

## INDEX TO VOLUME XXI

Absorption, paths of, A study of the rate of deposition and, of strontium in the rat.....	165
—, The amount of smoke produced from tobacco and its, in smoking as determined by electrical precipitation.....	47
—, The carbon monoxide content of tobacco smoke and its, on inhalation.....	23
Abt, A. F., Lamson, Paul D., Oosthuisen, C. A., and Rosenthal, S. M. The influence of the arterial blood supply to the liver on hemoglobin concentration in certain acute conditions.....	401
Acetylsalicylic acid, Liberation of salicyl from and excretion of.....	247
Acid, acetylsalicylic, Liberation of salicyl from and excretion of.....	247
Administration of drugs, The intra-hepatic.....	225
Adrenalin, Does the reaction to, obey Weber's law.....	229
Alsberg, Carl L., and Schwartz, Erich W. Studies on the pharmacology of cadmium and zinc with particular reference to emesis.....	1
—, Johns, Carl O., and Finks, A. J. Chronic intoxication by small quantities of cadmium chloride in the diet.....	59
Anthelmintic value, notes on the pharmacology and therapeutics of oil of chenopodium and investigations on the, of its components.....	391
Arsenic compounds, organic, Experimental research on the distribution and elimination of, after intravenous administration.....	301
Arterial blood supply to the liver, The influence of the, on hemoglobin concentration in certain acute conditions.....	401
Atropine, On the sensitivity of different nerve endings to.....	99
Barbital narcosis and hypothermia in pigeons.....	323
Baunberger, J. Percy. The amount of smoke produced from tobacco and its absorption in smoking as determined by electrical precipitation.....	47
—, The carbon monoxide content of tobacco smoke and its absorption on inhalation.....	23
—, The nicotine content of tobacco smoke.....	35
Benzene, On the detection of, in cadavers.....	161
Benzyl mandelate, A pharmacological and clinical examination of.....	443
Biological action of potassium and its radio-activity, The.....	151
—, significance of lipoids, On the.....	85
Bio-physical studies of the effects of various drugs upon the temperature of the brain and the liver.....	429
Bismuth, Histological changes produced experimentally in rabbits by.....	313
Blood stream, The rôle of the liver in the removal of hemoglobin from the.....	367
—sugar courses, The respiratory exchange and, of normal and diabetic subjects after epinephrin and insulin.....	343

Blood supply, arterial, to the liver, The influence of the, on hemoglobin concentration in certain acute conditions.....	401
Brain and the liver, temperature of the, Bio-physical studies of the effects of various drugs upon the.....	429
—, On the entrance of convulsant dyes into the substance of the, and spinal cord after an injury to these structures.....	263
Bulmer, F. M. R. Experimental research on the distribution and elimination of organic arsenic compounds after intravenous administration....	301
Cadavers, On the detection of benzene in.....	161
Cadmium chloride, Chronic intoxication by small quantities of, in the diet....	59
— Studies on the pharmacology of, and zinc with particular reference to emesis.....	1
Camphor, The action of, menthol and thymol on the circulation.....	177
Carbon monoxide content of tobacco smoke, The, and its absorption on inhalation.....	23
— tetrachloride, The toxicity of, in relation to liver function as tested by phenoltetrachlorophthalein.....	237
Chenopodium, oil of, Notes on the pharmacology and therapeutics of, and investigations on the anthelmintic value of its components.....	391
Chloride cadmium, Chronic intoxication by small quantities of, in the diet.....	59
Circulation, The action of camphor, menthol and thymol on the.....	177
Clinical examination, A pharmacological and, of benzyl mandelate.....	443
Convulsant dyes, On the entrance of, into the substance of the brain and spinal cord after an injury to these structures.....	263
Cord, spinal, On the entrance of convulsant dyes into the substance of the brain and, after an injury to these structures.....	263
Cori, Carl F., Cori, G. T., and Pucher, G. W. The free sugar content of the liver and its relation to glycogensynthesis and glycogenolysis.....	377
Cori, G. T., Cori, Carl F., and Pucher, G. W. The free sugar content of the liver and its relation to glycogensynthesis and glycogenolysis.....	377
Crile, George W., Rowland, Amy F., and Wallace, S. W. Bio-physical studies of the effects of various drugs upon the temperature of the brain and the liver.....	429
Deposition, A study of the rate of, and paths of absorption of strontium in the rat.....	165
Diabetic subjects, The respiratory exchange and blood sugar curves of normal and, after epinephrin and insulin.....	343
Diet, Chronic intoxication by small quantities of cadmium chloride in the.....	59
Drugs, Bio-physical studies of the effects of various, upon the temperature of the brain and the liver.....	429
—, The action of certain depressant, on the sensory threshold for faradic stimulation in human subjects and the effect of tobacco smoking on this action.....	77
—, The intra-hepatic administration of.....	225
Dudley, Harold Ward. On the active principles of the pituitary gland....	103

