

BIBLIOGRAPHY OF PHARMACEUTICAL RESEARCH

Conducted by H. V. Army, 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 that appear in the pharmaceutical and other scientific journals of the world. Whenever possible, 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. Army, 115 West 68th St., New York, and arrangements can also be made for securing photographic reproduction of entire articles at moderate prices when such are desired.

APPARATUS AND MANIPULATIONS.

Anon

New dose measuring device

Pharm. Zent., 62 (May 5, 1921), 274

Anon

Rubber rings for test tubes

Chem. News, 123 (July 1, 1921), 7

Couch, J. F.

Studies in extraction

Am. J. Pharm., 93 (June 1921), 419

Friedrichs, F.

New melting point apparatus

Z. angew. Chem.; through *Pharm. Ztg.*, 66 (June 8, 1921), 484

Luther, R.

New form of separatory funnel

Z. angew. Chem.; through *Pharm. Zent.*, 62 (June 23, 1921), 382

Rosenthaler, L.

Analytical methods of the Swiss Pharmacopoeia

Schweiz. Apoth. Ztg., 59 (June 16, 1921), 317

PHARMACEUTICAL PREPARATIONS.

Albertus

Concentrated iron solution

Farm. Revy.; through *Pharm. Zent.*, 62 (June 23, 1921), 383

Bohrisch, P.

Compound solution of cresol

Pharm. Zent., 62 (May 5, 1921), 265; 62 (May 12, 1921), 281; and 62 (May 19, 1921), 297

Delestrac

Preparation of iodine gauze

Rept. Pharm.; through *Pharm. Zent.*, 62 (June 9, 1921), 352

Evers, N., and Caines, C. M.

Assay of formaldehyde in tablets

Chem. & Drug., 94 (June 18, 1921), 833

Foster, H. J.

Assay of atropine and cocaine in ointments
Chem. & Drug., 94 (June 16, 1921), 842

Haas, P.

Irish moss mucilage

Chem. & Drug., 94 (June 18, 1921), 847

Jordan, C. J., and Southerden, F.

Assay of cresol in cresol soap solutions

Chem. & Drug., 94 (June 18, 1921), 843

Murray, A. C.

Assay of terpin hydrate in its elixir

J. AM. PHARM. ASSOC., 10 (June 1921), 440
Ugarte, T.

Assay of iodine in iodotannic syrups

Anal. Assoc. Quin-Argentina; through *J. Soc. Chem. Ind.*, 40 (June 30, 1921), 447A

GENERAL BOTANY AND BACTERIOLOGY.

Ciamician, G., and Ravenna, C.

Biological significance of alkaloids in plants

Compt. rend.; through *Pharm. Ztg.*, 66 (June 8, 1921), 483

Franzen, H.

Chemical constituents of green plants

Südd. Apoth. Ztg., through *Pharm. Ztg.*, 66 (June 8, 1921), 483

Holm, T.

Diagnostic elements in drug anatomy

J. AM. PHARM. ASSOC., 10 (June 1921), 450

Kraemer, H.

Plant colors

Am. J. Pharm., 93 (June 1921), 414

Lumière, A.

Germination of seeds

L' Avenir med.; through *Schweiz. Apoth. Ztg.*, 59 (June 16, 1921), 323

Pack, D. A.

Germination of seeds

Bot. Gaz.; through *Schweiz. Apoth. Ztg.*, 59

(June 23, 1921), 334
 Van Wisselingh
 Seed-coats of the Solanaceae
Pharm. Weekbl., 58 (June 4, 1921), 788, and
 (June 11, 1921), 815

THERAPEUTICS AND NEW REMEDIES.

Hofmann and Taub
 Antileprol
Pharm. Zent., 62 (May 5, 1921), 276
 Kroll, S.
 A cancer nostrum
Apoth. Ztg.; through *Pharm. Zent.*, 62 (June
 30, 1921), 397

VEGETABLE AND ANIMAL MATERIA
MEDICA.

