INDEX

Adrenal antibodies, rat, in vivo localization of, 134 Agar diffusion technic, use of, to reveal unidentified antibody in anti-egg albumin sera, 205

plate precipitin test of Ouchterlony, experimental studies of, 232

Albert, S., 278

Alum-precipitated anthrax antigen, immunizing activity of, 387

Anderson, Pearl, 16

Anthrax, studies on immunity in, 387

Antibiotic activity, mixed bacterial infections in relation to, 169

Antibodies, labeled rat adrenal, 134

- —, local fixation of in the skin of the guinea pig, effect of histamine on, 318
- —, production of in chickens, to human and hog blood group substances, 67
- -, rat organ, in vivo localization of, 125
- to the human blood groups in normal and immune sera, 29

Antibody formation, inhibition of in mature rabbits by contact with the antigen at early age, 49

- and effect of x-radiation on antibody levels in hypophysectomized rat, 88
- in anti-egg albumin sera revealed by the agar diffusion technic, 205
- production and complement, relative effect of various agents on, 375
- —, relation of onset of resistance of suckling mice to mumps virus, 249
- ---, studies on, 95
- response of suckling mice to mumps virus, 244, 249

Antigen analysis by the Oudin method, 322

Antigenic composition of Ammodytes viper venom, 115

 relations of blood group antigens as suggested by tests with lectins, 226

Antigenicity of tetanus toxoid prepared in presence and absence of veal infusion, 259

Arteritis, effect of nitrogen mustard on experimental production of, 100

Baer, Harold, 67

Bacterial infections, mixed, in relation to antibiotic activity, 169

Bale, William F., 125, 134

Becker, Elmer L., 286

Becker, Robert R., 159

Bell, J. Frederick, 221

Belman, Sidney, 296

Benacerraf, B., 318

Berman, Theodore, 259

Bierly, James N., 256

Biozzi, G., 318

Blank, Harvey, 415

Blood group antigens, antigenic relations of, as suggested by tests with lectins, 226

— groups, antibodies to in normal and immune sera, 29

Boyd, William C., 226

Branham, Sara E., 199

Breese, Sydney S., 16

Bringaze, Joan Kemp, 67

Brown, Gordon C., 62

Calcium and factor resembling C'1, role of in inactivation of human complement, 146

Carsten, Mary E., 296

Chang, R. Shih-Man, 8

Chanock, Robert M., 337, 352

Chicks, use of in studies of equine encephalitis, 106

Chin, Paul H., 120

Clostridium septicum, micrococcus infection, relation to antibiotic activity, 169

Cohen, Sheldon G., 100

Comparison of normal antibodies and antigens in sheep, cattle and man, 407

Complement and antibody production, relative effect of various agents on, 375

- -, dual activity of, 163
- -, factors influencing hemolytic action of, 375
- fixation reaction in virus systems, 309
- -, function of, 163
- human, inactivation by plasmin and antigenantibody aggregates, 146

Cortisone and adrenocorticotropic hormone, effect on hypersensitivity to 2,4-dinitrochlorobenzene in guinea pigs, 44

Crocker, T. Timothy, 1

Deming, Q. B., 81

Dengue viruses, properties and antigenic relationships of hemagglutinins associated with, 363

Development of resistance in mice immunized with soluble antigen from B. tularense, 221

Dickensheets, James, 256

Dougherty, Thomas F., 95

Dzury, Daniel S., 100

Eberhard, Theodore P., 256

Effect of biologic and chemical agents on production of arteritis by passive sensitization, 100

 order of addition of antigen and antibody on the precipitin reaction, 286 Egg passage, effect of, on reaction by influenza A virus and sheep erythrocytes, 190

Eisen, Herman N., 296

Electron microscopic counting of meningopneumonitis virus, 1

Electrophoretic mobility in paper of isoagglutinins, 81

Elementary bodies, meningo-pneumonitis virus, determined by electron microscopy, 1

Encephalitis, Eastern and Western equine, use of chicks in studies on, 106

Enders, John F., 62

Enterobacteriaceae, studies on Vi antigen from, 16, 23

Erythrocyte-sensitizing substances from Rickettsiae of the Rocky Mountain spotted fever group, 8