Dyes, convulsant, On the entrance of, into the substance of the brain and spinal cord after an injury to these structures.....	263
Electrical precipitation, The amount of smoke produced from tobacco and its absorption in smoking as determined by.....	47
Ellis, Max M. Barbitol narcosis and hypothermia in pigeons.....	323
Emesis, Studies on the pharmacology of cadmium and zinc with particular reference to.....	1
Epinephrin and insulin, The respiratory exchange and blood sugar curves of normal and diabetic subjects after.....	343
Examination of benzyl mandelate, A pharmacological and clinical.....	443
Excretion of acetylsalicylic acid, Liberation of salicyl from and.....	247
Experimental research on the distribution and elimination of organic arsenic compounds after intravenous administration.....	301
Faradic stimulation, sensory threshold for, The action of certain depressant drugs on the, in human subjects and the effect of tobacco smoking on this action.....	77
Finks, A. J., Johns, Carl O., and Alsberg, Carl L. Chronic intoxication by small quantities of cadmium chloride in the diet.....	59
Free sugar content of the liver, The, on its relation to glycogensynthesis and glycogenolysis.....	377
Function, liver, The toxicity of carbon tetrachloride in relation to, as tested by phenoltetrachlorphthalein.....	237
Furfural, The action of.....	65
Gettler, Alexander O. On the detection of benzene in cadavers.....	161
Gland, pituitary, On the active principles of the.....	103
Glycogenolysis, glycogensynthesis and, The free sugar content of the liver and its relation to.....	377
Glycogensynthesis and glycogenolysis, The free sugar content of the liver and its relation to.....	377
Grabfield, G. P., and Hale, W. The action of certain depressant drugs on the sensory threshold for faradic stimulation in human subjects and the effect of tobacco smoking on this action.....	77
Hale, W., and Grabfield, G. P. The action of certain depressant drugs on the sensory threshold for faradic stimulation in human subjects and the effect of tobacco smoking on this action.....	77
Hanzlik, P. J., and Presho, Elizabeth. Comparative toxicity of inorganic lead compounds and metallic lead for pigeons.....	123
—, and Presho, Elizabeth. Comparative toxicity of metallic lead and other heavy metals for pigeons.....	145
—, and Presho Elizabeth. Therapeutic efficiency of various agents for chronic poisoning by metallic lead in pigeons.....	131
— and Presho, Elizabeth. The salicylates. XIV. Liberation of salicyl from and excretion of acetylsalicylic acid.....	247

