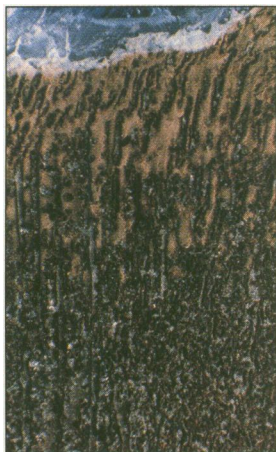


**1969**  
The first galaxies



**1975 & 2020**  
Reading the bones of  
dinosaur development

## NEWS & COMMENT

- East Europe: A Chance to Stop HIV **1964**
- Will Tritium Give Magnetic Fusion a Shot in the Arm? **1966**
- Draft Genome Map Debuts on Internet **1967**
- Fermat Proof Hits a Stumbling Block **1967**
- Radiation Exposure: Scientists Study 'Cold War' Fallout **1968**

## RESEARCH NEWS

- The Quest for the Youngest Galaxies **1969**
- HIV 'Cofactor' Comes in for More Heavy Fire **1971**
- The Whole World Had a Case of the Ice Age Shivers **1972**
- Wiring for a Very Small World **1973**
- Army Targets a Potential Vaccine Against Cholesterol **1974**
- A Closer Look at the Dinosaur-Bird Link **1975**

## PERSPECTIVES

- Guides to the Heart of the Spliceosome **1978**  
J. A. Wise

- p53: At the Crossroads of Molecular Carcinogenesis and Risk Assessment **1980**  
C. C. Harris

## RESEARCH ARTICLES

- Mutations in U6 snRNA That Alter Splice Site Specificity: Implications for the Active Site **1982**  
C. F. Lesser and C. Guthrie

- The U5 and U6 Small Nuclear RNAs as Active Site Components of the Spliceosome **1989**  
E. J. Sontheimer and J. A. Steitz

- A Mitochondrial Protease with Two Catalytic Subunits of Nonoverlapping Specificities **1997**  
J. Nunnari, T. D. Fox, P. Walter

## REPORTS

- Generation of Impossible Cross-Peaks Between Bulk Water and Biomolecules in Solution NMR **2005**  
W. S. Warren, W. Richter, A. H. Andreotti, B. T. Farmer II

## DEPARTMENTS

THIS WEEK IN SCIENCE	1951	INSIDE AAAS	2066
EDITORIAL	1953	BOOK REVIEWS	2067
Molecule of the Year		<i>Bad Habits</i> , reviewed by S. D. Sugarman • <i>Men Among the Mammoths</i> , D. K. Grayson • <i>The Man Who Sold the Milky Way</i> , D. DeVorkin • <i>Universal Ice</i> , M. Neufeld • <i>Simple Models of Complex Nuclei</i> , J. Ginocchio	
LETTERS	1954	PRODUCTS & MATERIALS	2074
MOLECULE OF THE YEAR	1958	QUARTERLY AUTHOR INDEX	2094
p53 Sweeps Through Cancer Research			
SCIENCESCOPE	1963		
RANDOM SAMPLES	1976		

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## COVER

The protective action of the wild-type *p53* gene helps to suppress tumors in humans. However, the *p53* gene is the most commonly mutated gene in human cancer, and these mutations may actively promote tumor growth. The purple dots indicate some of the many

tumor types that may carry *p53* mutations, including brain, esophagus, lung, breast, liver, prostate, and colon. See Editorial, page 1953, Molecule of the Year article, page 1958, and Perspective, page 1980. [Illustration: K. Sutliff and C. Faber Smith]

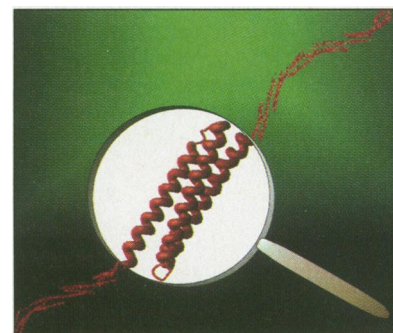


<b>A Simple Kinetic Model of Polymer Adsorption and Desorption</b>	<b>2010</b>
J. F. Douglas, H. E. Johnson, S. Granick	
<b>Molecular Light Emission Induced by Inelastic Electron Tunneling</b>	<b>2012</b>
E. Flaxer, O. Sneh, O. Cheshnovsky	
<b>Fabrication of Conducting Polymer Interconnects</b>	<b>2014</b>
C. L. Curtis, J. E. Ritchie, M. J. Sailor	
<b>Stable Isotope Enrichment in Paleowaters of the Southeast Atlantic Coastal Plain, United States</b>	<b>2016</b>
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<b>Evidence of the Growth Plate and the Growth of Long Bones in Juvenile Dinosaurs</b>	<b>2020</b>
C. Barreto, R. M. Albrecht, D. E. Bjorling, J. R. Horner, N. J. Wilsman	
<b>Mantle Plume Helium in Submarine Basalts from the Galápagos Platform</b>	<b>2023</b>
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<b>Crystal Structure of the Repetitive Segments of Spectrin</b>	<b>2027</b>
Y. Yan, E. Winograd, A. Viel, T. Cronin, S. C. Harrison, D. Branton	
<b>A Covalent Enzyme-Substrate Intermediate with Saccharide Distortion in a Mutant T4 Lysozyme</b>	<b>2030</b>
R. Kuroki, L. H. Weaver, B. W. Matthews	
<b>Chromosome Condensation in <i>Xenopus</i> Mitotic Extracts Without Histone H1</b>	<b>2033</b>
K. Ohsumi, C. Katagiri, T. Kishimoto	
<b>Role of U6 snRNA in 5' Splice Site Selection</b>	<b>2035</b>
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<b>Connexin Mutations in X-Linked Charcot-Marie-Tooth Disease</b>	<b>2039</b>
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<b>Perceptual Organization and the Judgment of Brightness</b>	<b>2042</b>
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<b>T Cell Activation Antigen, CD26, as a Cofactor for Entry of HIV in CD4<sup>+</sup> Cells</b>	<b>2045</b>
C. Callebaut, B. Krust, E. Jacotot, A. G. Hovanesian	
<b>Distinct Roles for Cyclin-Dependent Kinases in Cell Cycle Control</b>	<b>2050</b>
S. van den Heuvel and E. Harlow	
<b>Receptive Field Reorganization in Dorsal Column Nuclei During Temporary Denervation</b>	<b>2054</b>
M. J. Pettit and H. D. Schwark	
<b>WT1-Mediated Growth Suppression of Wilms Tumor Cells Expressing a WT1 Splicing Variant</b>	<b>2057</b>
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<b>Peptide Translocation by Variants of the Transporter Associated with Antigen Processing</b>	<b>2059</b>
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## TECHNICAL COMMENTS

<b>Male Sexual Orientation and Genetic Evidence</b>	<b>2063</b>
N. Risch, E. Squires-Wheeler, B. J. B. Keats; D. H. Hamer, S. Hu, V. Magnuson, N. Hu, A. M. L. Pattatucci	



2027

A walk along the strand

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