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whether it might be possible for students of the subject to agree to focus on one experimental system, for it is impossible to subscribe to any view, as long as the evidence is in its current state.

A concerted attack on one of the presumed instructive systems might be in order. Some additional features of the development of the mammary gland make it an attractive target, especially its sensitivity to hormones. For example, in the male mouse the gland begins to regress at 13.5 days as a consequence of the secretion of androgens of the fetal testes. This regression is also observed in vitro when 13-day-old mammary gland rudiments are combined with 13-day-old testes. However, according to Kratochwil the regression of the epithelium requires its combination with homologous mesenchyme. Neither mouse mammary epithelium combined with salivary mesenchyme nor salivary, lung, or pancreatic epithelium combined with mammary mesenchyme respond to male hormone.

Other speakers, notably Elsdale (United Kingdom), Weston (United States), and Sachs (Israel), emphasized that even in clonal and other simplified experimental systems, phenotypic expression may be influenced by contact-mediated interactions between cells. For example, Elsdale described interactions between fibroblasts and epithelial cells in vitro which suggest that the acquisition of polarity by epithelial cells may serve to restrict the possibilities for morphogenesis in mixed epithelial-mesenchymal systems. Finally, Ringertz (Sweden) described evidence from model experiments with hen erythrocyte ghosts which suggested that chromatin activation may be triggered by changes in the state of the cell membrane. His observations, coupled with other evidence on the possible importance of association between chromosomes and the nuclear membrane on the one hand, and on the occurrence of nucleic acids in cell membranes on the other, may enable us to begin to understand how a cell's genome may be influenced by contact with another cell.

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26–31. American Soc. of Naturalists, Boston, Mass. (B. H. Judd, Dept. of Zoology, Univ. of Texas, Austin 78712)


26–31. Sigma Pi Sigma, Boston, Mass. (C. G. Shugart, Society of Physics Students, State Univ. of New York, Stony Brook 11790)


27–30. Western Soc. of Naturalists, Los Angeles, Calif. (D. H. Montgomery, Dept. of Biological Sciences, California State College, San Luis Obispo 93401)


January


8–13. Taxonomy and Biology of Blue-Green Algae, Madras, India. (T. S. Sadasivan, University Botany Lab., Madras 5)


12–14. Biological Effects of Carbon

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12–15. National Assoc. of Private Hospitals, 37th annual, Nassau, Bahamas. (M. Herman, Executive Secretary, NAPH, 353 Broad Ave., Leonia, N.J. 07605)
21–23. Instrumentation for the Process Industries Symp., College Station, Tex. (R. G. Anthony, Dept. of Chemical Engineering, Texas A & M Univ., College Station)
21–24. American Group Psychotherapy Assoc., New Orleans, La. (M. Schiff, Administrative Secretary, AGPA, Room 702, 1790 Broadway, New York 10019)
26–30. Federacion Odontologica de Centro America, Panama City, Panama. (R. Eiszem, Secretario del Exterior, FOCAP, P.O. Box 6406, Panama City 5)
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2–6. Automatic Control in Space, 3rd symp., Toulouse, France. (H. Desmotier, LASS, B.P. 4036, 31 Toulouse 04)


4–6. Fundamental Cancer Research, 24th annual symp., Houston, Tex. (F. Goff, Special Projects, M. D. Anderson Hospital and Tumor Inst., Univ. of Texas, Houston 77025)

4–6. Ophthalmology, 21st intern. congr., Mexico City, Mexico. (S. A. Zertuche, Apartado Postal, 35–523, Mexico City)

8–14. American Assoc. of Pathologists and Bacteriologists, 67th annual, St. Louis, Mo. (K. M. Brinkhous, Univ. of North Carolina School of Medicine, Chapel Hill)


11–13. Institute of Electrical and Electronics Engineers, Inc. Scintillation and Semiconductor Counter Symp., Washington, D.C. (The Institute, 345 E. 47 St., New York, N.Y.)

15–19. International Anesthesia Research Soc., 44th congr., Las Vegas, Nev. (Executive Secretary, IARS, 3645 Warrensville Center Rd., Cleveland, Ohio 44122)

15–19. Society of Toxicology, annual scientific mtg., Atlanta, Ga. (J. F. Borzelka, Dean of Pharmacology, Medical College of Virginia, Richmond 23219)

16–18. American Soc. of Mechanical Engineers, Plant Engineers and Maintenance, Fort Worth, Tex. (A. B. Conlin, 345 E. 47 St., New York 10017)


16–19. International Assoc. for Dental Research, 48th session, New York, N.Y. (A. R. Frechette, Executive Secretary, 211 East Chicago Ave., Chicago, Ill. 60611)

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Cytogenetics. Jean H. Priest, Leo and Feibiger, Philadelphia. 1969. xvi + 240 pp., illus. $7.50. Medical Technology Series.


Director of Pathology Training Programs 1970-1. Intersexency Committee on Pathology Information, Bethesda, Md. ed. 2. 1969. viii + 492 pp., illus. Paper, $7.50.


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For complete technical information, write: Biomation Corporation, 1070 East Meadow Circle, Palo Alto, California 94303. Or call (415) 321-9710.

In Europe: Data Laboratories, Mitcham, Surrey, England, 01-648, 4643/4.
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