Freeman, Monroe, 16 Fuller, Henry S., 138

Gamma globulin, effect of on subclinical infection in familial associates of poliomyelitis cases, 54

— —, I¹³¹ labeled, half-life in patients with hepatic cirrhosis, 256

Green, Thomas W., 387

Halbert, Seymour P., 169

Half-life of I¹⁸¹ labeled normal human gamma globulin in patients with hepatic cirrhosis, 256

Halpern, B. N., 318

Hanan, Robert, 54

Havens, Paul W., Jr., 256

Hayes, Sheldon P., 95

Henle, Werner, 415

Histamine, effect of on local fixation of antibodies in the skin of the guinea pig, 318

Hofman, Bartheld, 273

Hottle, George A., 199

Hypersensitivity to 2,4-dinitrochlorobenzene in guinea pigs, effect of cortisone and adrenocorticotropic hormone on, 44

— — low molecular weight substances, studies on, 296

Immune hemolysis, kinetic studies on, 426, 435, 443

— response of suckling mice to mumps virus vaccine, 244

Immunity in anthrax, studies, on, 387

-, tissue cultures in the study of, 62

Immunochemical analysis of unidentified antibody in anti-egg albumin sera, 205

Immunochemistry of blood group O, 67

Immunogenetic studies on J substance in cattle, 397 Immunological properties of Vi antigens derived from V form enterobacteriaceae, 23

Inactivation of human complement by plasmin and antigen-antibody aggregates, 146

Incorporation of radioactive phosphorus into influenza virus, 415

Influenza virus, incorporation of radioactive phosphorus into, 415

- - erythrocyte interaction, 180, 190

Irwin, M. R., 397

Isoagglutinins, electrophoretic mobility in paper, 81

J substance of cattle, 397, 407

Jeter, W. S., 44

Johnson, Ralph M., 278

Jungeblut, Claus W., 264

Kabat, Elvin A., 205

Kanode, Ralph G., Jr., 387

Kelly, Dorothy R., 40

Kinetic studies on immune hemolysis, 426, 435, 443

Kissling, R. E., 106

Knox, Alice W., 264

Landy, Maurice, 16, 23

Larson, Carl L., 221

Lepow, Irwin H., 146

Levine, Lawrence, 426, 435, 443

Liu, Oscar C., 415

Lymphocytes, participation in antibody production, 95

Makinodan, Takashi, 159

Marucci, Alvin A., 443

Mayer, Manfred M., 426, 435, 443

McKercher, P. D., 309

McNamee, Mary, 67

Meningo-pneumonitis virus, number of elementary bodies per 50% lethal dose, 1

Menon, P. Govinda, 383

Merideth, Ann M., 383

Mice, susceptibility to reinfection with Trichomonas vaginalis, 40

Monolayer tissue cultures, propagation of poliomyelitis viruses in, 392

Muić, N., 115

Mumps virus, antibody response of suckling mice to, 244, 249

Murray, Edward S., 8

Nagareda, C. Susan, 88

Nature of "complete" Rh antisera as revealed by antiglobulin augmentation, 212

Neff, Jane C., 286

Nitrogen mustard, effect on experimental production of arteritis, 100 Ouchterlony agar-plate precipitin test, experimental studies of, 232

Oudin method for quantitative antigen analysis, 322

Overman, John R., 244, 249

Owen, Cora R., 221

Owen, Ray D., 29

Oyama, Jiro, 54

Parker, Robert T., 383

Payne, Rose, 81

Physico-chemical characterization of Vi antigens isolated from V form enterobacteriaceae, 16

Piantanida, M., 115

Pillemer, Louis, 146

Pinkus, Hermann, 278

Plasmin, inactivation of human complement by, 146

Poliomyelitis, effect of gamma globulin on subclinical infections in familial associates of, 54

- virus propagation in vitro, effect of cell population, virus inoculum, temperature of incubation on, 331
- ----, propagation of, in tissue cultures, 392
- —, receptor-destroying factor in saliva of humans infected with, 264, 273