Heathcote, Reginald St. A. The action of camphor, menthol and thymol on the circulation.....	177
Hemoglobin concentrations, The influence of the arterial blood supply to the liver on, in certain acute conditions.....	401
—, The rôle of the liver in the removal of, from the blood stream.....	367
Henderson, V. E. On the sensitivity of different nerve endings to atropine.....	99
Human subjects, The action of certain depressant drugs on the sensory threshold for faradic stimulation in, and the effect of tobacco smoking on this action.....	77
Hypothermia, Barbitol narcosis and, in pigeons.....	323
Inhalation, The carbon monoxide content of tobacco smoke and its absorption on.....	23
Injury, On the entrance of convulsant dyes into the substance of the brain and spinal cord after an, to these structures.....	263
Inorganic lead compounds and metallic lead, Comparative toxicity of, for pigeons.....	123
Insulin, epinephrin and, The respiratory exchange and blood sugar curves of normal and diabetic subjects after.....	343
Intoxication, Chronic, by small quantities of cadmium chloride in the diet. 59	
—, quinine, The effect of, on the respiratory center of the rabbit.....	293
Intra-heptic administration of drugs, The.....	225
Intravenous administration, experimental research on the distribution and elimination of organic arsenic compounds after.....	301
Johns, Carl O., Finks, A. J., and Alsberg, Carl L. Chronic intoxication by small quantities of cadmium chloride in the diet.....	59
Kephalin and lecithin, The action of.....	85
Kinney, Ethel May, and McCollum, E. V. A study of the rate of deposition and paths of absorption on strontium in the rat.....	165
Klauder, Joseph V., and Lucke, Baldwin. Histological changes produced experimentally in rabbits by bismuth.....	313
Lamson, Paul D., and McLean, A. J. The toxicity of carbon tetrachloride. In relation to liver function as tested by phenoltetrachlorphthalein....	237
— Abt, A. F., Oosthuisen, C. A., and Rosenthal, S. M. The influence of the arterial blood supply to the liver on hemoglobin concentration in certain acute conditions.....	401
Lead compounds, inorganic, and metallic lead, Comparative toxicity of, for pigeons.....	123
—, metallic, and other heavy metals, Comparative toxicity of, for pigeons.....	145
—, metallic, Therapeutic efficiency of various agents for chronic poisoning by, in pigeons.....	131
Lecithin, The action of kephalin and.....	85
Lipoids, On the biological significance of.....	85

- Liver, brain and the, temperature of the, Bio-physical studies of the effects of various drugs upon the..... 429
- function, The toxicity of carbon tetrachloride in relation to, as tested by phenoltetrachlorphthalein..... 237
- The free sugar content of the, and its relation to glycogensynthesis and glycogenolysis..... 377
- The influence of the arterial blood supply to the, on hemoglobin concentration in certain acute conditions..... 401
- The rôle of the, in the removal of hemoglobin from the blood stream..... 367
- Lucke, Baldwin, and Klauder, Joseph V. Histological changes produced experimentally in rabbits by bismuth..... 313
- Lyman, Richard S., Nicholls, Elizabeth, and McCann, Wm. S. The respiratory exchange and blood sugar curves of normal and diabetic subjects after epinephrin and insulin..... 343
- Lyon, D. Murray. Does the reaction to adrenalin obey Weber's law..... 229
- Macht, David I. A pharmacological and clinical examination of benzyl mandelate..... 443
- Mandelate, benzyl, A pharmacological and clinical examination of..... 443
- McCann, Wm. S., Lyman Richard S., and Nicholls, Elizabeth. The respiratory exchange and blood sugar curves of normal and diabetic subjects after epinephrin and insulin..... 343
- McCollum, E. V., and Kinney, Ethel May. A study of the rate of deposition and paths of absorption of strontium in the rat..... 165
- McGuigan, Hugh. The action of furfural..... 65
- McLean, A. J., and Lamson, Paul D. The toxicity of carbon tetrachloride: In relation to liver function as tested by phenoltetrachlorphthalein.... 237
- Menthol, The action of camphor, and thymol on the circulation..... 177
- Metallic lead and other heavy metals, Comparative toxicity of, for pigeons..... 145
- lead, Comparative toxicity of inorganic lead compounds and, for pigeons..... 123
- lead, Therapeutic efficiency of various agents for chronic poisoning by, in pigeons..... 131
- Metals, Comparative toxicity of metallic lead and other heavy, for pigeons..... 145
- Molloy, Daniel M. Notes on the pharmacology and therapeutics of oil of chenopodium and investigations on the anthelmintic value of its compounds..... 391
- Monoxide, carbon, content of tobacco smoke, The, and its absorption on inhalation..... 23
- Narcosis, Barbitol, and hyperthermia in pigeons..... 323
- Nerve endings, On the sensitivity of different, to atropine..... 99
- Nicholls, Elizabeth, Lyman, Richard S., and McCann, Wm. S. The respiratory exchange and blood sugar curves of normal and diabetic subjects after epinephrin and insulin..... 343
- Nicotine content of tobacco smoke, The..... 35

