULL TEXT

ABSTRACT THUMBNAILS RELATED CONTENT SUPPLEMENTAL MATERIALS

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BIOMEDICAL/LIFE SCIENCES

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Revisiones anticipadas.

The screenshot displays the 'MARINE SCIENCE' website interface. On the left sidebar, under 'JOURNAL CONTENT', the 'FORTHCOMING' link is highlighted with a red box. The main content area features a header 'FORTHCOMING - Volume 3, 2011' also enclosed in a red box. Below this header, there are navigation links: 'select / unselect all reviews', 'For ☒ reviews', and a 'Select Option' dropdown. The 'REVIEWS IN ADVANCE' section lists three articles, each with a checkbox, title, author, volume, and a PDF download link. The first article, 'Microbial Extracellular Enzymes and the Marine Carbon Cyle' by Carol Arnosti, Vol. 3, is highlighted with a red box. The second article is 'DNA Barcoding of Marine Metazoa' by Ann Bucklin, Dirk Steinke, and Leocadio Blanco-Bercial, Vol. 3. The third article is 'Environmental Proteomics: Changes in the Proteome of Marine Organisms in Response to Environmental Stress, Pollutants, Infection'. Each article entry includes links for 'ABSTRACT', 'THUMBNAILS', 'RELATED CONTENT', and 'SUPPLEMENTAL MATERIALS'.

MARINE SCIENCE

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FORTHCOMING - Volume 3, 2011

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REVIEWS IN ADVANCE

- ☐ **Microbial Extracellular Enzymes and the Marine Carbon Cyle** PDF (2306K)
Carol Arnosti
Vol. 3
ABSTRACT THUMBNAILS RELATED CONTENT SUPPLEMENTAL MATERIALS
- ☐ **DNA Barcoding of Marine Metazoa** PDF (1526K)
Ann Bucklin, Dirk Steinke, Leocadio Blanco-Bercial
Vol. 3
ABSTRACT THUMBNAILS RELATED CONTENT SUPPLEMENTAL MATERIALS
- ☐ **Environmental Proteomics: Changes in the Proteome of Marine Organisms in Response to Environmental Stress, Pollutants, Infection,** PDF (1074K)

Información sobre la próxima publicación de la serie y acceso al material ya disponible en formato en línea.

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Material suplementario

The screenshot displays the 'JOURNALS' section of the Annual Review of Analytical Chemistry website. On the left sidebar, the 'SUPPLEMENTAL MATERIALS' link is highlighted with a red box. The main content area is titled 'SUPPLEMENTAL MATERIAL IN ANALYTICAL CHEMISTRY' and includes a 'Sort by: Year' dropdown. Three article entries are shown, each with a red box highlighting a specific supplemental material option: 'REFERENCES' for the first article, 'FIGURES' for the second, and 'VIDEO' for the third. The bottom left features promotional banners for 'GET MORE FROM ANNUAL REVIEWS!' with 'SUBSCRIBE AND PURCHASE' and 'MANAGE YOUR ALERTS' buttons. A '89 YEARS' anniversary logo is visible in the bottom left corner.

JOURNALS

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EXPECTED PUBLICATION DATES

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SUPPLEMENTAL MATERIALS

AR AUDIO & VIDEO SERIES

SUPPLEMENTAL MATERIAL IN ANALYTICAL CHEMISTRY

Sort by: Year ▼

An Editor's View of Analytical Chemistry (the Discipline)
Royce W. Murray
Annual Review of Analytical Chemistry, 2010, Vol. 3 : 1-18
Description: Editorials in Analytical Chemistry

VIDEO FIGURES TABLES **REFERENCES** OTHER

Applications of Aptamers as Sensors
Eun Jeong Cho, Joo-Woon Lee, Andrew D. Ellington
Annual Review of Analytical Chemistry, 2009, Vol. 2 : 241-264
Description: Supplemental figures 1-5.

VIDEO **FIGURES** TABLES

Coherent Anti-Stokes Raman Scattering Microscopy and Medicine
Conor L. Evans, X. Sunney Xie
Annual Review of Analytical Chemistry, 2008, Vol. 1 : 1-18
Description: Supplemental Video.