Polyglycyl bovine serum albumin, serological properties of, 159

Precipitin reaction, effect of order of addition of reagents on, 286

— —, the 2,4-dinitrophenyl group as determinant in, 296

Pringle, B. H., 232

Propagation in vitro of poliomyelitis viruses, studies, 331

Quantitative antigen analysis by the Oudin method, 322

- comparisons of responses of cotton rats and albino mice to epidemic typhus rickettsiae, 138
- serological determination of antibody formation in x-irradiated rabbits, 120

Rabbits, inhibition of antibody formation in by contact with antigen at early age, 49

Rabson, Alan S., 54

Radioactive phosphorus, incorporation of, into influenza virus, 415

Rapp, Herbert J., 435, 443

Rat organ antibodies, localization of, in tissues, 125, 134

Ratnoff, Oscar D., 146

Reaction between influenza A virus and sheep erythrocytes, 190

— Lee virus and cat erythrocytes, 180 Receptor-destroying enzyme in human saliva and its possible relation to poliomyelitis infection, 273

— factor in human saliva from healthy donors and poliomyelitis patients, 264

Rendel, J., 407

Rh antisera as revealed by antiglobulin augmentation, 212

Rice, Christine E., 309, 375

Rickettsiae, epidemic typhus, responses of cotton rats and albino mice to, 138

- persistence of in patient recovered from Rocky Mountain spotted fever, 383
- of the Rocky Mountain spotted fever group, erythrocyte-sensitizing substances from, 8

Riggs, Donald B., 199

Rocky Mountain spotted fever group of rickettsiae, erythrocyte-sensitizing substances from, 8

————, persistence of R. rickettsii in, 383 Rubinstein, Herbert M., 322

Sabin, Albert B., 337, 352, 363

Sagin, Jerome F., 16, 23

Scherer, William F., 331

Schieble, Jack H., 54

Schnitzer, R. J., 40

Schumacher, Alberta, 40

Seebohm, Paul M., 44

Sera, normal and immune, antibodies to the human blood groups in, 29

Serological determination of antibody formation in x-irradiated rabbits, 120

— properties of polyglycyl bovine serum albumin, 159

Shapleigh, Elizabeth, 226

Shigella dysenteriae, studies on, 199

Sikes, R. K., 106

Silverman, Myron S., 120

Silverstein, Arthur M., 163

Snyder, John C., 8

Snyder, Merrill J., 383

Soluble antigen from B. tularense, resistance of mice immunized with, 221

Sonn, Constance, 169

Sørensen, A. Neimann, 407

Spar, Irving L., 125, 134

Spizizen, John, 415

Stahmann, Mark A., 159

Stone, Joseph L., 259

Stone, W. H., 397, 407

Sturgeon, Phillip, 212

Sweet, Benjamin H., 363

Swick, Lois, 169

Tamm, Igor, 180, 190

Tetanus toxoid, effect of veal in medium on antigenicity of, 259 Tissue cultures in the study of immunity, 62

—, propagation of poliomyelitis viruses in, 392

Toxoid, Shigella, factors involved in preparation of, 199

Tremaine, Mary M., 44

Trichomonas vaginalis, influence of site of immunizing infection on immunity of mice, 40 Trichomoniasis, experimental studies in, 40

Trypsin-dispersed monkey kidney cells, propagation of poliomyelitis viruses in cultures of, 392 Typhus rickettsiae, responses of cotton rats and albino mice to, 138

Vaughan, John H., 205

Vesicular stomatitis in horses, cattle and swine, complement fixation reaction in, 309

Vi antigen, studies on, 16, 23

Viper venom, Ammodytes, antigenic composition of, 115 Walsh, John W., 100

Webster, Marion E., 16, 23

West Nile virus, hemagglutinin of, properties and antigenic relationships, 352

Western equine encephalitis virus, hemagglutinin of, recovery, properties and use for diagnosis, 337

Wilson, M. W., 232

Wolfe, Harold R., 159

Woodward, Theodore E., 383

Wright, George G., 387

Wurz, Leona, 146

X-irradiation, quantitative serological determination of antibody formation in rabbits, 120
 X-radiation, effect of, on antibody levels in hypophysectomized rat, 88

Youngner, J. S., 392