Normal and diabetic subjects, The respiratory exchange and blood sugar curves of, after epinephrin and insulin.....	343
Oil of chenopodium, Notes on the pharmacology and therapeutics of, and investigations on the anthelmintic value of its components.....	391
Oosthuisen, C. A., Lamson, Paul D., Abt, A. F., and Rosenthal, S. M. The influence of the arterial blood supply to the liver on hemoglobin concentration in certain acute conditions.....	401
Organic arsenic compounds, Experimental research on the distribution and elimination of, after intravenous administration.....	301
Pharmacological and clinical examination of benzyl mandelate, A.....	443
Pharmacology and therapeutics of oil of chenopodium, Notes on the, and investigations on the anthelmintic value of its components.....	391
— of cadmium and zinc, Studies on the, with particular reference to emesis.....	1
Phenoltetrachlorphthalein, The toxicity of carbon tetrachloride in relation to liver function as tested by.....	237
Pigeons, Barbital narcosis and hypothermia in.....	323
—, Comparative toxicity of inorganic lead compounds and metallic lead for.....	123
—, Comparative toxicity of metallic lead and other heavy metals for.....	145
—, Therapeutic efficiency of various agents for chronic poisoning by metallic lead in.....	131
Pituitary gland, On the active principles of the.....	103
Poisoning, chronic, by metallic lead, Therapeutic efficiency of various agents for, in pigeons.....	131
Potassium, The biological action of, and its radio-activity.....	151
Precipitation, electrical, The amount of smoke produced from tobacco and its absorption as determined by.....	47
Presho, Elizabeth, and Hanzlik, P. J., Comparative toxicity of inorganic lead compounds and metallic lead for pigeons.....	123
— and Hanzlik, P. J. Comparative toxicity of metallic lead and other heavy metals for pigeons.....	145
— and Hanzlik, P. J. Therapeutic efficiency of various agents for chronic poisoning by metallic lead in pigeons.....	131
— and Hanzlik, P. J. The salicylates. XIV. Liberation of salicyl from and excretion of acetylsalicylic acid.....	247
Proceedings, Scientific, of the American Society for Pharmacology and Experimental Therapeutics.....	191
Quantitative parallelism of insulin in man, dog and rabbit. F. H. Banting, C. H. Best, G. M. Dobbin and J. A. Gilchrist.....	191
A phyto-pharmacological study of some animal toxins with special reference to a menotoxin. David I. Macht and Dorothy Lubin....	191
A contribution to the pharmacology and physiology of the trigonum and the neck of the bladder. David I. Macht and Hugh H. Young.	193
Concerning and antiseptic action of some benzyl compounds. David I. Macht and Justina H. Hill.....	195

