

I. Allgemeines.

- Anonymus. 1915.** Bericht über den Botanischen Garten und das Botanische Museum zu Berlin im Rechnungsjahr 1914. (N.blatt kgl. bot. Gart. u. Mus. Berlin-Dahlem. 1915. p. 237—259.)
- Cavers, F. 1915.** Junior botany. (London, W. B. Clive. 1915. 288 pp. Price 2 s. 6 d.)
- Hansen, A. 1914.** Goethe's naturwissenschaftliche Sammlungen im Neubau des Goethehauses zu Weimar. (Naturw. Wschr. XIII. p. 577—579. ill.)
- Lunell, J. 1908.** New matter of the season. (Bull. Leeds Herb. 1908. 2.)
- Winkler, H. 1914.** Hamburgische Botanische Staatsinstitute. Institut für allgemeine Botanik. Bericht für das Jahr 1913. (Jahrb. hamburg. wiss. Anst. XXXI. p. 1—46.)

II. Anatomie.

(Vacat.)

III. Biologie.

- Cuthbert, H. E. 1915.** Bees and colour selection. (Irish Nat. XXIV. p. 156.)
- Heske, F. 1914.** Die Gewohnheitsrassen pflanzlicher Parasiten. (Cbl. ges. Forstw. Wien. XL. p. 369—375.)
- Heske, F. 1914.** Die Spezialisierung pflanzlicher Parasiten auf bestimmte Organe und Entwicklungsstadien des Wirtes. (Cbl. ges. Forstwesen. XL. p. 272—278.)
- Hess, C. 1914.** Experimentelle Untersuchungen über den angeblichen Farbensinn der Bienen. (Zool. Jahrb. Abt. allg. Zool. XXXIV. p. 81—106. 5 F.)
- Williams, A. 1913.** Carniverous plants of Ohio. (Ohio Nat. XIII. p. 97—99.)

IV. Morphologie, Teratologie, Befruchtung, Cytologie.

- Chase, A. 1915.** A teratological specimen of *Panicum amarulum*. Hitchc. & Chase. (Rhodora. XVII. p. 72.) [Multiplication of glumes to as many as fifteen, as frequently found in *Ichnanthus*. — Trelease.]
- Daněk, G. 1915.** Neue Beiträge über die Bedeutung der Phyllokladien bei Asparageen. (Věstník V. sjez. čes. přír. 1915. p. 349. Böhmisch.)
- Daněk, G. 1915.** Ueber Zusammenschmelzen von Blütenpartien. (Věstník V. sjez. čes. přír. 1915. p. 333. Böhmisch.)
- Duthie, N. V. 1915.** Note on apparent apogamy in *Pterygodium newdigatae*. (Roy. Soc. S. Africa Meeting of 16th June 1915.)
- Molliard, M. 1914.** Modifications sexuelles chez le *Picea morinda*. (Rev. gén. Bot. XXVI. p. 454—457. 1 f.)
- Singer, A. 1914.** Abnorme Triebentwicklung bei der Birke. (Oesterr. Forst- u. Jagdztg. XXXII. p. 135—136. 1 F.)
- Weir, J. R. 1914.** The polyembryony of *Razoumofskyia* species. (Phytopathology. IV. p. 385—386.)

V. Varietäten, Descendenz, Hybriden.

- Bartlett, H. 1915.** The experimental study of genetic relationships. (Amer. Journ. Bot. II. p. 132—155.)
- Belling, J. 1915.** Inheritance of pod pubescence and partial sterility in *Stizolobium* crosses. (Rept. Florida Agr. Exper. Stat. 1914 [1915]. p. LXXXII—CV. 3 f.)
- Blake, S. F. 1915.** *Betula glandulosa* Michx. var. *sibirica* (Ledeb.) n.

