

for specific forms of neoplasms but that do not induce inflammatory disease. However, congenital lymphocytic choriomeningitis can produce a viral carrier state in gnotobiotic offspring and appears to lead to overt degeneration, necrosis, and exfoliation of the epithelial cells of the intestinal villi. Germfree mice also proved more sensitive to Friend virus and responded with earlier development of pathological features such as hepatosplenomegaly. A similar reduced resistance was observed in studies of the intestinal pathology caused by Kilham virus in germfree rats.

The gnotobiotic is obviously suitable whenever the study of inflammatory processes requires separation of the microbial variable from the systemic response. The meeting provided an opportunity not only to further define and describe the function and metabolism of the gnotobiotic animal, but also to indicate many of the fields in which this tool can be used to elucidate the numerous facets of the inflammatory response.

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References

1. *Technology in Germfree and Gnotobiotic Life Research*, M. Miyakawa and B. S. Wostmann, Eds. (Academic Press of Japan, Tokyo, 1969).
2. B. S. Wostmann, "The germfree animal as a research tool," in *The Use of Drugs in Animal Feeds* (National Academy of Sciences, Washington, D.C., 1969), pp. 123-134.
3. Monoassociation describes the intentional association with a defined microbial species. See, "Gnotobiotics: Standards and Guidelines for the Breedings, Care, and Management of Laboratory Animals," *Nat. Acad. Sci.-Nat. Res. Council. Publ. No. ISBN0-309-01858-7* (1970).

Forthcoming Events

August

11-13. Automatic Control Joint Conf., St. Louis, Mo. (J. Lewis, Dept. of Electrical Engineering, Pennsylvania State Univ., University Park 16802)

12-17. American Podiatry Assoc., Denver, Colo. (Secretary, APA, 20 Chevy Chase Circle, NW, Washington, D.C. 20015)

12-3. Pacific Science Congr., 12th annual, Canberra, Australia. (A. Harvey, Australian Acad. of Science, Gordon St., Canberra City 2601)

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14. **Viruses of South American Nonhuman Primates**, Mexico City, Mexico. (L. V. Melendez, New England Primate Research Center, Harvard Medical School, Southboro, Mass. 01772)

14-16. **North American Mycological Assoc.**, Pellston, Mich. (Secretary, NAMA, 4245 Redinger Rd., Portsmouth, Ohio 45662)

15-18. **Drug Tolerance, Addiction, Abuse and Methadone Treatment**, intern. symp., New Orleans, La. (J. M. Singh, Xavier Univ. of Louisiana, 7325 Palmetto St., New Orleans 70125)

15-18. **Heat Transfer Conf.**, Tulsa, Okla. (A. S. Rathbun, Jr., Westinghouse Electric Corp., Bettis Atomic Power Div., P.O. Box 79, West Mifflin, Pa. 15122)

15-18. **Soil Conservation Soc. of America**, 26th annual, Columbus, Ohio. (H. W. Pritchard, SCSA, 7515 NE Ankeny Rd., Ankeny, Iowa 50021)

15-19. **American Phytopathological Soc.**, Philadelphia, Pa. (R. J. Green, Jr., Dept. of Botany and Plant Pathology, Purdue Univ., Lafayette, Ind. 47907)

15-20. **American Soc. of Agronomy**, New York, N.Y. (M. Stelly, ASA, 677 S. Segoe Rd., Madison, Wis. 53711)

16-18. **Marine Technology Soc.**, 7th annual, Washington, D.C. (R. W. Niblock, MTS, 1730 M St., NW, Washington, D.C. 20036)

16-18. **Midwestern Mechanics Conf.** 12th annual, Notre Dame, Ind. (A. A. Szewczyk, Dept. of Aerospace and Mechanical Engineering, Univ. of Notre Dame, Notre Dame 46556)

16-19. **American Physiological Soc.**, Fall mtg., Lawrence, Kan. (R. G. Dagg, APS, 9650 Rockville Pike, Bethesda, Md. 20014)

16-19. **Poultry Science Assoc.**, Fayetteville, Ark. (C. B. Ryan, Texas A&M Univ., College Station 77843)

16-19. **Australian Spectroscopy Conf.**, 8th intern., Clayton, Victoria. (J. E. Kent, Dept. of Chemistry, Monash Univ., Clayton)

16-20. **Information Technology, Computer Impact on Developing Countries**, Jerusalem Israel. (U. Galil, Elbit Computers Ltd., 86 Hagiborim St., Haifa, Israel)

16-20. **Symposium on Oaks**, Morgantown, W.Va. (D. White, Div. of Forestry, West Virginia Univ., Morgantown 26506)