VIDEO FIGURES TABLES

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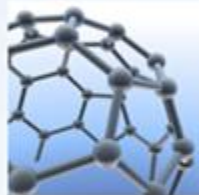
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☒ **Analytical Chemistry**

The Annual Review of Analytical Chemistry, first published in 2008, provides a perspective on the field of analytical chemistry.
Latest Volume: [Volume 3 \(2010\)](#)



☒ **Anthropology**

The Annual Review of Anthropology, in publication since 1972, covers significant developments in the subfields of Anthropology.
Latest Volume: [Volume 38 \(2009\)](#)



☒ **Astronomy and Astrophysics**

The Annual Review of Astronomy and Astrophysics, in publication since 1963, covers

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Last Updated: January 3, 2013

Annual Review Series, Volume	Expected Online Appearance Date	Expected Print Publication Date
Analytical Chemistry 6 (2013)	June 12, 2013	July 19, 2013
Animal Biosciences 1 (2013) RIA	February 8, 2013	March 15, 2013
Anthropology 41 (2012)	Published (September 24, 2012)	Published (November 7, 2012)
Astronomy and Astrophysics 50 (2012)	Published (August 28, 2012)	Published (October 3, 2012)
Biochemistry 82 (2013)	June 2, 2013	July 7, 2013
Biomedical Engineering 15 (2013)	July 11, 2013	August 15, 2013
Biophysics 42 (2013)	May 6, 2013	June 9, 2013
Cell and Developmental Biology 28 (2012)	Published (October 11, 2012)	Published (November 28, 2012)
Chemical and Biomolecular Engineering 4 (2013)	June 7, 2013	July 15, 2013
Clinical Psychology 9 (2013) RIA	March 28, 2013	April 27, 2013
Condensed Matter Physics 4 (2013) RIA	March 10, 2013	April 12, 2013
Earth and Planetary Sciences 41 (2013)	May 30, 2013	June 30, 2013
Environment and Resources 37 (2012)	Published (October 17, 2012)	Published (November 28, 2012)

Fechas previstas para las publicaciones próximas de cada serie

Navegando por el Contenido

- Ejercicio
 - Navegar por: Journal
 1. Buscar el Journal “Biochemistry”
 2. Cual es el Review que tienen mayor numero de downloads en “Biochemistry”?
 3. Cuando es la fecha de la próxima publicacion?
 - Navegar por: Colección
 1. Elegir la colección “Social Sciences”
 2. Buscar el Journal “Sociology”
 3. Cual es el Review destacado?

Navegando por el Contenido

Busca Avanzada

SEARCH

SEARCH CRITERIA

NEW SEARCH

JOURNAL CONTENTGENERAL INFOCITATION

SEARCH FORIN

All Fields

ANDAbstract

ANDArticle Title

☒ in all journals☐ in selected journals

PUBLICATION DATES

Between1930and2010

CLEARSEARCH

SEARCH TIPS

SEARCHING

You can perform a full-text search across all Annual Reviews content by using either the Search tool at the top of each page or the Advanced Search tool on this page. If you are a registered user of the site, you can save your search criteria in order to re-run the search later. Search results are automatically displayed by relevance, but you can also choose to display them by date, most cited, and most downloaded.

Note: Sorting your found articles by criteria other than relevance may bring articles to the top of the list that would be low on a list sorted by relevance. However, making your initial search terms more precise will ensure that fewer articles of low relevance populate your results and will lower the probability that an alternative sort will promote such results to the top of the newly sorted list.

ADVANCED SEARCH

The Advanced Search feature enables very specific searching. Use the text boxes in the search grid to enter search terms, and then use the remaining parameters to refine the scope of your search. With the drop down boxes, you can narrow or expand the scope of your search by choosing to search in all fields, in the article abstract, in the article title, or in the full text, or by a specific author, citing author, or author-assigned keyword or keyword phrase.

Your search query will be displayed at the top of the search results page. Any search terms with matching parameters will be combined in a single line to clear space for additional search parameters. To refine your search, simply add additional search parameters and click Search again.

Clicking Clear will clear all search terms from the grid. To refresh the page and run an entirely new search, click New Search.

ADVANCED SEARCH TIPS

BOOLEAN SEARCH

Within all the search perform searches th between each of the below).

