

# BIBLIOGRAPHY OF PHARMACEUTICAL RESEARCH

Conducted by H. V. Arny, Reporter on the Progress of Pharmacy, Chairman of the Committee on Research.

On these pages, each month, will be found a list of articles on pharmaceutical research; the list appearing a certain month will record articles appearing in American journals of the preceding month and articles appearing in foreign journals will be recorded as quickly as possible after the journals reach the Reporter.

All articles appearing in these lists will be presented in abstract form in the bound volumes of the YEAR BOOK which will be issued as soon after the end of the year represented as editing and printing conditions permit. Those desiring abstracts immediately can obtain same for a fee of one dollar each by communicating with H. V. Arny, 115 West 68th St., New York, and arrangements can also be made for securing photographic reproductions of entire articles at moderate prices when such are desired.

## PHARMACOPOEIAL REVISION.

"Abel Scholar"

### B. P. Notes

*Chem. & Drug.*, 96 (Jan. 7, 1922), 11

## APPARATUS AND MANIPULATIONS.

Couch, J. F.

### Coagulation

*Am. J. Pharm.*, 94 (Feb. 1922), 92

Johnson, A. E.

### Diluting acids to a desired strength

*Analyst*; through *Pharm. J.*, 108 (Jan. 7, 1922), 8

Kohn

### New vacuum apparatus

*Chem. Ztg.*; through *Pharm. Zent.*, 63 (Jan. 5, 1922), 5

McNeary, W. W.

### Dispensing notes

J. AM. PHARM. ASSOC., 11 (Jan. 1922), 33

Peacock, J. C.

### Costless water-bath

*J. Am. Chem. Soc.*, 44 (Jan. 1922), 165

Utz

### Dispensing notes

*Pharm. Zent.*, 63 (Jan. 12, 1922), 17

## PHARMACEUTICAL PREPARATIONS.

Anon

### Coconut oil preparations

*Chem. & Drug.*, 96 (Jan. 7, 1922), 12

Beedle and Bolan

### Alkalinity of soap

*Chem. Umschau*; through *Pharm. Zent.*, 63 (Jan. 26, 1922), 52

Bodinus

### Assay of fat acids in soaps

*Pharm. Ztg.*, 67 (Jan. 14, 1922), 47

Breddin, H.

### Manufacture of bougies

*Pharm. Ztg.*, 67 (Jan. 11, 1922), 37

Collard, E.

### Assay of some pomades

*J. pharm. chim.*, 24 (Dec. 16, 1921), 471

Didier

### Sterilization of water for ampuls

*Schweiz. Apoth. Ztg.*, 60 (Jan. 5, 1922), 6

Dott, D. B.

### Extract of cannabis

*Pharm. J.*, 108 (Jan. 28, 1922), 63

Dott, D. B.

### Oleoresin of capsicum

*Pharm. J.*, 108 (Jan. 28, 1922), 64

Eaton, E. O.

### Emodin content of aromatic fluidextract of cascara sagrada

J. AM. PHARM. ASSOC., 11 (Jan. 1922), 21

Gowalowski, A.

### Quebracho extract

*D. A. Apoth. Ztg.*, 42 (Jan. 1922), 150

Henderson, J. C.

### Apiol and ergot in pills

*Pharm. J.*, 108 (Jan. 28, 1922), 65

Hilton, S. L.

### Liquor sodae chlorinatae

J. AM. PHARM. ASSOC., 11 (Jan. 1922), 32

Jones, A. J.

### Examination of "Chemical Food"

*Pharm. J.*, 108 (Jan. 28, 1922), 61

Kraemer

### Dentifrices

*Drug. Circ.*, 66 (Feb. 1922), 62

Loeper and DeRay

### Hypotensive action of tincture of garlic

*Ann. d'Igiene*; through *Pharm. J.*, 108 (Jan. 21, 1922), 47

Picon

### Injectable solutions of methyl arsenates

*J. pharm. chim.*, 24 (Dec. 16, 1921), 465

Spence, A.

### Tincture of capsicum

*Pharm. J.*, 108 (Jan. 28, 1922), 65

## GENERAL BOTANY AND BACTERIOLOGY.

Hinze

**Preservation of sera***Sudd. Apoth. Ztg.*; through *Pharm. Zent.*, 63 (Jan. 5, 1922), 5

Rosenthaler, L., and Kolle, K.

**The outer layer of plants***Ber. dtsh. pharm. Ges.*, 31 (Dec. 1921), 446

Van der Marel, J. P.