Adler, F.
 Ash content of various drugs
Pharm. Zent., 62 (June 30, 1921), 399
 Aschan, O.
 New constituents of rosin
Ber.; through *J. Soc. Chem. Ind.*, 40 (June 30,
 1921), 439A
 Baker, J. A.
 Bleached coriander
J. AM. PHARM. ASSOC., 10 (June 1921), 453
 Barnes, E. R.
 Vanilla beans
Drug. Circ., 65 (July 1921), 262
 Davies, E. C.
 Phosphotungstic assay of colchicum
Chem. & Drug., 94 (June 18, 1921) 850
 Deane, H., and Edmonton, W. E.
 Ether solubility of scammony resin
Chem. & Drug., 94 (June 18, 1921), 833
 Duffour
 Crystalline constituents of coniferous resins
Rev. Sci.; through *J. pharm. chim.*, 23 (June
 1, 1921), 464
 Dupont, G.
 Acids of maritime pine resin
Comptes rend.; through *J. Soc. Chem. Ind.*,
 40 (June 30, 1921), 439A
 Gathercoal, E. N., and Terry, R. E.
 The capsicum monograph in U. S. P. IX
J. AM. PHARM. ASSOC., 10 (June 1921), 423
 Goris and Vischniak
 Alkaloids of valerian
Comptes rend.; through *J. Soc. Chem. Ind.*,
 40 (June 15, 1921), 409A
 Heinz
 Yeast extract as stomachic and excipient
Therap. Gegenw.; through *Pharm. Ztg.*, 66
 (June 11, 1921), 491
 Holmes, E. M.
 Elder flowers
Pharm. J., 106 (June 4, 1921), 426
 Jonsson
 Testing storax
Farm. Revy.; through *Pharm. Ztg.*, 62 (June 23,
 1921), 383
 McCoy, G. W., and Chapin, C. W.
 Antiplague vaccine
Pub. Health Rept.; through *Pharm. Era*, 54
 (July 1921), 251
 Newcomb, E. L., Rogers, C. H., and Folkstad,
 C. W.
 Podophyllum ash standards
Am. J. Pharm., 93 (June 1921), 429
 Oesterle, O. H.
 Volatile bodies in frangula
Schweiz. Apoth. Ztg., 59 (June 30, 1921), 341
 Saaman, K.
 Pharmacology of digitalis
Chem. & Drug., 94 (June 18, 1921), 850
 Sabalitchka, T.
 Constituents of *Drosera rotundifolia*
Südd. Apoth. Ztg.; through *Pharm. Ztg.*, 66
 (June 8, 1921), 484
 Siegfried, K.
 Hydrocyanic acid content of cherry laurel
 leaves
Schweiz. Apoth. Ztg., 59 (June 16, 1921), 325
 Smythe, C. E., and Newcomb, E. L.
 Ash yield of gentian
J. AM. PHARM. ASSOC., 10 (June 1921), 457
 Tate, G.
 Influence of heat and moisture on ergot and its
 preparations
Chem. & Drug., 94 (June 18, 1921), 848
 Tate, G.
 Stability of infundibular extract
Chem. & Drug., 94 (June 18, 1921), 848
 Van Itallie, E. I.
 Ursone in *Viscum album*
Pharm. Weekbl., 58 (June 11, 1921), 824
 Van Laer, M. H.
 Enzymes of malt
J. pharm. chim., 23 (May 16, 1921), 435
 Vaughan
Vitex peduncularis as quinine surrogate
Brit. Med. J.; through *Chem. & Drug.*, 94
 (June 25, 1921), 903
 Willstätter, R., Oppenheimer, T., and Steibelt,
 W.
 Preparation of solution of maltose from yeast
Z. physiol. chem.; through *J. pharm. chim.*, 23
 (June 1, 1921), 467
 Wong, Y. C.
 Constituents of American ginseng root
J. AM. PHARM. ASSOC., 10 (June 1921), 431

Yanagasawa, H.
Japanese bird lime

J. Pharm. Soc. Japan., 70 (May 1921), 405

GENERAL AND PHYSICAL CHEMISTRY.

Evers, N.

Alkaloidal titrations

Chem. & Drug., 94 (June 18, 1921), 834

Graber, H. T.

Enzyme action and hydrogen ion concentration

J. AM. PHARM. ASSOC., 10 (June 1921), 417

Korevaar, A.

Chemical affinity

Chem. News, 123 (July 1, 1921), 8

Kubut, O.

Magnesia mixture reagent

Chem. Ztg.; through *Pharm. Era*, 54 (July 1921), 251

Martin, F.

