INDEX

Adler, F. L., 69, 79

Adrenalectomy, effect of and administration of cortisone in rats and rabbits, 199

-, ---, on responses in rabbit following injections of proteins, 441

-, effect of, on phagocytic activity, 454

Adrenocorticotropic hormone, effect of, on responses in rabbit following injections of proteins, 441

Albumin, immunological relationship between human and bovine serum, 125

Alpha toxin separation from filtrates of Clostridium welchii, 533

Altered reactivity of mice after immunization with H. pertussis vaccine, 411

Analysis of difference between destructive and vaccine strain of NDV in chick embryo, 538

Anaphylactic reactions and concentrations of antibody in rats and rabbits: Adrenalectomy and administration of cortisone, 199

Antibiotic-producing ocular bacterial flora, 400 Antibiotics, relation of to immunity to infection,

Antibiotic therapy in mice with chronic brucella infection, 31

Antibodies, complement fixing, against coxsackie viruses in mice, 484

Antibody, concentration of in rats and rabbits: Adrenalectomy and administration of cortisone, 199

-, fecal, and immunization with adjuvant, 359

- formation by haemopoietic organs after immunization, 129

-- in rats receiving X-irradiation, effects of spleen shielding on, 379

- -, local, effect of cortisone on, 450

inhibition of bactericidal reaction, 79

- precipitation, effect of complement in rabbit serum on, 435

- production and tuberculin sensitivity in individuals with history of rheumatic fever, 493

— in acute viral hepatitis, 21

- - mice, 61

Antibodies, effect of electron bursts on, 366 Antigen-antibody complex, molecular weight of, 372

- precipitates in solid medium with influenza virus, 321

- reactions, effects of sodium salicylate on, 141 Antigen, characterization of for detection of cutaneous hypersensitivity in brucellosis, 152

-, effect of complement in rabbit serum on, 435

- excess zone, use of, to reveal cross reactions in antigens, 317

Antigen in skin of rabbits as determined with egg albumin, 345

Antigenic variation of influenza B, demonstration of antigenic spectrum by titer ratios, 393

Antigens in scarlatinal erythrogenic toxin demonstrable by Oudin technic, 181

-, use of antigen excess zone to reveal cross reactions in, 317

Antiserum and purified protein with homologous antigen produces white cell lysis, 331

Bactericidal action of normal sera against S. typhosa, 69

reaction, 69, 79

Baker, E. E. See Formal and Baker, 260 Bang, F. B. See Liu and Bang, 538 Becker, E. L., 372

Bell, E. J. and Pickens, E. G., 461 Benedict, A. A. and Elberg, S. S., 152, 165

Berg, D. See Kabat and Berg, 514 Bernal, E. See Fong and Bernal, 89, 97

Bernheimer, A. W. and Farkas, M. E., 197

Bio-Assay of tetanus toxoids in mice, guinea pigs and humans, 426

Bowen, H. E. and Wyman, L., 235 Branham, S. E., Dack, G. M. and Riggs, D. B., 103

Brasch, A. See Traub, Brasch and Huber, 366 Brucella infection, evaluation of antibiotic therapy in mice, 31

Brucellosis, cutaneous hypersensitivity in, 152, 165 Bugher, J. C. See Hahn and Bugher, 352

Chang, S., 212

—, Snyder, J. C. and Murray, E. S., 215 Chanock, R. M. and Sabin, A. B., 271, 286, 302

Characteristics of antibiotic-producing ocular bacterial flora, 400

Characterization of antigen for detection of cutaneous hypersensitivity in brucellosis, 152 Chen, T. H. See Walker et al., 245