- comb. (*Rhodora*. XVII. p. 87.) [To replace *Betula nana* L. *B. sibirica* Ledeb. — Trelease.]
- Blake, S. F. 1915.** *Moneses uniflora* var. *reticulata*. (*Rhodora*. XVII. p. 28—29.) [A new combination for *Moneses reticulata* Nutt. — Trelease.]
- Blakeslee, A. F. 1914.** Corn and men. (*Journ. of Heredity*. V. p. 511—518. 4 f.)
- Brown, H. B. 1913.** Form and structure of certain plant hybrids in comparison with the form and structure of their parents. (*Techn. Bull. Mississippi agr. Exp. Stat.* 1913. 3.)
- Brožek, A. 1915.** Ueber das Auftreten von pokalförmig zusammenwachsenden Cotyledonen in Kulturen von *Mimulus quinquevulnerus* bei stetiger Autogamie der Kulturexemplaren. (*Věstník V. sjez. čes. přír.* 1915. p. 367. Böhmisch.)
- Brožek, A. 1915.** Ueber die Isolierung von reinen Linien bei der Dominanz und Intermediertät der Merkmalen. (*Věstník V. sjez. čes. přír.* 1915. p. 366. Böhmisch.)
- Chapin, W. S. 1914.** Heredity in chimeras. (*Journ. of Heredity*. V. p. 533—546. 7 f.)
- Fernald, M. L. 1914.** The varieties of *Ranunculus Cymbalaria*. (*Rhodora*. XVI. p. 160—163.)
- Fernald, M. L. 1914.** The West Virginian variety of *Polygonum cilinode*. (*Rhodora*. XVI. p. 165—166.) [*Polygonum cilinode laevigatum* is described as new. — Trelease.]
- Fernald, M. L. 1914.** The western variety of *Maianthemum canadense*. (*Rhodora*. XVI. p. 210—211.) [Segregated as *Maianthemum canadense interius*. — Trelease.]
- Fernald, M. L. and J. F. Macbride. 1914.** The North American variations of *Arctostaphylos Uva-ursi*. (*Rhodora*. XVI. p. 211—213.) [Three forms are segregated, of which *Arctostaphylos Uva-ursi coactilis* and *A. Uva-ursi adenotricha* are described as new. — Trelease.]
- Hill, A. F. 1914.** A pubescent variety of the dwarf raspberry. (*Rhodora*. XVI. p. 151—152.) [*Rubus pubescens pilosifolius* is characterized as new. — Trelease.]
- Mc Lendon, C. A. 1912.** Mendelian inheritance in cotton hybrids. (*Bull. Georgia agr. Exp. Stat.* 1912. 99.)
- Nachtshelm, H. 1914.** Die Bedeutung des Mengenverhältnisses mütterlicher und väterlicher Substanzen für die Vererbung. (*Natw. Wschr.* XIII. p. 585—587.)
- Nieuwland, J. A. 1914.** A new variety of *Sambucus*. (*Amer. Midl. Nat.* III. p. 310. [*Sambucus pubens xanthocarpa* (*S. racemosa xanthocarpa*). — Trelease.]
- Pease, A. S. 1914.** A form of *Potentilla tridentata*. (*Rhodora*. XVI. p. 194—195. Nov. 1914.) [*Potentilla tridentata hirsutifolia*. — Trelease.]
- Popenoe, P. 1914.** Origin of the date palm. (*Journ. of Heredity*. V. p. 498—508. 5 f.)
- Popenoe, P. 1914.** Plant chimeras. (*Journ. of Heredity*. V. p. 521—532. 10 f.)
- Römer, J. 1913.** Mutation der Zwerghyazinthe. (*Natur.* 1913. p. 480.)
- Uhrlaub, J. C. 1914.** A degenerated rose blossom. (*Journ. of Heredity*. V. p. 510.)