- A quantitative study of certain new local anesthetics of the procaine type. Henry L. Schmitz, Edgar A. Rygh and A. S. Loevenhart... 195
- The relation of chemical constitution of certain organic arsenical compounds to their action on the optic tract. A. G. Young and A. S. Loevenhart..... 197
- Drugs and basal metabolism. Water M. Boothby and Leonard G. Rowntree..... 198
- The comparative physiological activity of thyroid and thyroxin. Reid Hunt..... 199
- Nasal vasomotor responses to changes in respiration. Arthur L. Tatum..... 199
- A method of studying peristalsis in situ. Torald Sollmann..... 200
- Filtration through frog-skin. Torald Sollmann..... 200
- Studies in protoplasm poisoning. 1. Phenols. L. F. Shackell..... 201
- Effect of morphine and other opium alkaloids on the muscular movements of the alimentary canal. Preliminary report. O. H. Plant and G. H. Miller..... 202
- Further observations on the carminative action of volatile oils. O. H. Plant and G. H. Miller..... 203
- The action of furfural. Hugh McGuigan..... 203
- The efficacy of arsenic antidote (ferri hydroxidum cum magnesii oxido) U. S. P. Hugh McGuigan, H. V. Atkinson and G. A. Brough..... 204
- A further study of the toxicity of acid fuchsin with special reference to the relation between color and toxicity. J. E. Thomas..... 205
- Studies on some isomeric and homologous fat soluble di-azo dyes. E. W. Schwartz and J. C. Munch..... 206
- The pharmacological properties of some aromatic alcohols and aldehyde alcohols. Herman H. Jensen and Arthur D. Hirschfelder..... 207
- A special feature of the action of arsphenamine, neoarsphenamine and silver salvarsan. D. E. Jackson..... 208
- Further observations on the relation between chemical constitution and chemotherapeutic action of arsenicals. Carl Voegtlin, J. M. Johnson, Helen Dyer and J. W. Thompson..... 209
- Viscosity as an indicator of the toxicity of arsphenamine solutions. Carl Voegtlin, J. M. Johnson and Helen Dyer..... 210
- The effect of epinephrine upon the blood picture. C. W. Edmunds and Ruth P. Stone..... 210
- Changes in the epinephrin secretion during cerebral anemia. J. M. Rogoff..... 211
- The action of pilocarpine upon the blood vessels. Erwin E. Nelson and George F. Keiper, Jr..... 212
- Impurities in anaesthetic ether. A. W. Rowe..... 213
- Effect of impurities in anesthetic ether. W. L. Mendenhall..... 213
- The action of aconitine on the isolated intestine. William Salant and Lewis H. Wright..... 214
- A reversal of the action of sodium citrate on intestinal motility and on the circulation. William Salant and Nathaniel Kleitman..... 214
- The elevation of temperature produced by caffeine in hypothermic. William Salant and Nathaniel Kleitman..... 214

- A simple method for the analysis of ether in air and its application to metabolism studies. Theo. Kruse..... 215
- Digitalis standardization. Theo. Kruse..... 216
- Triple (magnesium ammonium) phosphate formation and cystitis from methyl alcohol. E. W. Schwartz..... 216
- A chemical method for assay of strophanthus preparations. Arthur Knudson and Melvin Dresbach..... 217
- Disturbances in the acid-base equilibrium of the blood by intravenous injections. P. J. Hanzlik, F. De Eds and M. L. Tainter..... 217
- The effect upon the superficial and deep temperatures of certain substances applied to the body surface. N. B. Taylor..... 219
- Observations on substances which increase the excitability of the vomiting center. Soma Weiss and Robert A. Hatcher..... 220
- Absorption from the cloaca. W. C. Sharpe..... 220
- A preliminary report of studies on the bio-assay of pituitary extracts. Maurice I. Smith and Wm. T. McClusky..... 220
- The formation of liesegangs. Hugh McGuigan..... 220
- Bio-physical studies of effects upon the temperature of the brain of certain electrolytes. Hugo Friske and B. B. Rosen..... 221
- Bio-physical studies of the effects of various drugs upon the temperature of the brain and the liver. I. Strychnine; II. Morphine; III. Bromides; IV. Curare; V. Atropine; VI. Caffeine; VII. Alcohol. George W. Crile, Amy F. Rowland and S. W. Wallace..... 222
- Pucher, G. W., Cori, Carl F., and Cori, G. T. The free sugar content of the liver and its relation to glycogensynthesis and glycogenolysis..... 377
- Quinine intoxication, The effect of, on the respiratory center of the rabbit..... 293
- Rabbit, respiratory center of the, The effect of quinine intoxication on the..... 293
- Rabbits, Histological changes produced experimentally in, by bismuth..... 313
- Radio-activity, The biological action of potassium and its..... 151
- Rat, A study of the rate of deposition and paths of absorption of strontium in the..... 165
- Reaction to adrenalin, Does the, obey Weber's law..... 229
- Research, Experimental, on the distribution and elimination of organic arsenic compounds after intravenous administration..... 301
- Respiratory center of the rabbit, The effect of quinine intoxication on the. — exchange, The, and blood sugar curves of normal and diabetic subjects after epinephrin and insulin..... 343
- Rosenthal, Sanford M. The rôle of the liver in the removal of hemoglobin from the blood stream..... 367
- Lamson, Paul D., Abt, A. F., and Oosthuisen, C. A. The influence of the arterial blood supply to the liver on hemoglobin concentration in certain acute conditions..... 401
- Rowland, Amy F., Crile, George W., and Wallace, S. W. Bio-physical studies of the effects of various drugs upon the temperature of the brain and the liver..... 429