**Cooking of peas***Pharm. Weekbl.*, 59 (Jan. 28, 1922), 83

Wester, D. H.

**Manganese content of flowers***Pharm. Weekbl.*, 59 (Jan. 14, 1922), 51

Wherry, E. T.

**Soil-reaction and plant growth***Am. J. Pharm.*, 94 (Feb. 1922), 110

## THERAPEUTICS AND NEW REMEDIES.

Alther

**Otalgan***Schweiz. Apoth. Ztg.*, 60 (Jan. 12, 1922), 26

Bodinus

**"Kalktee Opheyden"***Pharm. Ztg.*, 67 (Jan. 14, 1922), 47

Hatcher, R. A.

**Relation of pharmacology to legal medicine***Law Notes*; through *Am. J. Pharm.*, 94 (Feb. 1922), 123

Kessler

**Rhonisol***Apoth. Ztg.*; through *Pharm. Zent.*, 63 (Jan. 12, 1922), 36

Morgenroth

**Rivenol***Pharm. Zent.*, 63 (Jan. 5, 1922), 6

Sabourand, R.

**Harmfulness of alkalis in falling hair***Med. Press*; through *Pharm. J.*, 108 (Jan. 7, 1922), 9

## VEGETABLE AND ANIMAL MATERIA MEDICA.

Anon

**Volatile substances in frangula***Drug. Circ.*, 66 (Feb. 1922), 62

Bowers and Moyer

**Evaluation of vanilla***N. D. Stat. Bull.*; through *Pharm. Era*, 55 (Feb. 1922), 58

Chow, M. H.

**Commercial star anise***J. AM. PHARM. ASSOC.*, 11 (Jan. 1922), 17

Deussen

**Copaiba***Pharm. Ztg.*, 67 (Jan. 4, 1922), 12

Falck, R.

**Propagation of mushrooms in forests***Pilz-Krauterfr.*; through *Pharm. Ztg.*, 66 (Dec. 31, 1922), 1146

Gershenfeld, L.

**Dehydrated products of commerce***J. AM. PHARM. ASSOC.*, 11 (Feb. 1922), 86

Gilg, E.

**"Radix Jo"***Apoth. Ztg.*; through *Pharm. Ztg.*, 66 (Dec. 31, 1921), 1145

Gruzewska, Z.

**Mucilage of Laminaria flexicaulis***Compt. rend.*; through *J. pharm. chim.*, 24 (Dec. 16, 1921), 490

Hassen, S. M.

**Cultivation of lac***Am. J. Pharm.*, 94 (Feb. 1922), 131

Hecke, L.

**Cultivation of ergot***Schweiz. Apoth. Ztg.*, 60 (Jan. 19, 1922), 45

Herrmann, E.

**Constituents of mushrooms***Pharm. Ztg.*, 66 (Dec. 31, 1921), 1146

Howard, J. W.

**Constituents of Ceonanthus velutinus***J. AM. PHARM. ASSOC.*, 11 (Jan. 1922), 19

Joachimoglu, G.

**Pharmacology of opium***Dtsch. med. Wsch.*; through *Pharm. Ztg.*, 67 (Jan. 14, 1922), 46

Lecoq, R.

**Diastasic action of malt and its extracts***J. pharm. chim.*, 25 (Jan. 1, 1922), 18

Lewis, J.

**Poisonous sensitive plant***Proc. S. A. Chem. Inst.*; through *Am. J. Pharm.*, 94 (Feb. 1922), 134

Lewis, J.

**South African arrow poison***Proc. S. A. Chem. Inst.*; through *Am. J. Pharm.*, 94 (Feb. 1922), 133

Lewis, J.

**South African love philtres***Proc. S. A. Chem. Inst.*; through *Am. J. Pharm.*, 94 (Feb. 1922), 134

Merl, T.

**Bees as carriers of formic acid***Z. Unters. Nahr. Genussm.*; through *Pharm. Zent.*, 63 (Jan. 26, 1922), 53

Rewald, B.

**Removing the bitterness of lupine***Apoth. Ztg.*; through *Pharm. Ztg.*, 66 (Dec. 31, 1921), 1146

Safford, W. E.

**Peyote**

*J. Am. Med. Assoc.*; through *J. AM. PHARM. ASSOC.*, 11 (Feb. 1922), 93

Straub, W.

**Therapeutics of oleander**

*Arch. Exp. Path. Pharmacol.*; through *Am. J. Pharm.*, 94 (Feb. 1922), 135

Tschirch, A.