The system, picric acid; sodium thiosulphate

J. pharm. chim., 23 (June 1, 1921), 452

Nivière, J.

Catalytic hydrogenation

Bull. soc. chim.; through *J. Soc. Chem. Ind.*, 40 (June 15, 1921), 409A

Rutherford, E.

Stability of atoms

Chem. News, 123 (July 8, 1921), 25

Sakoschansky, A.

Numerical relationship between calcium and strontium

Chem. News, 123 (July 8, 1921), 20

Sarnagiotto, E.

Chemical action of light

Chem. News, 123 (July 8, 1921), 27

Von Frederichs, O.

Preparation of Nessler's Reagent

Arch. Pharm., 269 (June 15, 1921), 158

INORGANIC CHEMICALS.

Camescasse and Bisot

Manganese in therapeutics

Bull. Soc. Therap.; through *Pharm. Era*, 54 (July 1921), 251

Corfield, C. E., and Woodward, Elsie

Assay of sodium arsenate

Chem. & Drug., 94 (June 18, 1921), 837

Gallois, P.

Permanganate of silver as urinary antiseptic

J. pharm. chim., 23 (May 16, 1921), 438

Jones, A. J.

Assay of bromides in saline and halogen mixtures

Chem. & Drug., 94 (June 18, 1921), 840

Kockel & Zimmerman

Toxicity of fluorine compounds

Münch. med. Wsch.; through *Pract. Drug.*, 39 (July 1921), 36

Kohn-Abrest

Toxicological assay of arsenic

Ann. chim. analyst.; through *Pharm. Zent.*, 62 (June 30, 1921), 396

Kolthoff, I. M.

Argentometric assay of iodides

Pharm. Weekbl., 58 (June 25, 1921), 917

Kolthoff, I. M.

Assay of bases combined with weak acids

Pharm. Weekbl., 58 (June 18, 1921), 885

Kolthoff, I. M.

Iodometric assay of arsenous acid

Pharm. Weekbl., 58 (May 28, 1921), 737

McLachlan, T.

Assay of nitrates in bismuth salts

Chem. & Drug., 94 (June 18, 1921), 841

Millikin, R. A.

The significance of radium

Science, 54 (July 1, 1921), 1

Morris, R. L.

Titration assay of arsenates

Chem. & Drug., 94 (June 18, 1921), 838

Sherk, D. C. L.

Methoxyl determinations of the monarda oils

J. AM. PHARM. ASSOC., 10 (June 1921), 417

Staddon, D. R.

Quality of hydrogen dioxide

Am. Drug., 69 (July 1921), 24

ORGANIC CHEMICALS.

Bennett, C. T., and Windle, F. B.

Assay of theobromine-sodium salicylate

Chem. & Drug., 94 (June 18, 1921), 836

Bennett, C. T.

Liquefied phenol

Chem. & Drug., 94 (June 18, 1921), 836

Bertrand, G., and Compton, A.

A curious modification of emulsin

Bull. soc. chim.; through *J. Soc. Chem. Ind.*, 40 (June 15, 1921), 404A

Blumann, A., and Zeitschel, O.

Verbenene and its derivatives

Ber.; through *J. Soc. Chem. Ind.*, 40 (June 30, 1921), 448A

Chapin, R. M.

Improved Denigès test for methyl alcohol

J. Ind. Eng. Chem., 13 (June 1921), 543

Cofman

Preparation of di-iodosalicylic acid

Gazz. chim. ital.; through *Chem. & Drug.*, 94 (June 25, 1921), 898

Corfield, C. E., and Eastland, C. J.