16-20. **Packaging and Transportation of Radioactive Materials**, 3rd intern symp., Richland, Wash. (Secretary, U.S. Atomic Energy Commission, Washington, D.C. 20545)

16-25. **Cosmic Rays**, 12th intern. conf., Hobart, Australia. (Meetings Officer, Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

17-19. **Astrodynamics**, Fort Lauderdale, Fla. (J. M. Lewallen, Code ED13, NASA Manned Spacecraft Center, Houston, Tex. 77058)

17-20. **Illuminating Engineering Soc.**, Chicago, Ill. (P. C. Ringgold, IES, 345 E. 47 St., New York 10017)

17-20. **American Scientific Affiliation**, Spokane, Wash. (H. H. Hartzel, ASA, 324½ S. 2 St., Mankato, Minn. 56001)

17-21. **International Assoc. of Milk, Food and Environmental Sanitarians**, San

Diego, Calif. (H. L. Thomasson, P.O. Box 437, Shelbyville, Ind. 46176)

18-26. **Acoustics**, 7th intern. conf., Budapest, Hungary. (Secretary, Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

19-21. **Rocky Mountain Radiological Soc.**, Denver, Colo. (L. R. Wurtzbaach, RMRS, 4200 E. 9 Ave., Denver 80206)

22-24. **Biometric Soc.**, western North American regional, Fort Collins, Colo. (J. W. Kuzma, Dept. of Biostatistics, School of Public Health, Loma Linda Univ., Loma Linda, Calif. 92354)

22-25. **American Soc. of Heating, Refrigerating, and Air-Conditioning Engineers**, Washington, D.C. (A. T. Boggs, III, ASHRAE, 345 E. 47 St., New York 10017)

22-26. **American Soc. for Pharmacology and Experimental Therapeutics**, Burlington, Vt. (E. B. Cook, ASPET, 9650 Rockville Pike, Bethesda, Md. 30014)

22-26. **American Soc. of Plant Physiologists**, Pacific Grove, Calif. (W. H. Klein, Smithsonian Radiation Biology Lab., 12441 Parklawn Dr., Rockville, Md. 20852)

22-27. **American Soc. of Parasitologists**, Los Angeles, Calif. (D. V. Moore, Dept. of Microbiology, Univ. of Texas Southwestern Medical School, Dallas 75235)

23. **American Acad. of Medical Administrators**, 14th annual, Chicago, Ill. (N. Barber, AAMA, 6 Beacon Street, Boston, Mass. 02108)

23-25. **Genetics Soc. of America**, Rochester, N.Y. (M. W. Shaw, Dept. of Biology, M. D. Anderson Hospital and Tumor Inst., Houston, Tex. 77025)

23-26. **Biometric Soc.**, eastern North American regional, Fort Collins, Colo. (F. B. Cady, Jr., Dept. of Statistics, Univ. of Kentucky, Lexington 40506)

23-26. **American Hospital Assoc.**, 73rd annual, Chicago, Ill. (E. L. Crosby, AHA, 840 N. Lake Shore Dr., Chicago 60611)

23-26. **American Statistical Assoc.**, 131st annual, Fort Collins, Colo. (J. W. Lehman, ASA, 806 15th St., NW, Washington, D.C. 20005)

23-27. **Magnetic Resonance**, 4th intern. symp., Jerusalem, Israel. (D. Fiat, P.O. Box 26, Weizmann Inst. of Science, Rehovoth, Israel)

23-27. **Medical and Biological Engineering**, 9th intern. congr., Melbourne, Australia. (D. J. Dewhurst, Dept. of Physiology, Univ. of Melbourne, Parkville, 2052 Victoria, Australia)

23-27. **International Conf. on Statistical Properties of Nuclei**, Albany, N.Y. (J. B. Garg, Nuclear Accelerator Lab., State Univ. of New York at Albany, 1400 Washington Ave., Albany 12203)

24-27. **American Astronomical Soc.** Amherst, Mass. (H. M. Gurin, AAS, 211 Fitzrandolph Rd., Princeton, N.J. 08540)

25-27. **Geoscience Electronics**, 3rd intern. symp., Washington, D.C. (R. Bernstein, IBM Corp., 18100 Frederick Pike, Gaithersburg, Md. 20760)

25-27. **High Polymer Forum**, 16th annual, Waterloo, Ont. Canada. (D. J. Worsfold, Chemistry Div., National Research Council, Ottawa, Ont.)

25-27. **American Physical Soc.**, Seattle, Wash. (W. W. Havens, Jr., APS, 335 E. 45 St., New York 10017)