**Ergot and its surrogates**

*Schweiz. Apoth. Ztg.*, 60 (Jan. 5, 1922), 1

Van Wisselingh, C.

**The seed-coats of the Rosaceae**

*Pharm. Weekbl.*, 59 (Jan. 7, 1922), 1

Zechmeister, L., and Szecsi, P.

**Fumaric acid and inosit in *Capsella bursa pastoris***

*Ber.*; through *Pharm. Zent.*, 63 (Jan. 26, 1922), 52

**GENERAL AND PHYSICAL CHEMISTRY.**

Anon

**Fornitral in nitric acid assays**

*Ann. chim. anal.*; through *Pharm. Weekbl.*, 59 (Jan. 28, 1922), 92

Baur and Rebrmann

**Photolysis of water**

*Helv. Chim. Acta*; through *Pharm. Zent.*, 63 (Jan. 12, 1922), 36

Fabre, R.

**Determination of the hydrogen ion exponent**

*J. pharm. chim.*, 25 (Jan. 1, 1922), 26

Hauser, E., and Rie, E.

**High temperature flame**

*Chem. Trade J.*; through *Pharm. J.*, 108 (Jan. 7, 1922), 8

Kolthoff, I. M.

**Use of potassium ferrocyanide in iodometry**

*Pharm. Weekbl.*, 59 (Jan. 21, 1922), 66

Lizius, J. L.

**Titration of acids and bases with two indicators**

*Pharm. Weekbl.*, 59 (Jan. 7, 1922), 18

Norrish, R. G. W.

**The octet theory**

*Chem. News*, 124 (Jan. 13, 1922), 16

Stutterheim, G. A.

**Determination of moisture in food stuffs**

*Pharm. Weekbl.*, 59 (Jan. 21, 1922), 68

**INORGANIC CHEMICALS.**

Anon

**Halogens from sea weed**

*L'Ind. Chim.*; through *Pract. Drug.*, 40 (Jan. 1922), 55

Atkinson, H.

**Assay of potassium in the presence of sodium and magnesium**

*Analyst*; through *Pharm. Weekbl.*, 59 (Jan. 14, 1922), 56

Bourges, H.

**Colloidal gold in intestinal septicemia**

*J. pharm. chim.*, 25 (Jan. 1, 1922), 46

Capitan

**Colloidal arsenic in influenza**

*Bull. acad. med.*; through *Am. Drug.*, 70 (Jan. 1922), 34

Crockett, W. G.

**Purified siliceous earth**

*J. AM. PHARM. ASSOC.*, 11 (Feb. 1922), 84

Doerschuk, A. N.

**Medicinal precipitated chalk**

*Am. Drug.*, 70 (Jan. 1922), 34

Dott, D. B.

**Quinine hypophosphite**

*Pharm. J.*, 108 (Jan. 28, 1922), 64

Dott, D. B.

**Sodium hypophosphite**

*Pharm. J.*, 108 (Jan. 28, 1922), 64

Fleury, E.

**Natural waters containing sodium sulphate**

*J. pharm. chim.*, 24 (Dec. 16, 1921), 476

Goodspeed, A. W.

**Radium**

*Am. J. Pharm.*, 94 (Feb. 1922), 115

Heyl, F. W., and Greer, F. E.

**Sodium hydrosulphite**

*Am. J. Pharm.*, 94 (Feb. 1922), 80

Hughson, W.

**Sodium chloride in headaches**

*J. Am. Med. Assoc.*; through *Pharm. J.*, 108 (Jan. 21, 1922), 47

Jones, A. J.

**Calcium phosphate**

*Pharm. J.*, 108 (Jan. 28, 1922), 62

Kraemer, H.

**Salt in headache**

*Drug. Circ.*, 66 (Feb. 1922), 48

Kraus, E. J.

**Volumetric assay of aluminum**

*Chem. Ztg.*; through *Pharm. J.*, 108 (Jan. 7, 1922), 8

Milian

**Arsenical conjunctivitis**

*Paris Med.*; through *Pharm. J.*, 108 (Jan. 1, 1922), 25

Minor, C. L.

**Calcium chloride in tuberculosis**

*Am. Drug.*, 70 (Jan. 1922), 34

Sibley

**Sodium tungstate in fire-proofing solutions**

*Drug. Circ.*, 66 (Feb. 1922), 61

Spence, A.

**Litharge or calamine**

*Pharm. J.*, 108 (Jan. 28, 1922), 64

Thomas, P., and Carpentier, G.