Salicylates, The.....	247
Salicyl, The liberation of, from and excretion of acetylsalicylic acid.....	247
Schwartz, Erich W., and Alsberg, Carl L. Studies on the pharmacology of cadmium and zinc with particular reference to emesis.....	1
Sensitivity of different nerve endings to atropine, On the.....	99
Sensory threshold for faradic stimulation, The action of certain depressant drugs on the, in human subjects and the effect of tobacco smoking on this action.....	77
Smoke, The amount of, produced from tobacco and its absorption in smoking as determined by electrical precipitation.....	47
— tobacco, The carbon monoxide content of, and its absorption on inhalation.....	23
— tobacco, The nicotine content of.....	35
Smoking, The amount of smoke produced from tobacco and its absorption in, as determined by electrical precipitation.....	47
— tobacco, The action of certain depressant drugs on the sensory threshold for faradic stimulation in human subjects and the effect of, on this action.....	77
Spinal cord, On the entrance of convulsant dyes into the substance of the brain and, after an injury to these structures.....	263
Stimulation, faradic, sensory threshold for, The Action of certain depressant drugs on the, in human subjects and the effect of tobacco smoking on this action.....	77
Storm van Leeuwen, W., and v. Szent Györgyi, A. On the biological significance of lipoids. The action of kephalin and lecithin.....	85
Strontium, A study of the rate of deposition and paths of absorption of, in the rat.....	165
Sugar content, free of the liver, The, and its relation to glycogensynthesis and glycogenolysis.....	377
— curves, blood, The respiratory exchange and, of normal and diabetic subjects after epinephrin and insulin.....	343
Sugata, H., and Tatum, A. L. The effect of quinine intoxication on the respiratory center of the rabbit.....	293
Syz, H. C. On the entrance of convulsant dyes into the substance of the brain and spinal cord after an injury to these structures.....	263
Tatum, A. L., and Sugata, H. The effect of quinine intoxication on the respiratory center of the rabbit.....	293
Temperature of the brain and the liver, Bio-physical studies of the effects of various drugs upon the.....	429
Tetrachloride, carbon, The toxicity of, in relation to liver function as tested by phenoltetrachlorphthalein.....	237
Therapeutic efficiency of various agents for chronic poisoning by metallic lead in pigeons.....	131
Therapeutics, pharmacology and, of oil of chenopodium, Notes on the, and investigations on the, anthelmintic value of its components.....	391
Thymol, The action of camphor, menthol and, on the circulation.....	177

Tobacco smoke, The carbon monoxide content of, and its absorption on inhalation.....	23
— smoke, The nicotine content of.....	35
— smoking, The action of certain depressant drugs on the sensory threshold for faradic stimulation in human subjects and the effect of, on this action.....	77
Toxicity, Comparative, of inorganic lead compounds and metallic lead for pigeons.....	123
— Comparative, of metallic lead and other heavy metals for pigeons.....	145
— of carbon tetrachloride, The, in relation to liver function as tested by phenoltetrachlorphthalein.....	237
v. Szent Györgyi, A., and Storm van Leeuwen, W. On the biological significance of lipoids. The action of kephalin and lecithin.....	85
Waddell, J. A. The intra-hepatic administration of drugs.....	225
Wallace, S. W., Crile, George W., and Rowland, Amy F. Bio-physical studies of the effects of various drugs upon the temperature of the brain and the liver.....	429
Weber's law, Does the reaction to adrenalin obey.....	229
Zinc, Studies on the pharmacology of cadmium and, with particular reference to emesis.....	1
Zwaardemaker, H. The biological action of potassium and its radio-activity.....	151