Assay of hydrocyanic acid

Chem. & Drug., 94 (June 18, 1921), 849

- Corfield, C. E., and Boyes, G. R.
Commercial bismuth phenate
Chem. & Drug., 94 (June 18, 1921), 847
- Davy, E. D.
Assay of sodium benzoate in oleomargarine
J. AM. PHARM. Assoc., 10 (June 1921), 458
- Ducloux, E. H.
Oil from *Cynara cardunculus*
Anal. Soc. Quim. Argentina; through *J. Soc. Chem. Ind.*, 40 (June 15, 1921), 396T
- Emery, W. O.
Assay of salicylates
J. Ind. Eng. Chem., 13 (June 1921), 538
- Funcke, Y.
Brodie's melen
Arch. Pharm., 259 (June 15, 1921), 93
- Furukawa, S., and Tomizawa, Z.
Volatile oil of *Perilla nankinensis*
J. Soc. Chem. Ind. Japan; through *J. pharm. chim.*, 23 (May 16, 1921), 426
- Gadamer, J., and Knoch, F.
Action of chlorocarbonic acid on certain alkaloids
Arch. Pharm., 259 (June 15, 1921), 135
- Gadamer, J., and Hammer, F.
Scopolin
Arch. Pharm., 259 (June 15, 1921), 110
- Ganassini, D.
Toxicological detection of morphine
Bull. chim. pharm.; through *J. Soc. Chem. Ind.*, 40 (June 30, 1921), 446A
- Grayson, E.
Vital vitamines
Am. Drug., 69 (July 1921), 27
- Grün, A.
Ethyl esters of the fat acids
Chem. Umschau; through *Pharm. Zent.*, 62 (May 19, 1921), 307
- Haehn, H.
Decomposition of tyrosinase
Biochem. Zsch.; through *J. pharm. chim.*, 23 (June 1, 1921), 467
- Hérissey, H.
Hydrolysis of methyl d-mannoside by enzymes
J. pharm. chim., 23 (May 16, 1921), 409
- Herzog, M.
Nature of enzymes
Am. Drug., 69 (July 1921), 62
- Hibma, A. M.
A new albumin reaction
Dtsch. med. Wsch.; through *Pharm. Ztg.*, 66 (June 4, 1921), 471
- Huerer, R.
Oil content of *Juniperus oxycedrus*
J. pharm. chim., 23 (June 1, 1921), 441
- Juillet, A.
Oil of cade
Am. Drug., 69 (July 1921), 25
- Karrer, P., and Widmer, F.
Constitution of cellobiose
Helv. Chim. Acta; through *J. Soc. Chem. Ind.*, 40 (June 15, 1921), 402A
- Kellner, J.
Testing glycerin for purity
Chem. Umschau; through *Pharm. Zent.*, 62 (June 16, 1921), 366
- King, H.
Sulphur compounds in commercial salvarsan
Chem. & Drug., 94 (June 11, 1921), 790
- Koßler, L.
Cineol from thyme
Pharm. Monatsh.; through *Pharm. Ztg.*, 66 (June 8, 1921), 484
- Legrand,
Assay of maltose and lactose
L'Union pharm.; through *Drug. Circ.*, 65 (July 1921), 245
- Livingston, A. E.
Toxicity of thymol and carvacrol
J. Pharmacol. Exp. Therap.; through *Am. J. Pharm.*, 93 (June 1921), 447
- Lizius, J. L.
Assay of phosphate in glycerophosphates
Chem. & Drug., 94 (June 18, 1921), 841
- McKee, R. H., and Strauss, F. A.
Synthesis of benzoic acid from benzene
Chem. Met. Eng.; through *J. Soc. Chem. Ind.*, 40 (June 15, 1921), 410A
- McKie, P. V.
Determining the purity of saccharin
J. Soc. Chem. Ind., 40 (June 30, 1921), 151T
- Murchauser, H.
Influence of certain chemicals on the rotation of dextrose
Biochem. Zsch.; through *J. pharm. chim.*, 23 (June 1, 1921), 470
- Naumann, B., and Schneider, H.
Conversion of acetylene into acetaldehyde
Südd. Apoth. Ztg.; through *Pharm. Zent.*, 62 (June 2, 1921), 336
- Ochi, S.
Mechanism of manufacture of chloroform from alcohol
J. Soc. Chem. Ind., Japan; through *J. Soc. Chem. Ind.*, 40 (June 30, 1921), 447A
- Perrot, E., and Lecoq, R.
Food and vitamines
Bull. Sci. Pharm.; through *Pharm. J.*, 106 (June 4, 1921), 453
- Schneider, W.
Fatty acids from hydrocarbons
Chem. Umschau; through *Pharm. Zent.*, 62

