

INFECTION AND IMMUNITY

Volume 40

Contents for June 1983

No. 3

Microbial Infections

- Comparison of the Immunogenicity of Vaccines Prepared from Viable *Mycobacterium bovis* BCG, Heat-Killed *Mycobacterium leprae*, and a Mixture of the Two for Normal and *M. leprae*-Tolerant Mice. CHARLES C. SHEPARD,* ROSALIND M. VAN LANDINGHAM, LAURA L. WALKER, AND SHUN-ZHANG YE. . . . 1096-1103
- Course of Infection and Development of Immunity in Experimental Infection of Mice with *Listeria* Serotypes. CARL HEINZ WIRSING VON KOENIG, BERNO HEYMER, HERBERT HOF, AND HORST FINGER* 1170-1177

Viral Infections and Immunity

- Serotypes of Bovine Rotaviruses Distinguished by Serum Neutralization. YOSUKE MURAKAMI,* NOBUYOSHI NISHIOKA, YUJI HASHIGUCHI, AND CHIKARA KUNIYASU. 851-855
- Interaction of Viral Envelope Glycoproteins with Fibronectin. ILKKA JULKUNEN,* AARNO HAUTANEN, AND JORMA KESKI-OJA 876-881
- T and B Lymphocyte Susceptibility to Murine Leukemia Virus Mo-loyey. DALE D. ISAAK* AND JAN CERNY. 977-984
- Pathogenesis and Immune Response of Vaccinated and Unvaccinated Rhesus Monkeys to Tick-Borne Encephalitis Virus. PETER HAMBLETON,* JOHN R. STEPHENSON, ARTHUR BASKERVILLE, AND CHRISTOPHER N. WIBLIN 995-1003
- Dose Response of A/Alaska/6/77 (H3N2) Cold-Adapted Reassortant Vaccine Virus in Adult Volunteers: Role of Local Antibody in Resistance to Infection with Vaccine Virus. MARY LOU CLEMENTS,* SYLVIA O'DONNELL, MYRON M. LEVINE, ROBERT M. CHANOCK, AND BRIAN R. MURPHY 1044-1051
- Secretory Immunological Response After Intranasal Inactivated Influenza A Virus Vaccinations: Evidence for Immunoglobulin A Memory. PETER F. WRIGHT,* BRIAN R. MURPHY, MARIJA KERVINA, EILEEN M. LAWRENCE, MICHAEL A. PHELAN, AND DAVID T. KARZON 1092-1095
- Mouse Hepatitis Virus Type 4 Infection of Primary Glial Cultures from Genetically Susceptible and Resistant Mice. ARLENE R. COLLINS, LINDA A. TUNISON, AND ROBERT L. KNOBLER* 1192-1197
- Elevated Antibody Levels Against Measles Virus P Protein in Sera of Patients with Multiple Sclerosis. STEVEN L. WECHSLER* AND H. CODY MEISSNER 1226-1229

Oral Microbiology and Immunity

- Lack of Antibodies to Human Heart Tissue in Sera of Rhesus Monkeys Immunized with *Streptococcus mutans* Antigens and Comparative Study with Rabbit Antisera. LESLEY A. BERGMEIER AND T. LEHNER* 1075-1082

Continued on following page

Continued from preceding page

Polyclonal Activation of Human Peripheral Blood B Lymphocytes by <i>Fusobacterium nucleatum</i> . DENNIS F. MANGAN* AND DENNIS E. LOPATIN	1104-1111
Binding of Todd-Hewitt Broth Antigens by <i>Streptococcus mutants</i> . MURRAY W. STINSON* AND CRAIG A. JONES.....	1140-1145
Protoplast Formation and Localization of Enzymes in <i>Streptococcus mitis</i> . LARS LINDER,* CARITA ANDERSSON, MARIE-LOUISE SUND, AND GERALD D. SHOCKMAN.....	1146-1154
Coaggregation of Human Oral <i>Cytophaga</i> Species and <i>Actinomyces israelii</i> . PAUL E. KOLENBRANDER* AND ROGER A. CELESK	1178-1185
Common Antigens of Streptococcal and Nonstreptococcal Oral Bacteria: Characterization of Wall-Associated Protein and Comparison with Extracellular Protein Antigen. MARIE SCHÖLLER,* JEAN PAUL KLEIN, PASCAL SOMMER, AND ROBERT FRANK	1186-1191
A Factor from <i>Actinomyces viscosus</i> T14V that Specifically Aggregates <i>Streptococcus sanguis</i> H1. JUNN MIZUNO, JOHN O. CISAR, ALBERT E. VATTER, PAUL V. FENNESSEY, AND FLOYD C. MCINTIRE*.....	1204-1213

