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The cross disciplinary nature of modern science and the concurrent tendency toward a high degree of specialization in research has made a necessity of the conference in which scientists from various disciplines with a need but infrequent opportunity to meet, can exchange ideas on a subject of common interest. This conference, sponsored by The Committee on Tissue Transplantation, was planned to promote investigation of certain cross-reacting antigens whose pervasive influence in nature entails the interests of just such a wide range of specialties. Subsequently it was expanded to include other relevant phenomena such as the neoantigens that appear following virus infection and the cancer specific antigens induced by clinical carcinogens.

Contents. **Preface** by John J. Trentin. **Scope and Significance of Antigenic Cross-reactivity** by Michael Heidelberger. Discussion by John L. Fahey, Geoffrey Haughton, D. A. L. Davies, M. H. Kaplan, R. D. Owen and G. F. Springer. **Biochemical Determinants of Bacterial Antigenicity** by Maelyn McCarty. Discussion by M. Heidelberger, R. D. Owen, S. B. Salvin, and P. Gold. **Heterologous Cross-reactions in Mammalian Transplantation** by Felix T. Rappaport. Discussion by R. E. Billingham, M. H. Kaplan, D. A. L. Davies, R. M. Chase, M. Heidelberger, A. S. Markowitz, and H. S. Lawrence. **The Relation of Microbes To Blood-group-active Substances** by G. F. Springer. Discussion by J. J. Trentin and D. A. L. Davies. **Multiple Nature of the Cross-reactive Relationship Between Antigens of Group A Streptococci and Mammalian Tissue** by Melvin H. Kaplan. Discussion by R. B. Herberman and E. H. Freimer. **Reactions Between Some Anti-Microbial Sera and Mouse Erythrocytes** by C. A. Stetson, Jr. and Barbara Esko. Discussion by D. A. L. Davies and G. F. Springer. **Microbial Parasitism and Altered Histocompatibility Antigens.** by H. Sherwood Lawrence. **Virus-specific Antigens in Viral Tumors** By Wallace P. Rowe. Discussion by M. Green, J. J. Trentin, D. A. L. Davies, K. Habel, V. Defendi, A. S. Kaplan and M. A. Fink. **Alteration in Immunologic Specificity of Cells Infected with Cytolytic Viruses** by Bernard Roizman and Susan B. Spring. Discussion by V. Defendi and J. J. Trentin. **The Cross-reactions of Primate Tissue Antigens with Human Leukocyte Isoantibodies** by R. S. Metzgar, H. F. Seigler and C. M. Zmijewski. **The Significance of Tumor-distinctive Histocompatibility Antigens** by R. T. Prehn. Discussion by E. J. Breyere, J. J. Trentin, P. Gold, V. Defendi and K. Habel. **Summation of Conference** by Maelyn McCarty. **Index.**

Edited by John J. Trentin, Ph.D. Professor and Head, Division of Experimental Biology, Baylor University College of Medicine, Texas Medical Center, Houston, Texas.

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- * Virus isolated from blood of volunteers with icteric hepatitis (injected with NIH icterogenic plasma pool No. 6) in tissue culture was adsorbed on latex particles to form a reagent for detecting agglutinins in hepatitis sera.^{3, 4, 5, 6, 8, 9} Testing sera of the original volunteers, agglutinin was absent before injection, titered 1:10 or more 14 days after injection and 1:40 or more during convalescence. Agglutinin was demonstrated in 100% of 81 cases of acute viral hepatitis, 100% of 60 cases of infectious mononucleosis, 20% of 20,000 blood donors. Virus which reacted with serum agglutinin was isolated from 15 sera, from 4 stools and from liver in 3 of 81 cases of hepatitis. One isolate was from the liver of a 3-year-old child who died of hepatitis but also met all hematologic criteria of infectious mononucleosis.⁷ Infectious mononucleosis agglutinin was not removed by guinea pig kidney, completely removed by bovine erythrocytes; hepatitis agglutinin partially removed by guinea pig kidney, completely removed by sheep or bovine erythrocytes. This virus, and an IH virus from the liver of a fatal case, now maintained in tissue culture for four years, are serologically identical with isolates from volunteers.

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