VI. Physiologie.

- Agulhon, H. et T. Robert. 1915.** Contribution à l'étude de l'action du

- radium et de son émanation sur la germination des végétaux supérieurs. (Ann. Inst. Pasteur. XXIX. p. 261—273.)
- Brown, W. H. 1912.** The relation between soil moisture content and the conditions of the aerial environment of plants at the time of wilting. (John Hopkins Univ. Circ. 1912. p. 136—138.)
- Brown, W. H. 1912.** The relation of evaporation to the water content of the soil at the time of wilting. (Plant World. XV. p. 121—134.)
- Cannon, W. A. 1915.** On the relation of root growth and development to the temperature and aeration of the soil. (Amer. Journ. Bot. II. p. 211—224. 5 f.)
- Faack, K. 1914.** Beitrag zur Frage der Funktionen des Kalziums in der Pflanze. (Mitt. landw. Lehrkanz. k. k. Hochschule Bodenk. Wien. II. p. 175—207.)
- Faack, K. 1913.** Untersuchungen über die Rolle einzelner Nährstoffe im Haushalte höherer Pflanzen. (Mitt. landw. Lehrkanz. k. k. Hochschule Bodenkult. Wien. I. p. 443—509.)
- Fischer, M. H. and A. Sykes. 1913.** Non electrolytes and the colloid-chemical theory of water absorption. (Science. N. S. XXXVIII. p. 486—487.)
- Fuller, G. D. 1912.** Germination and growth of the cotton-wood upon the sand dunes of Lake Michigan near Chicago. (Trans. Ill. Ac. Sc. V. p. 137—143. 6 f.)
- Hamlin, M. L. 1913.** Experiments on the availability of glucosamine hydrochloride as a source of nitrogen for the nutrition of corn (*Zea mays*) and beans (*Phaseolus multiflorus*). (Journ. Amer. Chem. Soc. XXXV. p. 1046—1049.) [The indications are that the compound glucosamine hydrochloride has no nutritive value for the plants used. — G. L. Foster (St. Louis)]
- Harvey, E. N. 1913.** A criticism of the indicator method of determining cell permeability for alkalies. (Amer. Journ. Physiol. XXXI. p. 335—342.)
- Henry, A. M. 1913.** The ripening of oranges. (Proc. Fla. State hort. Soc. 1913. p. 192—199.)
- Jones, W. R. 1912.** The digestion of starch in germinating peas. (John Hopkins Univ. Circ. 1912. p. 139—140.)
- Mathews, A. P. 1913.** Adaptation from the point of view of the physiologist. (Amer. Nat. XLVII. p. 90—104.)
- Mc Nutt, W. and G. D. Fuller. 1912.** The range of evaporation and soil moisture in the Oak-Hickory Forest Association of Illinois. (Trans. Ill. Ac. Sc. V. p. 127—137. 6 f.)
- Nestler, A. 1914.** Indirekte Infektion durch das Primelhautgift. Die Umschau. 1914. p. 165—167.)
- Przibram, H. 1913.** Grüne tierische Farbstoffe. (Pflüger's Arch. ges. Physiologie Menschen u. Tiere. CLIII. 8.)
- Reed, H. S. 1911/12.** The enzyme activities involved in certain fruit diseases. (Rep. Va. agr. Exp. Stat. 1911/12. p. 51—77.)
- Reed, H. S. and J. S. Cooley. 1911/12.** The effect of the cedar rot upon the assimilation of carbon dioxide by apple leaves. (Rep. Va. agr. Exp. Stat. 1911/12. p. 91—94.)
- Schneider, E. C. 1912.** A nutrition investigation on the insoluble carbohydrates or marc of the apple. (Amer. Journ. Physiol. XXX. p. 258—270.)
- Schreiner, O. and J. J. Skinner. 1913.** Experimental study of the effect of some nitrogenous soil constituents on growth. Nucleic acid and its decomposition products. (Plant World. XVI. p. 45—60.)

Spargo, M. 1912. The heat produced by leaves. (Plant World. XV. p. 277—293.)

Wasniewsky, S. 1914. Der Einfluss der Temperatur, des Lichtes und Ernährung mit Stickstoff und Mineralstoffen auf den Stoffwechsel in den Keimpflanzen des Weizens. (Bull. Ac. Sc. Cracovie. 1914. B. p. 615—686.)

VII. Palaeontologie.

Bayer, E. 1915. Mikroskopische Praeparate der Kutikula der fossilen Pflanze *Sclerophyllum alatum* K. Feist. (Bull. V. Kongr. böhmisch. Natf. 1915. p. 324.)

Carpentier, A. 1915. Note sur des empreintes des *Whittleseya* (?) *fertilis* Kidston sp. trouvées dans le houiller du Nord de la France. (Bull. Soc. bot. France. LXI. p. 363—367. 1 pl.)

VIII. Microscopie.

Leinburg, M. v. 1914. Das Thalassioskop. (Die Umschau. 1914. p. 289—290. 2 F.)

Magnus, G. 1914. Konservierung von Dauerpräparaten in konzentrierter Zuckerlösung. (Berlin. klin. Wschr. 1914. p. 636.)

IX. Cryptogamen im Allgemeinen.

(Vacat.)

X. Algae.

Cf. VIII. v. Leinburg.

Buchheim, A. 1915. Der Einfluss des Aussenmediums auf den Turgordruck einiger Algen. (Diss. Bern und Mitt. natf. Ges. Bern. 1915. 71 pp. 1 T.)

Curtis, O. F. and R. H. Colley, 1915. Picro-nigrosin, a combination fixative and stain for algae. (Amer. Journ. Bot. II. p. 89—92.)

Lambert, F. D. 1910. Two new species of *Characium*. (Tufts Coll. Stud. III. p. 1—11. 1 pl.)

Schiller, J. 1914. Bericht über die allgemeinen biologischen Verhältnisse der Flora des Adriatischen Meeres. (Int. Rev. ges. Hydrobiol. 1914. 15 pp. 9 F.)

Schiller, J. 1914. Bericht über Ergebnisse der Nannoplanktonuntersuchungen anlässlich der Kreuzungen S. M. S. *Najade* in der Adria. (Int. Rev. ges. Hydrobiol. 1914. 15 pp. 1 T.)

