This Week in Science .......................................................... 1145

LETTERS
Detecting Colon Cancer: A. L. Neugut; D. M. Eddy; G. Kolata; Predator and Prey Behavior: A. Forester; C. W. Thayer; Modern Paleontology: A. J. Boucot; Evaluations: E. Janeway; D. E. Koshland, Jr. ................. 1186

EDITORIAL
Excursions in Biotechnology ............................................. 1191

ARTICLES
Strategies and Applications of in Vitro Mutagenesis: D. Botstein and D. Shortle .................................................. 1193
Transfectomas Provide Novel Chimeric Antibodies: S. L. Morrison ................................................................. 1202
Genetic Engineering of Novel Genomes of Large DNA Viruses: B. Roizman and F. J. Jenkins .................................... 1208
Arabidopsis thaliana and Plant Molecular Genetics: E. M. Meyerowitz and R. E. Pruitt ............................................. 1214
Heterologous Protein Secretion from Yeast: R. A. Smith, M. J. Duncan, D. T. Moir ....................................................... 1219
Biotechnology in Food Production and Processing: D. Knorr and A. J. Sinskey ....................................................... 1224
Biotechnology in Pharmaceuticals: The Japanese Challenge: M. D. Dibner ................................................................. 1230

NEWS AND COMMENT
A European Defense Initiative ............................................ 1243
A Grim Portrait of the Postwar World ................................ 1245
No Trace of Soviet Researcher ............................................ 1246

Briefing: Generic Valium Approved by FDA; Navy Personnel Told to Attend Fewer Conferences; Paying for Research Instrumentation; Condor Agreement Reached; APA Issues Warning on Antipsychotic Drugs ........................................... 1247
**RESEARCH NEWS**

- What Causes Near-sightedness? .......................... 1249
- Slow Growth in Seabirds .................................. 1250
- String as a Theory of Everything ........................ 1251
- Basic Modular Format in tRNA’s and rRNA’s ............. 1254

**BOOK REVIEWS**

- American Sociology, reviewed by A. Sica; The Control of Fish Migration and Fish Migration, J. Dodson; Molecular Bases of Neural Development, L. F. Reichardt; Books Received .......................... 1255

**REPORTS**

- Geochemical Indicator of Tectonic Stress Resulting in an Earthquake in Central Japan, 1984: R. Sugisaki and T. Sugura .................. 1261
- Brain “Identifier Sequence” Is Not Restricted to Brain: Similar Abundance in Nuclear RNA of Other Organs: G. P. Owens, N. Chaudhari, W. E. Hahn .............. 1263
- Superinduction of c-fos by Nerve Growth Factor in the Presence of Peripherally Active Benzodiazepines: T. Curran and J. I. Morgan ............... 1265
- Migration and Differentiation of Cerebral Cortical Neurons After Transplantation into the Brains of Ferrets: S. K. McConnell .................. 1269
- Differential Control of U1 Small Nuclear RNA Expression During Mouse Development: E. Lund, B. Kahan, J. E. Dahlberg .......................... 1271
- Benzodiazepine Receptor–Mediated Chemotaxis of Human Monocytes: M. R. Ruff et al. .......................... 1281

**COVER**

Flowers of Arabidopsis thaliana. Although only 2 millimeters in their largest dimension, the flowers of this diminutive member of the mustard family (Brassicaceae) are as structurally complex as the flowers of larger plants. A number of Arabidopsis mutations that result in specific alterations of floral morphology have been identified. See page 1214. [Elliott Meyerowitz, Division of Biology, California Institute of Technology, Pasadena 91125]
Science 229 (4719), 1145-1283.

ARTICLE TOOLS  http://science.sciencemag.org/content/229/4719.citation

PERMISSIONS  http://www.sciencemag.org/help/reprints-and-permissions

Use of this article is subject to the Terms of Service

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title Science is a registered trademark of AAAS.