AUTHOR SEARCH

To search for multip

SAVED SEARCHES

SAVE THIS SEARCHVIEW SAVED SEARCHES

Saving this search allows you to execute the same search later without having to re-enter the criteria each time. Simply give this search a name, choose how often you'd like the search results sent to you, and press save. Search results will be sent to the email address associated with your account.

GIVE THIS SEARCH A NAMENeverSAVE

Opciones y sugerencias de búsqueda.

Navegando por el Contenido

Hoja de resultados

SEARCH CRITERIA

NEW SEARCH

JOURNAL CONTENTGENERAL INFOCITATION

SEARCH FORIN

"protein binding"All Fields

ANDAbstract

ANDArticle Title

☒ in all journals☐ in selected journals

PUBLICATION DATES

Between1930and2010

CLEARSEARCH

REFINE YOUR SEARCH

MOST FREQUENT AUTHOR NAMES

Palczewski, Krzysztof (4)

von Hippel, Peter H. (4)

Brater, D C (3)

Leake, C D (3)

Merrill, A H (3)

Vesell, E S (3)

Wittmann, H G (3)

Yaffe, S J (3)

JOURNAL CONTENT SEARCH RESULTS

Sort By: Relevance

Search Query: ALL: "protein binding"

Showing 1 - 20 of 107612345678910Next

Results per page: 20

☐ select / unselect all reviews

For ☒ reviews Select Option

☐ A Complex Assembly Landscape for the 30S Ribosomal Subunit

Michael T. Sykes, James R. Williamson

Annual Review of Biophysics Vol. 38 (2009): 197-215

ABSTRACTTHUMBNAILSRELATED CONTENTSUPPLEMENTAL MATERIALS

☐ DNA Conformation and Protein Binding

A A Travers

Annual Review of Biochemistry Vol. 58 (1989): 427-452

ABSTRACTTHUMBNAILSRELATED CONTENTSUPPLEMENTAL MATERIALS

☐ VOLUMETRIC PROPERTIES OF PROTEINS

Tigran V. Chalikian

Annual Review of Biophysics and Biomolecular Structure Vol. 32 (2003): 207-235

ABSTRACTTHUMBNAILSRELATED CONTENTSUPPLEMENTAL MATERIALS

☐ THE LA PROTEIN

Sandra L. Wolin and Tommy Cedervall

Annual Review of Biochemistry Vol. 71 (2002): 375-403

ABSTRACTTHUMBNAILSRELATED CONTENTSUPPLEMENTAL MATERIALS

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Filtrando resultados

REFINE YOUR SEARCH

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Palczewski, Krzysztof (4)

von Hippel, Peter H. (4)

Brater, D C (3)

Leake, C D (3)

Merrill, A H (3)

Vesell, E S (3)

Wittmann, H G (3)

Yaffe, S J (3)

Ammar, El-Desouky (2)

Annaert, Wim (2)

MOST FREQUENT KEYWORDS

MOST FREQUENT JOURNALS

REFINE YOUR SEARCH

MOST FREQUENT AUTHOR NAMES +

MOST FREQUENT KEYWORDS -

signal transduction (35)

transcription (23)

gene regulation (14)

apoptosis (9)

cytoskeleton (9)

evolution (9)

cancer (8)

recombination (8)

transcription factor (8)

translation (8)

MOST FREQUENT JOURNALS

REFINE YOUR SEARCH

MOST FREQUENT AUTHOR NAMES +

MOST FREQUENT KEYWORDS +

MOST FREQUENT JOURNALS -

Biochemistry (150)

Pharmacology and Toxicology (118)

Genetics (93)

Physiology (83)

Cell and Developmental Biology (68)

Microbiology (62)

Immunology (57)

Medicine (51)

Nutrition (43)

Navegando por el Contenido

- Ejercicio
 - Búsqueda por: Autor
 1. Buscar los autores Julio Ríos-Figueroa y Brígida García
 2. En que revista estos autores han publicado?
 - Búsqueda por: Título de artículo
 1. Buscar artículos que tienen las palabras “phase change”
 2. Cuantos artículos hay con estas palabras?
 - Búsqueda por: Tema
 1. Buscar el tema “Acetabularia” (algas verdes)
 2. Cuales son los “journals” que tienen mas artículos con este tema? Filtrar el journal que tenga 7 artículos.