Pathogenic Mechanisms

Fimbria-Specific Antibodies Detach <i>Escherichia coli</i> from Human Cells. H. METT,* L. KLOETZLEN, AND K. VOSBECK	862-868
Adherence and Ingestion of <i>Escherichia coli</i> Serotype 055 by Trophozoites of <i>Entamoeba histolytica</i> . RIVKA BRACHA AND DAVID MIRELMAN*.....	882-887
Resistance of O-Acetylated Gonococcal Peptidoglycan to Human Peptidoglycan-Degrading Enzymes. R. S. ROSENTHAL,* W. J. FOLKENING, D. R. MILLER, AND S. C. SWIM.....	903-911
Effect of Anaerobic Bacteria on Killing of <i>Proteus mirabilis</i> by Human Polymorphonuclear Leukocytes. FERRY NAMAVAR,* A. MARIAN J. J. VERWEIJ, MARTIN BAL, T. J. MARTIJN VAN STEENBERGEN. JOHANNES DE GRAAFF. AND DAVID M. MACLAREN	930-935
Sequence of the Amino-Terminal Part of Enterotoxin from <i>Clostridium perfringens</i> Type A: Identification of Points of Trypsin Activation. MICHAEL RICHARDSON AND PER EINAR GRANUM*	943-949
Influence of Preformed Antibody on the Pathogenesis of Experimental <i>Candida albicans</i> Endocarditis. W. MICHAEL SCHELD,* RICHARD A. CALDERONE, JAMES P. BRODEUR, AND MERLE A. SANDE	950-955
Isolation and Characterization of Macrophage Phagosomes Containing Infectious and Heat-Inactivated <i>Chlamydia psittaci</i> : Two Phagosomes with Different Intracellular Behaviors. STEVEN L. ZEICHNER.....	956-966
Broad Geographical Distribution of a Cytotoxin Gene Mediating Beta-Hemolysis and Bacteriocin Activity Among <i>Streptococcus faecalis</i> Strains. DONALD J. LEBLANC,* LINDA N. LEE, DON B. CLEWELL, AND DETLEV BEHNKE.....	1015-1022