Christensen, P. A. and Finney, D. J., 7

Chromatographic studies on brucellosis skin-test antigen, 165

Clostridium welchii, separation of alpha toxin from, 533

Cobra venom standardization, 7 Code, C. F. See Dews and Code, 199

Cohn, M., 317

-, -. See Wetter, Cohn, and Deutsch, 507 Complement, effect of, in rabbit serum on quantitative precipitin reaction, 435

fixing antibodies against Coxsackie viruses in mice, 484

- antigens to Coxsackie virus, development of, in mice, 473
- in rabbit serum and quantitative precipitin reaction, 135

Complements, conglutinating activity of, 497 Components in conglutinating activities of complements, 497

Conglutinating activities of complements, components concerned in, 497

Contreras, G. and Melnick, J. L., 473, 484

Cortisone, effect of adrenalectomy and, in rats and rabbits, 199

- -, -, on local antibody formation, 450
- -, -, -, responses in rabbit following injections of proteins, 441

Coxsackie viruses in mice, complement fixing antibodies against, 484

----, growth curves of, 473

Cross reactions between Shigella flexneri types, 260

— in antigens, use of antigen excess zone to reveal, 317

Cutaneous hypersensitivity in brucellosis, 152, 165

Dack, G. M. See Branham, Dack and Riggs, 103Deutsch, H. F. See Wetter, Cohn and Deutsch, 507

Dews, P. B. and Code, C. F., 199

Dextran-antigen in man, 514

Dichlorophenoxy thiouracil and thiosemicarbazones on multiplication of variola-vaccinia virus in the brain of mouse, 222

Dickie, H. A. See Quinn, Seastone and Dickie, 493 Dodd, M. C. See Korngold et al., 345

Donaldson, D. M. See Esplin, Marcus and Donaldson, 454

Effect of complement in rabbit serum on quantitative precipitin reaction, 135, 435

- — cortisone on local antibody formation, 450
- --- electron bursts on antibodies, 366
- heterocyclic and thiosemicarbazones on vaccinia infection in mouse, 229
- thiosemicarbazones and dichlorophenoxy thiouracil on multiplication of variola-vaccinia virus in the brain of the mouse, 222

Effects of formalin on serological activity of Crustacean and Mammalian sera, 386

- sodium salicylate on antigen-antibody reactions, 141
- spleen shielding on antibody formation in rats receiving X-irradiation, 379
- X-irradiation and adrenalectomy on phagocytic activity, 454

Efficacy of intracutaneous injection and susceptibility of guinea pigs in allergic encephalitis, 326

Egg white proteins, immunological study of various species, 507

Eichman, P. L., Miller, R. W. and Havens, Jr., W. P., 21

Elbert, S. S. See Benedict and Elberg, 152, 165 Electron bursts on antibodies, effect of, 366 Encaphalitic efficacy of intracutaneous injection

Encephalitis, efficacy of intracutaneous injection and susceptibility of guinea pigs in, 326

Encephalomyelitis virus, murine, infectivity and hemagglutinin, 39

Erythrocyte-sensitizing substance from typhus rickettsiae, 212, 215

Esplin, D. W., Mareus, S. and Donaldson, D. M., 454

Evaluation of antibiotic therapy in mice with chronic brucella infection, 31

Experimental hypersensitivity in rabbits, effect of adrenal cortex, 441

Farkas, M. E. See Bernheimer and Farkas, 197 Fink, M. A. and Quinn, V. A., 61

Finney, D. J. See Christensen and Finney, 7

Fitch, F. See Wissler et al., 379

Fong, J. and Bernal, E., 89, 97

Formal, S. B. and Baker, E. E., 260

Formalin, effects of, on sera, 386

Formation of particles of influenza virus, 187

Foster, L. E. See Walker et al., 245

Fractional dilution for titration of hemagglutinating viruses and antibodies, 253

Francis, Jr., T. See Jensen and Francis, Jr., 321 Freund, J. See Lipton and Freund, 326 Friend, C., 141

Fungi, hemagglutinins among, 197

Gaulitz, D. See Waksman and Gaulitz, 331 Gaylin, S. G. See Jordan, Jr. and Gaylin, 393 Gott, C. L. See Wynne et al., 207