Navegando por el Contenido

Página del artículo HTML

BIOPHYSICS AND BIOMOLECULAR STRUCTURE

Volume 29, 2000

FULL-TEXT HTML

◀ Prev. - Next ▶

FIGURES

REFERENCES

RELATED REVIEWS

KEYWORD SEARCH

ELECTROSTATIC MECHANISMS OF DNA DEFORMATION

Annual Review of Biophysics and Biomolecular Structure

Vol. 29: 497-521 (Volume publication date June 2000)

Loren Dean Williams

School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, Georgia 30332-0400; e-mail: loren.williams@chemistry.gatech.edu

L. James Maher III¹

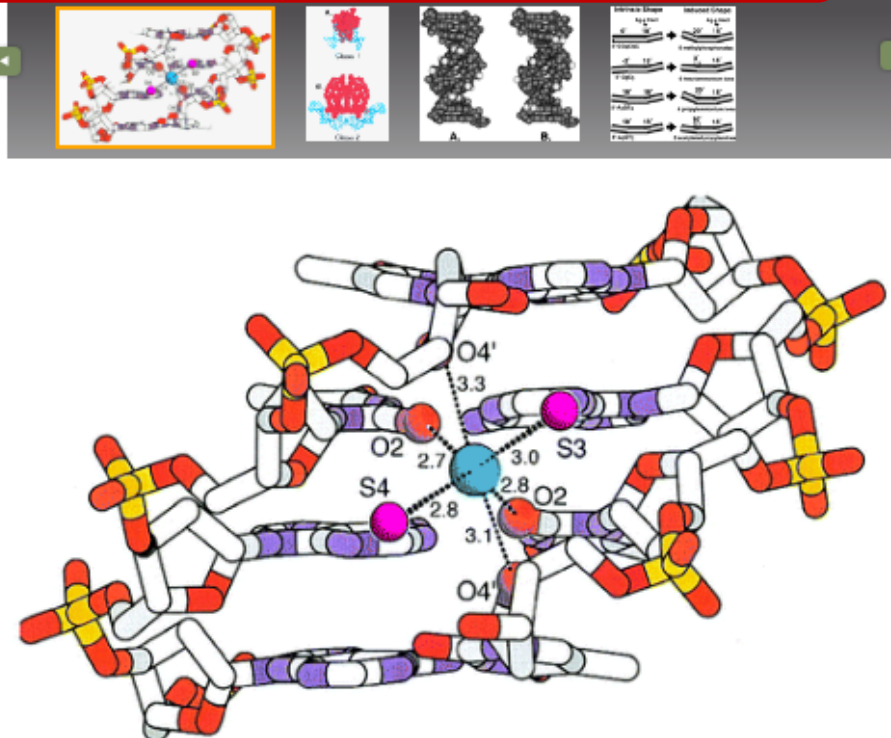
Department of Biochemistry and Molecular Biology, Mayo Foundation, Rochester, Minnesota 55905; e-mail: maher@mayo.edu

PDF (375 KB)

Citation: [PubMed](#) | [ISI](#) | [Download](#) | [Email notification](#) | [RSS](#)