- (May 5, 1921), 273
 Schrauth, W.
 Hexalrin and its uses
Seifenfab.; through *J. Soc. Chem. Ind.*, 40
 (June 15, 1921), 397A
 Schulak, E.
 Determination of saponification, iodine and
 acid bromine number of fats
Pharm. Zent., 62 (June 30, 1921), 391
 Shinozaki, Y.
 Volatile oil of *Juniperus taxifolia*
J. Chem. Ind. Japan; 40 (June 15, 1921), 411A
 Shinoxaki, Y.
 Volatile oil of *Vitex trifolia*
J. Chem. Ind. Japan; through *J. Soc. Chem.*
Ind., 40 (June 15, 1921), 411A
 Simonsen, J. L.
 Volatile oil of *Skimmia laureola*
J. Soc. Chem. Ind., 40 (June 15, 1921), 127T
 Spaeth, E., and Sobel, P.
 Synthesis of hordenin
Monatsh.; through *J. pharm. chim.*, 23 (May
 16, 1921), 427
 Tanret,
 Quinic acid in the leaves of *Coniferae*
Compt. rend.; through *Drug. Circ.*, 65 (July
 1921), 261
 Tiffeneau, M.
 Stability of ouabain
Pharm. Ztg., 66 (June 8, 1921), 483
 Tinkham, A. F.
 Detecting adulteration in bergamot oil
Bull. Mass. Coll. Pharm.; through *Nat. Drug.*,
 51 (July 1921), 353
 Ugarte, T.
 Caffeine assay
Anal. Soc. Quim Argentina; through *J. Soc.*
Chem. Ind., 40 (June 15, 1921), 408A
 Waser, E.
 The centenary of quinine
Schweiz. Apoth. Ztg., 59 (June 23, 1921), 330,
 and 59 (June 30, 1921), 345
 Wilson, C. P.
 Manufacture of citric acid from lemons
J. Ind. Eng. Chem., 13 (June 1921), 554
 Wolff, H.
 Manufacture of glycol
Chem. Umschau; through *Pharm. Zent.*, 62
 (May 19, 1921), 306
 Zelada, M. F.
 Oil of *Tagetes anisata*
Am. Per. J.; through *Chem. & Drug.*, 94 (June
 25, 1921), 890
- CLINICAL AND DIAGNOSTIC METHODS.
 Hedberg, F.
 Detection of blood in feces
Farm. Revy.; through *Pharm. Zent.*, 62 (June
 2, 1921), 336
- MISCELLANEOUS.
 Junker
 Lead in cosmetics
Pharm. Zent., 62 (May 19, 1921), 271

COUNCIL BUSINESS

A. PH. A. COUNCIL LETTER NO. 22. (Abstract.)

WASHINGTON, D. C., July 13, 1921.

94. *Personnel of committees to draw up resolutions on the death of Henry P. Hynson and George B. Kauffman:* Henry P. Hynson—E. F. Kelly, Chairman, Baltimore, Md., J. C. Peacock, Philadelphia, and John F. Hancock, Baltimore. George B. Kauffman—J. H. Beal, Chairman, Urbana, Ill., Julius Koch, Pittsburgh, Pa., and Miss Anna M. Bagley, Columbus, Ohio. (Items 81, 84 and 89.)

95. *B. L. Murray of Rahway, N. J., elected chairman of the Committee on Standards for Drugs and Chemical Products (Item 92).*

96. *Applicants Nos. 507 to 535 inclusive, elected.*

97. *Council Business at New Orleans.* At the last meeting of the Council held in Wash-

ington, D. C., on May 10, 1920, it was decided that the Secretary should inform the members of the Council of the business to be transacted at the next meeting in advance of the date of holding the meeting in order that the completion of the work might be expedited. The Secretary requests such communications.

98. *The following applications for active membership have been submitted:*

No. 536, Morris L. Rottenberg, 431 Sutter Ave., Brooklyn, N. Y.; No. 537, Ferdinand P. Silber, 3250 Burnet Ave., Cincinnati, Ohio; No. 538, Justin George Zverina, 12210 Miles Ave., Cleveland, Ohio; No. 539, George Belohoubek, 2688 Woodhill Rd., Cleveland, Ohio; No. 540, Donald West Hasbrouck, 1617 Doan Ave., E. Cleveland, Ohio; No. 541, Albert Paul Metzgar, Kenmore Drug Co., Kenmore, Ohio; No. 542, Fred Wilbur Neuman, 632 Greenfield St., S. W., Canton, Ohio; No.