Growth curves of Coxsackie viruses in mice, including development of complement fixing antigens, 473

Guinea pigs, efficacy of intracutaneous injection and susceptibility in allergic encephalitis, 326

Haemopoietic organs, antibody formation after immunization, 129

Hahn, R. G. and Bugher, J. C., 352

Halbert, S. P., Swick, L. and Sonn, C., 400

Hamsters, suckling, pathogenicity of mumps virus on intracerebral inoculation, 147

Havens, Jr., W. P. See Eichman, Miller and Havens, Jr., 21

Hawn, C. V. Z. See Moll and Hawn, 441

Hayes, S. P., 450

Helminth relations serological study of, 503 Hemagglutinating viruses, titration by fractional dilution, 253

Hemagglutination-inhibition for diagnosis of infection, 302

Hemagglutinin of murine encephalomyelitis virus, 39

— St. Louis encephalitis virus, 271, 286, 302
—, recovery of from brains of infected mice, 271
Hemagglutinins among higher fungi, 197
Hemophilus pertussis vaccine, reactivity of mice

after immunization, 411

Hepatitis, viral, antibody production in, 21 Herpes simplex virus in tissue culture fibroblasts, 51

Histoplasma capsulatum, immunization of mice against, 267

Hitchings, G. H. See Thompson et al., 229 Horsfall, Jr., F. L. and Tamm, I., 253 Huber, W. See Traub, Brasch and Huber, 366

Immune and normal rabbits, retention of antigen in skin, 345

Immunity, relation of antibiotics to, 115

--, -- incubation period and secondary immune response, 421

Immunization against plague in mice and guinea pigs, 245

- of mice against Histoplasma capsulatum, 267

— with adjuvant and fecal antibody, 359

Immunological reactions in monkeys to toxins of Shigella dysenteriae, 103

 relationship between human and bovine serum albumin, 125

- studies of egg white proteins, 507

Incubation period and secondary immune response to lasting immunity to infectious disease, relation of, 421

Influenza A, in vitro action of mustards on, 89, 97

— B, antigenic variation of by use of titer ratios,

 virus, antigen-antibody precipitates in solid medium with, 321

----, formation of particle of, 187

--- in tissue culture fibroblasts, 51

Inhibition of bactericidal reaction by antibody, 79 Inhibitor, properties of; hemagglutination-inhibition for diagnosis of infection, 302

Intracutaneous injection and susceptibility of guinea pigs in allergic encephalitis, 326

In vitro action of mustards on influenza A, 89

Ipsen, Jr., 171, 426

Isolation and titration of erythrocyte sensitizing substance, 212

Jacobson, L. O. See Wissler et al., 379 Jennings, R. K., 181 Jensen, K. E. and Francis, Jr., T., 321 Jordan, Jr., W. S. and Gaylin, S. G., 393

Kabat, E. A. and Berg, D., 514 Kaplan, D. See Koch and Kaplan, 1 Keuning, F. J. See Thorbecke and Keuning, 129 Kilham, L. and Overman, J. R., 147 Kind, L. S., 411

Koch, W. and Kaplan, D., 1

Korngold, L., Stahly, G. L., Dodd, M. C. and Myers, W. G., 345

Koshland, M. E., 359

Kucera, C. J. See Shaffer, Kucera and Spink, 31

Lack of agreement of constant toxin and constant antitoxin flocculation reactions of diphtheria toxin, 235

Larson, A. See Walker et al., 245

Leone, C. A., 386

Lipton, M. M. and Freund, J., 326

Liu, C. and Bang, F. B., 538

MacLeod, C. M., 421

Marcus, S. See Esplin, Marcus and Donaldson, 454 Masouredis, S. P. See Melcher, Masouredis and Reed, 125