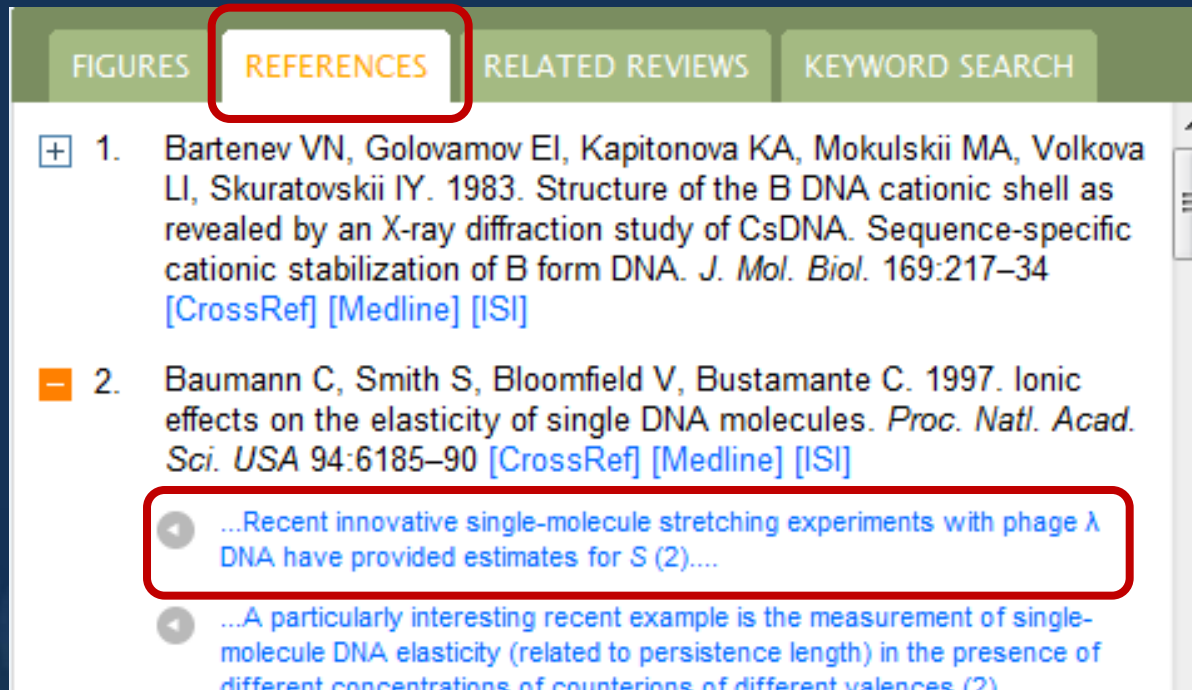
ABSTRACT

The genomes of higher cells consist of double-helical DNA, a densely charged polyelectrolyte of immense length. The intrinsic physical properties of DNA, as well as the properties of its complexes with proteins and ions, are therefore of fundamental interest in understanding the functions of DNA as an informational macromolecule. Because individual DNA molecules often exceed 1 cm in length, it is clear that DNA bending, folding, and interaction with nuclear proteins are necessary for packaging



Navegando por el Contenido

Página del artículo



The screenshot shows a web interface for navigating through an article. At the top, there are four tabs: FIGURES, REFERENCES, RELATED REVIEWS, and KEYWORD SEARCH. The REFERENCES tab is highlighted with a red box. Below the tabs, a list of references is displayed. The first reference is numbered 1 and has a plus icon. The second reference is numbered 2 and has a minus icon. Below the second reference, there are two expandable text blocks, each preceded by a left-pointing arrow. The first expandable block contains text about single-molecule stretching experiments with phage λ DNA. The second expandable block contains text about the measurement of single-molecule DNA elasticity. Both expandable blocks are highlighted with red boxes.

FIGURES REFERENCES RELATED REVIEWS KEYWORD SEARCH

1. Bartenev VN, Golovamov EI, Kapitonova KA, Mokulskii MA, Volkova LI, Skuratovskii IY. 1983. Structure of the B DNA cationic shell as revealed by an X-ray diffraction study of CsDNA. Sequence-specific cationic stabilization of B form DNA. *J. Mol. Biol.* 169:217–34 [CrossRef] [Medline] [ISI]

2. Baumann C, Smith S, Bloomfield V, Bustamante C. 1997. Ionic effects on the elasticity of single DNA molecules. *Proc. Natl. Acad. Sci. USA* 94:6185–90 [CrossRef] [Medline] [ISI]