Continued on following page

Continued from preceding page

Production of Staphylococcal Enterotoxin F and Pyrogenic Exotoxin C by <i>Staphylococcus aureus</i> Isolates from Toxic Shock Syndrome-Associated Sources. PETER F. BONVENTRE,* LANA WECKBACH, JOSEPH STANECK, PATRICK M. SCHLIEVERT, AND MICHAEL THOMPSON	1023-1029
Two Inhibitors of Neutrophil Chemotaxis Are Produced by Hyperimmunoglobulin E Recurrent Infection Syndrome Mononuclear Cells Exposed to Heat-Killed Staphylococci. HAIG DONABEDIAN AND JOHN I. GALLIN*	1030-1037
Influence of Lectins, Hexoses, and Neuraminidase on the Association of Purified Elementary Bodies of <i>Chlamydia trachomatis</i> UW-31 with HeLa Cells. SUBIR K. BOSE,* GEOFFREY B. SMITH, AND ROBERT G. PAUL	1060-1067
Comparison of Proteins Synthesized by Two Different Isolates of <i>Anaplasma marginale</i> . ANTHONY F. BARBET, LAWRENCE W. ANDERSON,* GUY H. PALMER, AND TRAVIS C. MCGUIRE	1068-1074
<i>Vibrio</i> Factors Cause Rapid Fluid Accumulation in Suckling Mice. M. NISHIBUCHI, R. J. SEIDLER,* D. M. ROLLINS, AND S. W. JOSEPH	1083-1091
Hydroxamate Siderophore Production by Opportunistic and Systemic Fungal Pathogens. MARK HOLZBERG AND WILLIAM M. ARTIS*	1134-1139
Lysosomal Response of a Murine Macrophage-Like Cell Line Persistently Infected with <i>Coxiella burnetii</i> . EMMANUEL T. AKPORIAYE, JAMES D. ROWATT, ADAM A. ARAGON, AND OSWALD G. BACA*	1155-1162
Induction of a Novel Morphological Response in Chinese Hamster Ovary Cells by Pertussis Toxin. ERIK L. HEWLETT,* KAREN T. SAUER, GWENDOLYN A. MYERS, JAMES L. COWELL, AND RICHARD L. GUERRANT	1198-1203
Cytopathogenicity of <i>Naegleria fowleri</i> for Rat Neuroblastoma Cell Cultures: Scanning Electron Microscopy Study. FRANCINE MARCIANO-CABRAL,* AND DAVID T. JOHN	1214-1217
A BALB/c Congenic Strain of Mice That Carries a Genetic Locus (<i>Ity</i>) Controlling Resistance to Intracellular Parasites. MICHAEL POTTER,* ALISON D. O'BRIEN, EMIL SKAMENE, PHILIPPE GROS, ADRIEN FORGET, PATRICIA A. L. KONGSHAVN, AND JUDITH S. WAX	1234-1235
Plasmids That Code for Production of Colonization Factor Antigen II and Enterotoxin Production in Strains of <i>Escherichia coli</i> . HENRY R. SMITH,* SYLVIA M. SCOTLAND, AND BERNARD ROWE	1236-1239
Cytoplasmic Distinction of Avirulent and Virulent <i>Rickettsia prowazekii</i> : Fusion of Infected Fibroblasts with Macrophage-Like Cells. HERBERT H. WINKLER* AND ROBIN M. DAUGHERTY	1245-1247

Immunology

Immunogenic Properties in Mice of Hexasaccharide from the Capsular Polysaccharide of <i>Streptococcus pneumoniae</i> Type 3. HARM SNIPPE,* AREND-JAN VAN HOUTE, JAN E. G. VAN DAM, MARINUS J. DE REUVER, MARGRIET JANSZE, AND JAN M. N. WILLERS	856-861
---	---------