Maurer, P. H. and Talmage, D. W., 135, 435

Mayer, K. F. See Walker et al., 245

Mehl, D. A. See Wynne et al., 207

Melcher, L. R., Masouredis, S. P. and Reed, R., 125

Melnick, J. L. See Contreras and Melnick, 473, 484 Mice, antibody production in, 61

Miller, H. See Terzian, Stahler and Miller, 115 Miller, R. W. See Eichman, Miller and Havens, Jr., 21

Minton, Jr., S. A., Officer, J. E. and Thompson, R. L., 222

-. See Thompson et al., 229

Molecular weight of antigen-antibody complex, 372

Moll, F. C. and Hawn, C. V. Z., 441

Monkeys, immunological reactions to toxins of Shigella dysenteriae, 103

Morris, M. C., 39

Mumps virus, pathogenicity for suckling hamsters, 147

Murray, E. S. See Chang, Snyder and Murray, 215 Mustards, in vitro action on influenza A, 89, 97 Mustard, sulfur, in vitro action of, on influenza A virus, 97

Myers, W. G. See Korngold et al., 345

Nelson, W. See Wissler et al., 379

New castle disease virus in chick embryo, difference between destructive and vaccine strains of, 538

Non-Precipitating antibody, role of, in white cell lysis, 331

Normal and immune rabbits, retention of antigen in skin, 345

Norman, J. O. See Wynne et al., 207

Ocular bacterial flora, characteristics of antibiotic-producing, 400

Officer, J. R. See Thompson et al., 229

Officer, S. A. See Minton, Jr., Officer and Thompson, 222

Origin of fecal antibody and immunization with adjuvant, 359

Oudin technic, antigens demonstrable by, 181 Overman, J. R. See Kilham and Overman, 147

Pasteurella pestis, avirulent, in mice and guinea pigs, 245

Pathogenicity of mumps virus for suckling hamsters on intracerebral inoculation, 147

Phagocytic activity, effects of x-irradiation and adrenalectomy, 454

Physico-chemical properties of hemagglutinin and reaction with erythrocytes, 286

Pickens, E. G. See Bell and Pickens, 461

Pillemer, L. See Roth and Pillemer, 533

Plague, immunization against, 245

Potency assay of alum-precipitated tetanus toxoid in mice, 171

Precipitin reaction, effect of complement in rabbit serum on, 135, 435

Precision of potency assay of alum-precipitated tetanus toxoid in mice, 171

Production of antibody by patients with acute viral hepatitis, 21

Properties of normal hemagglutinin inhibitors and specific antibody, 302

Quantitative studies of cross reactions between Shigella flexneri, 260

Quinn, R. W., Seastone, C. V. and Dickie, H. A., 493

Quinn, V. A. See Fink and Quinn, 61

Reaction with erythrocytes and physico-chemical properties of hemagglutinin, 286

Recovery of hemagglutinin from brains of infected mice, 271

Reed, R. See Melcher, Masouredis and Reed, 125 Relation between infectivity and hemagglutinin of murine encephalomyelitis virus, 39

- of antibiotics to immunity to infection, 115

—— incubation period and secondary response to lasting immunity to infectious diseases, 421

Responses in rabbit following injections of proteins, effect of adrenal cortex, 441

Retention of antigen in skin of immune and normal rabbits, 345

Rheumatic fever, antibody production and tuberculin sensitivity in individuals with history of, 493

Rice, C. E., 497

Rickettsias of spotted fever, toxic substance associated with, 461

Riggs, D. A. See Branham, Dack and Riggs, 103 Robson, M. J. See Wissler et al., 379

Roth, F. B. and Pillemer, L., 533

Sabin, A. B. See Chanock and Sabin, 271, 286, 302 Salmonella typhosa, bactericidal action of normal sera against, 69

Salvin, S. B., 267

Scarletinal toxin, antigens in, 181

Schapira, R. See Stulberg and Schapira, 51

Seastone, C. V. See Quinn, Seastone and Dickie, 493

Secondary immune response and incubation period relationship to lasting immunity, 421