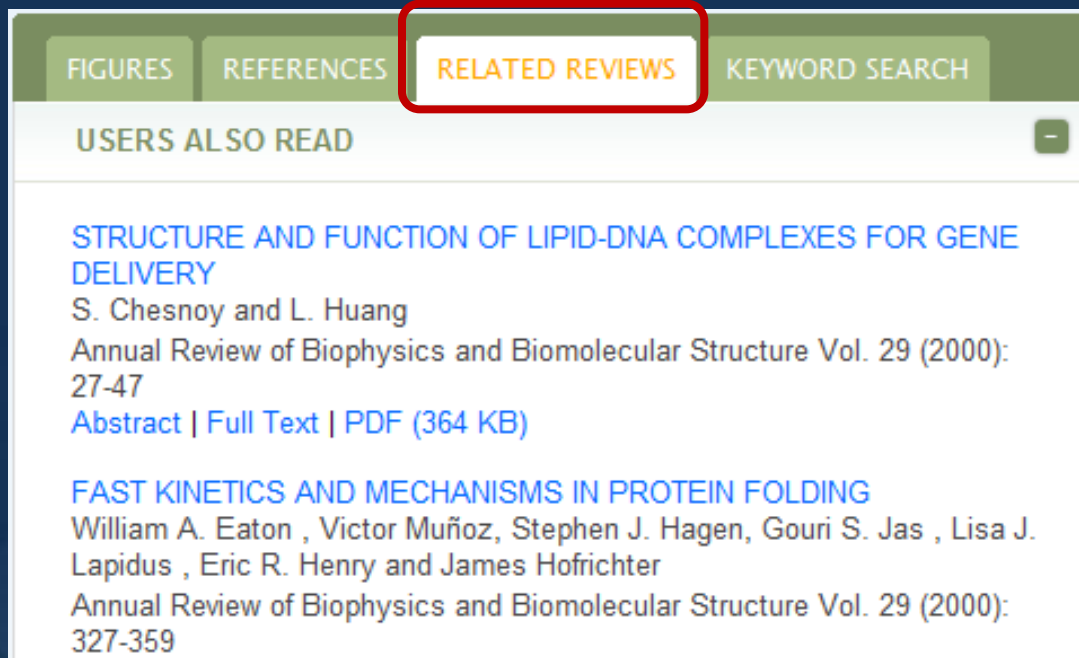
...Recent innovative single-molecule stretching experiments with phage λ DNA have provided estimates for S (2)....

...A particularly interesting recent example is the measurement of single-molecule DNA elasticity (related to persistence length) in the presence of different concentrations of counterions of different valences (2)....

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Annual Review of Biophysics and Biomolecular Structure Vol. 29 (2000): 27-47
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Annual Review of Biophysics and Biomolecular Structure Vol. 29 (2000): 327-359

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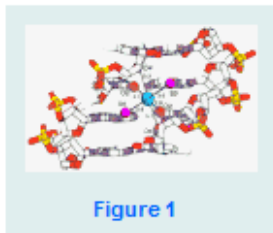
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hybrids, which are partially occupied by monovalent cations (Figure 1; see color insert). The greater occupancies of water over monovalent cations in hybrid solvent sites present difficult analytical challenges during X-ray structure determination. However, these challenges are now being at least partially overcome with high-resolution data, ion substitution, and other techniques (82, 83, 96).



In purely polyelectrolyte solution models, cations around DNA are mobile and are distributed with radial dependence (70, 71). Several lines of evidence suggest that a modest modification of these powerful models may be in order. The mobile cation atmosphere, whether monovalent or divalent, appears to be perturbed by DNA functional groups and is sequence dependent.

Crystallographic observations of monovalent cation-water hybrids within the minor groove of A-tracts (82, 83, 96) suggest selective partitioning into that region. In addition, fully hydrated magnesium ions have been shown to avoid DNA amino groups in X-ray structures (83), consistent with nuclear magnetic resonance (NMR) evidence for perturbations of divalent cations from purely radial distributions in solution (29). The influence of DNA functional groups on cation distribution appears to cause a superimposition of peaks and troughs on purely polyelectrolyte radial cation distributions.

Additional Evidence of Influence of DNA Functional Groups on Cation Distributions

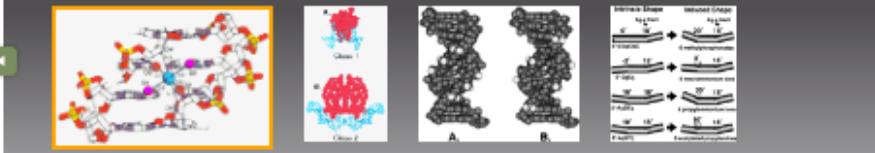
The first observation of a cation within the minor groove of an AT-tract was made in 1973 by Rosenberg et al, who used single-crystal diffraction to identify a sodium ion near the floor of an abbreviated minor groove of a dinucleotide duplex (75). The relevance of that structure was discounted during initial interpretations of the Dickerson dodecamer. Those interpretations described a purely aqueous "spine of hydration" in the AT-tract minor groove (46). However, additional support for monovalent