**A sensitive copper test**

*Comptes rend.*; through *J. Soc. Chem. Ind.*, 41 (Jan. 16, 1922), 37A

Van Leeuwen

**Potassium pyroantimoniate**

*Chem. Weekbl.*; through *Am. Drug.*, 70 (Jan. 1922), 21

**ORGANIC CHEMICALS.**

Acton, H. W.

**Pharmacology of cinchona alkaloids**

*Lancet*; through *Pharm. J.*, 108 (Jan. 28, 1922), 67

Anon

**Aromatic grass oils**

*Chem. & Drug.*, 96 (Jan. 14, 1922), 56

Anon

**Benzyl succinate**

*Prescriber*; through *Pharm. Zent.*, 63 (Jan. 12, 1922), 37

Baughman, W. F., and Jamieson, G. S.

**Composition of corn oil**

*J. Am. Chem. Soc.*, 43 (Dec. 1921), 2696

Blum, L., and Aubel, A.

**Degradation of valerianic acid in the blood**

*J. pharm. chim.*, 24 (Dec. 16, 1921), 492

Burrows, G. J., and Turner, E. E.

**Nitroprussic acid**

*J. Frank. Inst.*; through *Pharm. J.*, 108 (Jan. 21, 1922), 47

Cohen, B., and Smith, A. H.

**Colorimetric assay of hemoglobin**

*J. Biol. Chem.*; through *Am. Drug.*, 70 (Jan. 1922), 35

Cohn, R.

**The resorcin-sulphuric acid test for formaldehyde**

*Ber. dtsch. pharm. Ges.*, 31 (Dec. 1921), 423

Dumont

**Adrenalin in whooping cough**

*Med. Press*; through *Pharm. J.*, 108 (Jan. 28, 1922), 67

Gauss, H.

**Colorimetric test for morphine**

*J. Lab. Clin. Med.*; through *Pharm. J.*, 108 (Jan. 14, 1922), 25

Haden, R. L.

**Benzin poisoning**

*Bull. Johns Hopkins Hosp.*; through *Am. Drug.*, 70 (Jan. 1922), 34

Haley, D. E., and Lyman, J. F.

**Preparation and properties of castor oil lipase**

*J. Am. Chem. Soc.*, 43 (Dec. 1921), 2664

Harrisson, J. W. E.

**U. S. P. test for acetone in alcohol**

*J. AM. PHARM. ASSOC.*, 11 (Jan. 1922), 16

Hixon, R. M.

**Oil of catnip**

*J. AM. PHARM. ASSOC.*, 11 (Feb. 1922), 96

Hübscher

**Dehydrating alcohol**

*Seifensied. Ztg.*; through *Drug. Circ.*, 66 (Feb. 1922), 62

Hughes

**Ethyl chloride in ringworm**

*Brit. Med. J.*; through *Am. Drug.*, 70 (Jan. 1922), 35

Kalb, L.

**Arsanthrene**

*Ann.*; through *J. pharm. chim.*, 24 (Dec. 16, 1921), 479

Kondo, H., Kishi, N., and Araki, C.

**Constitution of matrin**

*J. Pharm. Soc. Japan*, No. 478 (Dec. 1921), 1047

Karrer and Nägeli

**Constitution of diamylose**

*Helv. Chim. Acta*; through *Pharm. Zent.*, 63 (Jan. 12, 1922), 34

Kramer

**Pharmacology of trichlorethylene**

*Berl. klin. Wsch.*; through *Drug. Circ.*, 66 (Feb. 1922), 61

Lautier, R.

**Oil of cedar in gonorrhoea**

*J. pharm. chim.*, 25 (Jan. 1, 1922), 46

Lautier, R.

**Sodium cinnamate in tuberculosis**

*J. pharm. chim.*, 25 (Jan. 1, 1922), 46

LaWall, C. H.

**Glucose in automobile anti-freezing mixtures**

*Am. J. Pharm.*, 94 (Feb. 1922), 97

Lyons, A. B.

**Detection of wood alcohol in alcoholic beverages**

*J. AM. PHARM. ASSOC.*, 11 (Jan. 1922), 12

Messner, J.

**Detection of benzyl compounds**

*Pharm. Zent.*, 63 (Jan. 5, 1922), 1

Nielson, C., and Higgins, J. A.

**Pharmacology of benzyl esters**

*J. Lab. Clin. Med.*; through *Pharm. J.*, 108 (Jan. 21, 1922), 47

Otrick

**Procaine in nose and throat work**

*J. Am. Med. Assoc.*; through *Am. Drug.*, 70 (Jan. 1922), 38

Park, E. A., and Howland

**Cod liver oil in rickets**

*Johns Hopkins Hosp. Bull.*; through *Pharm. J.*, 108 (Jan. 7, 1922), 8

Perling, A.