Sera, crustacean and mammalian, effects of formalin on, 386

-, normal, bactericidal action of, 69

Serological properties of erythrocyte sensitizing substance, 215

- studies with vibrio metschnikovii, 207

- study of helminth relations, 503

Shaffer, J. M., Kucera, C. J. and Spink, W. W., 31 Shigella dysenteriae, immunological reactions in monkeys to toxins of, 103

- flexneri, cross-reactions between, 260

Simple method for obtaining highly potent tetanus toxin, 1

Skin-test antigen (brucellosis), chromatographic studies on, 165

Snyder, J. C. See Chang, Snyder and Murray, 215 Sodium salicylate, effects of on antigen antibody reactions, 141

Sonn, C. See Halbert, Swick and Sonn, 400

Spink, W. W. See Shaffer, Kucera and Spink, 31 Spleen shielding on antibody formation in rats receiving X-Irradiation, 379

Spotted fever, toxic substance associated with Rickettsias of, 461

Stability of chick embryo yellow fever vaccine during storage, 352

Stahler, N. See Terzian, Stahler and Miller, 115

Stahly, G. L. See Korngold et al., 345

Standardization of cobra venom, 7

Stulberg, C. S. and Schapira, R., 51

Swick, L. See Halbert, Swick and Sonn, 400

Talmage, D. W. See Maurer and Talmage, 135, 435

Tamm, I. See Horsfall, Jr. and Tamm, 253

Terzian, L. A., Stahler, N. and Miller, H., 115Tetanus toxin, method for obtaining highly potent, 1

- toxoid in mice, potency assay of, 171

 toxoids, bio-assay of, in mice, guinea pigs, and humans, 426

Thiosemicarbazones and dichlorophenoxy thiouracil on multiplication of variola-vaccinia virus in the brain of the mouse, 222

—, effect of, on vaccinia infection in mouse, 229 Thompson, R. L., Minton, Jr., S. A., Officer, J. E. and Hitchings, G. H., 229

-. See Minton, Jr., Officer and Thompson, 222

Thorbecke, G. J. and Keuning, F. J., 129 Tissue culture fibroblasts, virus growth in, 51 Titer ratios, use of, to demonstrate antigenic variation in Influenza B, 393

Titration of hemagglutinating viruses, 253
Toxic substance associated with rickettsias of spotted fever group, 461

Toxins of Shigella dysenteriae, reactions in monkeys, 103

Traub, F. B., Brash, A. and Huber, W., 366
Tuberculin sensitivity and antibody production in individuals with history of rheumatic fever, 493

Typhus rickettsiae, erythrocyte-sensitizing substance from, 212

Use of antigen excess zone to reveal cross reactions in antigens, 317

Vaccinia infection in mouse, effect of heterocyclic and thiosemicarbazones on. 229

 virus in brain of mouse, effect of thiosemicarbazones and dichlorophenoxy thiouracil, 222
 Vibrio metschnikovii, serological studies with, 207 Virus growth in tissue culture fibroblasts, 51 Vogel, H., 503

Waksman, B. H. and Gaulitz, D., 331 Walker, D. L., Foster, L. E., Chen, T. H., Larson, A. and Meyer, K. F., 245

Wetter, L. R., Cohn, M., and Deutsch, H. F., 507
White cell lysis produced by rabbit antiserum to purified protein with homologous antigen, 331

Wissler, R. W., Robson, M. J., Fitch, F., Nelson, W. and Jacobson, L. O., 379

Wyckoff, R. W. G., 187

Wyman, L. See Bowen and Wyman, 235

Wynne, E. S., Gott, C. L., Mehl, D. A. and Norman, J. O., 207

X-irradiation, effects of, on phagocytic activity, 454

—, — — spleen shielding on antibody formation in rats receiving, 379

Yellow fever vaccine, chick embryo, stability during storage, 352