FIGURES

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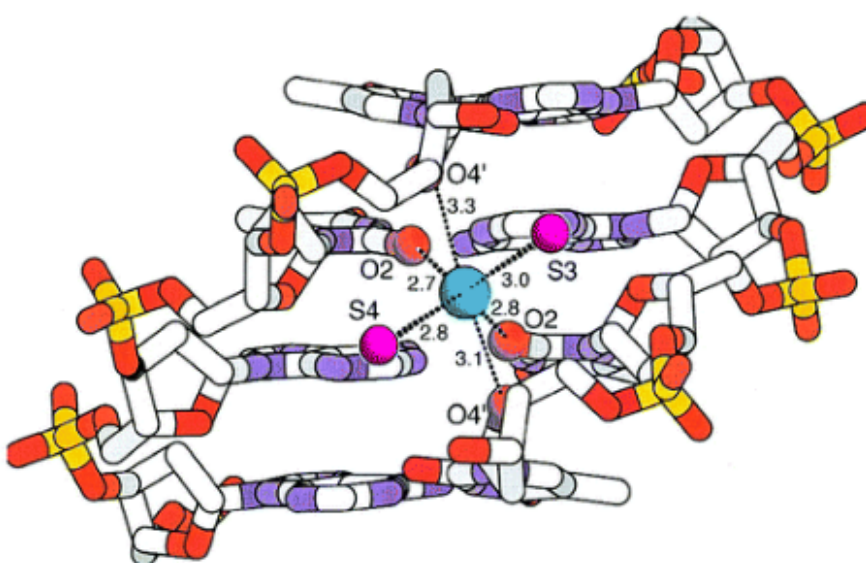


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Loren Dean Williams, L. James Maher III
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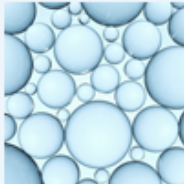
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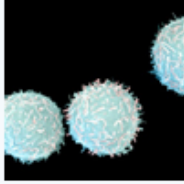
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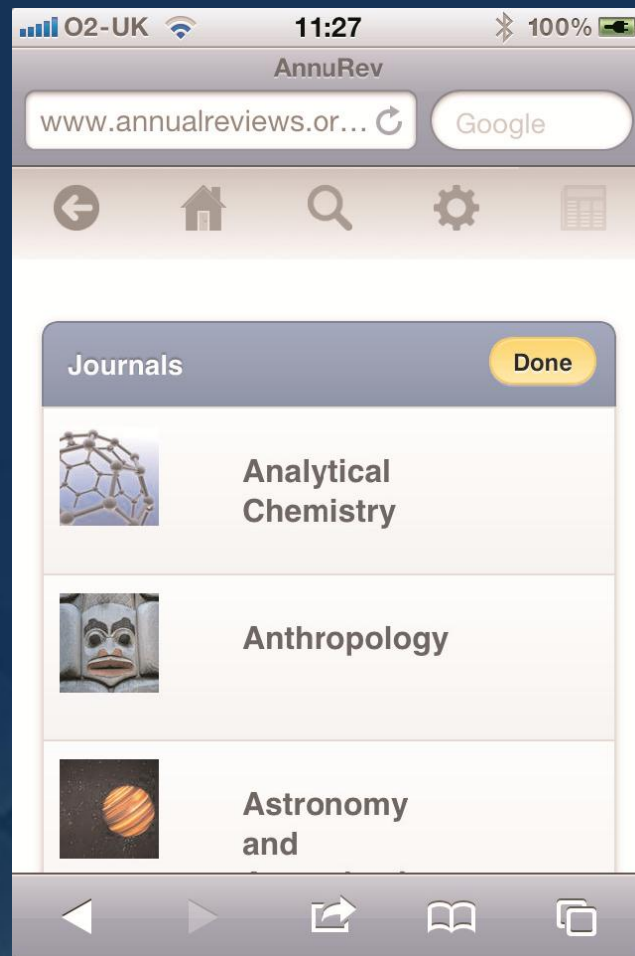