Continued on following page

Continued from preceding page

Natural Killer Activity in Mice Infected with <i>Trypanosoma musculi</i> . JULIA W. ALBRIGHT,* KUN-YEN HUANG, AND JOSEPH F. ALBRIGHT	869-875
Protection in Rabbits Immunized with a Vaccine of <i>Escherichia coli</i> Heat-Stable Toxin Cross-Linked to the Heat-Labile Toxin B Subunit. FREDERICK A. KLIPSTEIN,* RICHARD F. ENGERT, AND RICHARD A. HOUGHTEN	888-893
Antibody Responses Induced by Immunization of Inbred Mice Susceptible and Resistant to African Trypanosomes. LESLIE A. MITCHELL AND TERRY W. PEARSON*	894-902
Inbred Mouse Strains Differ in Resistance to Lethal <i>Coccidioides immitis</i> Infection. THEO N. KIRKLAND AND JOSHUA FIERER*	912-916
Effect of Erythrocyte Ingestion on Macrophage Antibacterial Function. W. LEE HAND* AND NEVA L. KING-THOMPSON	917-923
Protection Against Human and Porcine Enterotoxigenic Strains of <i>Escherichia coli</i> in Rats Immunized with a Cross-Linked Toxoid Vaccine. FREDERICK A. KLIPSTEIN,* RICHARD F. ENGERT, JOHN D. CLEMENTS, AND RICHARD A. HOUGHTEN	924-929
Murine Encephalitozoonosis Model for Studying the Host-Parasite Relationship of a Chronic Infection. ELIZABETH C. SCHMIDT AND JOHN A. SHADDUCK*	936-942
Inhibition of Neutrophil Function by Fluid Phase C3b of Complement. JAMES D. OGLE,* CORA K. OGLE, AND J. WESLEY ALEXANDER	967-976
Splenic Requirement for Antigenic Variation and Expression of the Variant Antigen on the Erythrocyte Membrane in Cloned <i>Plasmodium knowlesi</i> Malaria. JOHN W. BARNWELL,* RUSSELL J. HOWARD, HAYDEN G. COON, AND LOUIS H. MILLER	985-994
Synovial Fluid Inhibits Killing of <i>Staphylococcus aureus</i> by Neutrophils. GARY L. SIMON,* HEATHER G. MILLER, AND DAVID G. BORENSTEIN	1004-1010
Steroids Inhibit Activation of the Alternative-Amplification Pathway of Complement. BRUCE D. PACKARD AND JOHN M. WEILER*	1011-1014
Immunogenicity of Soluble and Particulate Antigens from <i>Leishmania donovani</i> : Effect of Glucan as an Adjuvant. JAMES A. COOK* AND THOMAS W. HOLBROOK	1038-1043
Cellular Immunity in a Cutaneous Model of Cryptococcosis. JUDITH E. DOMER,* FRANK L. LYON, AND JUNEANN W. MURPHY	1052-1059
Procholeragenoid: A Safe and Effective Antigen for Oral Immunization Against Experimental Cholera. NATHANIEL F. PIERCE,* WILLIAM C. CRAY, JR., JOHN B. SACCI, JR., JOHN P. CRAIG, RENÉ GERMANIER, AND EMIL FÜRER	1112-1118
Mechanism of Immunosuppression in Leprosy: Presence of Suppressor Factor(s) from Macrophages of Lepromatous Patients. PADMINI R. SALGAME, P. R. MAHADEVAN,* AND NOSHIR H. ANTIA	1119-1126
Effect of Splenectomy on <i>Trypanosoma lewisi</i> Infection in Young Rats. MARTA LLENDE,* EDUARDO A. SANTIAGO-DELPÍN, AND JULIO A. LAVERGNE	1127-1133
Synthesis and Biological Assays of Peptides from a Tuberculin-Active Protein. JAROSLAV ŠAVRDA	1163-1169

Continued on following page

Continued from preceding page

Immunoglobulin and Complement in Tissues of Mice Infected with <i>Nocardia brasiliensis</i> . CARMEN CONDE, RAUL MANCILLA, MAGDALENA FRESAN, AND LIBRADO ORTIZ-ORTIZ*	1218-1222
Cross-Resistance to Fecal Excretion of <i>Yersinia enterocolitica</i> in Mice by Oral Vaccination of Killed Cells. KEN-ICHI KANEKO* AND NOBUO HASHIMOTO	1223-1225
Arachidonic Acid Metabolism in Polymorphonuclear Leukocytes from Patients with Chronic Granulomatous Disease. DUANE M. SMITH,* CHRISTOPHER E. WALSH, LAWRENCE R. DECHATELET, AND MOSELEY WAITE	1230-1233
Host Defenses in Murine Malaria: Characteristics of Protracted States of Immunity to <i>Plasmodium berghei</i> . JAMES R. MURPHY	1240-1244

Errata

Delayed Hypersensitivity to Nonviable <i>Mycoplasma pulmonis</i> in Mice Is Enhanced by Dextran Sulfate. MASATO KISHIMA, CHIKARA KUNYASU, AND MASARO NAKAGAWA	1248
Outer Membrane Characteristics of <i>Campylobacter jejuni</i> . SUSAN M. LOGAN AND TREVOR J. TRUST	1248
Role of Adherence in the Pathogenesis of Neonatal Group B Streptococcal Infection. ROBERT A. BROUGHTON AND CAROL J. BAKER	1248

* Asterisk refers to person to whom inquiries regarding the paper should be addressed.