**Hydrolysis of bismuth salts of phenolcarbonic acids**

*Ber. deutsch. pharm. Ges.*, 31 (Dec. 1921), 433

Rupe, Seibarth and Kussmaul

**Derivatives of amino-methylene tetranitrate**

*Helv. Chim. Acta*; through *Pharm. Zent.*, 63 (Jan. 12, 1922), 20

Sabalitschka, T.

**Glucosanilid**

*Ber. deutsch. pharm. Ges.*, 31 (Dec. 1921), 439

Scala, A.

**Behavior of salts with gelatin**

*Ann. d'Igiene*; through *Pharm. J.*, 108 (Jan. 14, 1922), 25

Sherman, H. C., LaMer, V. K., and Campbell, H. L.

**Quantitative determination of the antiscorbutic vitamin**

*J. Am. Chem. Soc.*, 44 (Jan. 1922), 165

Simmons, W. H.

**Assay of phenols in volatile oils**

*Perf. Ess. Oil Rec.*; through *J. Soc. Chem. Ind.*, 41 (Jan. 16, 1922), 32A

Simonsen, J. L.

**Possibility of santonin production in India**

*J. Indian Ind.*; through *Pharm. J.*, 108 (Jan. 14, 1922), 25

Vaccarezza, R. F., and Inda, F. F.

**Ether in whooping cough**

*Sem. med.*; through *Pharm. J.*, 108 (Jan. 21, 1922), 47

Warren, L. E.

**Determination of digitoxin in digitan**

*J. AM. PHARM. ASSOC.*, 11 (Jan. 1922), 8

Zinn and Liepelt

**Therapeutics of erythrol tetranitrate**

*Ther. Gegenw.*; through *Pharm. Zent.*, 63 (Jan. 12, 1922), 25

**CLINICAL AND DIAGNOSTIC METHODS.**

Aubrey, P.

**Testing urine for bismuth**

*J. pharm. chim.*, 25 (Jan. 1, 1922), 15

Guillaumin, C. O.

**Assay of uric acid in the blood**

*J. pharm. chim.*, 25 (Jan. 1, 1922), 5

Hermann, M.

**Albard's urinary constant**

*Bull. acad. med. Belg.*; through *J. pharm. chim.*, 25 (Jan. 1, 1922), 36

Mazzoeco, P.

**Assay of calcium in the blood**

*Compt. rend. soc. biol.*; through *J. pharm. chim.*, 25 (Jan. 1, 1922), 33

Rabaut, and Stillmunkes

**Rapid assay of sulphur in urine**

*Progres. med.*; through *Schweiz. Apoth. Ztg.*, 60 (Jan. 5, 1922), 14

**MISCELLANEOUS.**

Anon

**Oil resisting paint**

*Chem. Trade J.*; through *Pharm. J.*, 108 (Jan. 7, 1922), 9

## COUNCIL BUSINESS

A. PH. A. COUNCIL LETTER NO. 8.

(Abstract)

WASHINGTON, D. C., February 3, 1922.

To the Members of the Council:

45. *Budget of appropriations for 1922—Approved.* Motion No. 39.

46. *Plan of procedure for Committee on A. Ph. A. Permanent Home (Item No. 41).* The motion to approve the plan submitted by Prof. Beal has received 3 negative votes. The vote will, therefore, be considered tentative and the whole matter is now before you for discussion.

Prof. R. A. Lyman of Nebraska submits the following comment with his vote:

"I am in favor of Motion No. 41, excepting Section No. 5. I see no good reason why the location for the permanent home should not be decided upon before the funds are raised. I am sure it would give an impetus to the contribution of funds if the location were decided upon at once."

47. *Distribution of copies of 1919 Year Book to members who joined after July 1, 1921.* Motion No. 43—Carried.

49. *Auditor's report on Treasurer's Office.* Jeff K. Stone & Company, St. Louis, Mo., submit the following report on the Treasurer's office:

January 26, 1922.

"We have examined the Books and Records of the American Pharmaceutical Association, in the Office of the Treasurer, for its fiscal year ended December 31, 1921, and we found that all recorded Cash Receipts were accounted for through Bank Deposits and all Cash Disbursements were evidenced by properly signed checks on file.

"The Balances in Bank, as called for by the records, were verified by direct communication with the Depositories. All Investment Securities appearing upon the records as being owned by the Association, were submitted for our inspection in the Safe De-