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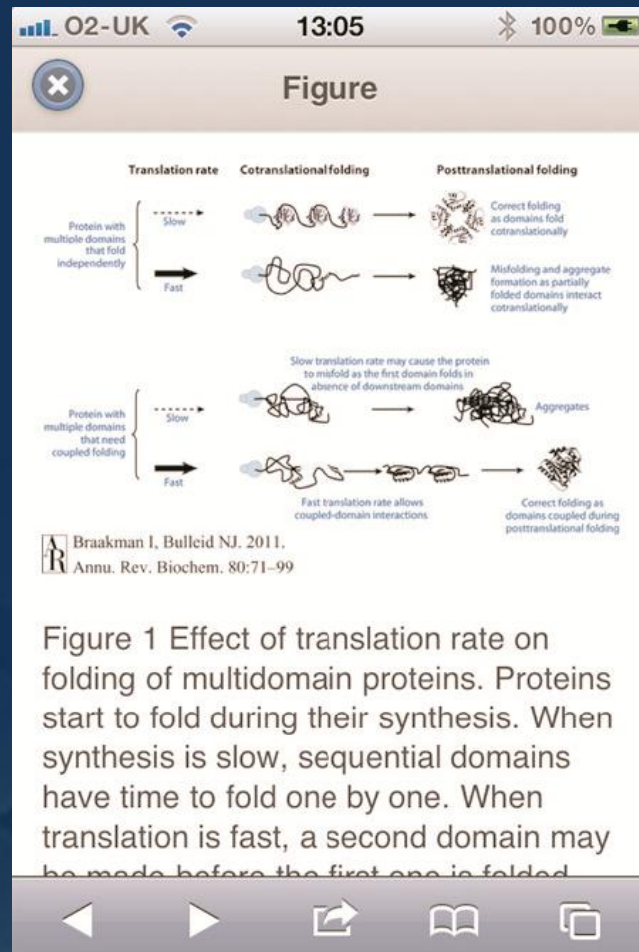
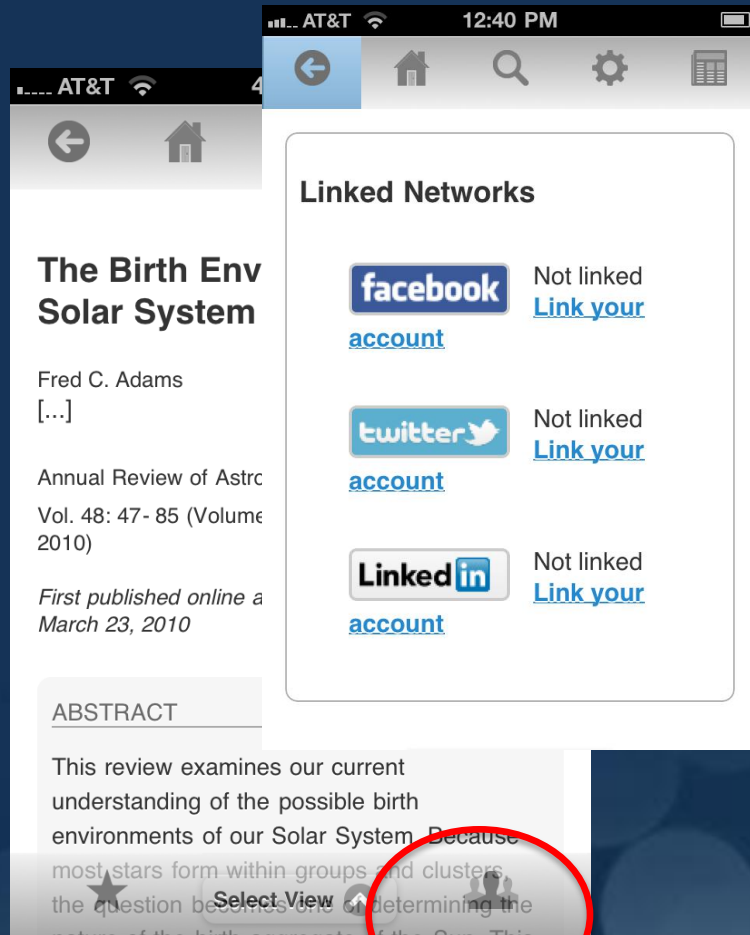


Figure 1 Effect of translation rate on folding of multidomain proteins. Proteins start to fold during their synthesis. When synthesis is slow, sequential domains have time to fold one by one. When translation is fast, a second domain may be made before the first one is folded.

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