XI. Eumycetes.

Anderson, P. J. and H. W. 1912. The Chestnut blight fungus and a related saprophyte. (Phytopathology. II. p. 204—210.) [The name *Endothia virginiana* is published for the saprophyte, — but without description. — Trelease.]

Arthur, J. C. 1913. Uredinales on *Carex* in North America. (Mycologia. V. p. 240—244.)

Bachmann, H. 1915. Pilzstudien an Pferdemit. (Mikrokosmos. 1915. p. 20—24. 3 A. Forts. folgt.)

Banker, H. J. 1912. Type studies in the Hydnaceae. I. The genus *Manina*. (Mycologia. IV. p. 271—278.)

Banker, H. J. 1912. Type studies in the Hydnaceae. II. The genus *Steccherinum*. (Mycologia. IV. p. 309—318.)

Banker, H. J. 1913. Type studies in the Hydnaceae. III. The genus *Sarcodon*. (Mycologia. V. p. 12—17.)

- Banker, H. J. 1913.** Type studies in the Hydnaceae. IV. The genus *Phellodon*. (Mycologia. V. p. 62—66.)
- Banker, H. J. 1913.** Type studies in the Hydnaceae. V. The genus *Hydnellum*. (Mycologia. V. p. 194—205.)
- Banker, H. J. 1913.** Type studies in the Hydnaceae. VI. The genera *Creolophus*, *Echinodontium*, *Gloiodon* and *Hydnodon*. (Mycologia. V. p. 293—298.)
- Bauer, F. M. 1912.** Cultivating *pleurotus sapidus*. (Mycologia. IV. p. 159. 1 f.)
- Bezdek, J. 1915.** Ueber die Gattung *Amanita*. (Věstník V. sjez. čes. lék. a přír. 1915. p. 348. Böhmisch.) [Eine zusammenfassende Uebersicht der genannten Gattung, die morphologischen, anatomischen, biologischen, systematischen und wirtschaftlichen Daten enthält. — Jar. Stuchlík.]
- Blakeslee, A. J. 1915.** Lindners roll tube method of separation cultures. (Phytopathology. V. p. 68—70. 1 pl.)
- Burlingham, G. S. 1913.** The Lactarieae of the pacific coast. (Mycologia. V. p. 305—311.)
- Campbell, D. H. 1915.** The morphology and systematic position of *Podomitrium*. (Amer. Journ. Bot. II. p. 199—210. 7 f.)
- Cleland, J. B. and E. Cheel. 1915.** Notes on Australian Fungi. N^o 1. (Journ. and Proc. r. Soc. N. S. Wales. XLVIII. p. 433—443.)
- Coker, W. C. 1912.** *Achlya Debaryana* Humphrey and the prolifera group. (Mycologia. IV. p. 319—324. 1 pl.)
- Coker, W. C. 1912.** *Achlya glomerata* sp. nov. (Mycologia. IV. p. 325—326. 1 pl.)
- Conard, H. S. 1913.** The structure of *Simblum sphaerocephalum*. (Mycologia. V. p. 264—277. 2 pl.)
- Dodge, B. O. 1915.** Relationship between *Roestelia transformans* and *R. botryapites*. (Torreya. XV. p. 133—134.)
- Dufour, L. 1914.** Notes sur les Basidiomycètes de la forêt de Fontainebleau. (Rev. gén. Bot. XXVI. p. 443—453.)
- Durand, E. J. 1913.** The genus *Keithia*. (Mycologia. V. p. 6—11. 1 pl.)
- Fairman, C. E. 1913.** Notes on new species of Fungi from various localities. (Mycologia. V. p. 245—250.)
- Fink, B. 1911.** Notes on a collection of Boletaceae. (Ohio Nat. X. p. 267—270.)
- Fraser, W. P. 1912.** Cultures of heteroecious rusts. (Mycologia. IV. p. 175—193.)
- Fraser, W. P. 1913.** Further cultures of heteroecious rusts. (Mycologia. V. p. 233—239.)
- Graves, H. H. 1914.** *Fomes Laricis* in California. (Phytopathology. IV. p. 33.)
- Güssow, H. T. 1914.** Tri-septate spores in *Claviceps*. (Phytopathology. IV. p. 386.)
- Klebahn, H. 1914.** Beiträge zur Kenntnis der Fungi imperfecti. (Mycol. Cbl. IV. p. 49—66. 15 A. p. 97—115. 18 A.)
- De Loach, R. J. H. 1909.** Some studies on the *Colletotrichum Gossypii*. (Bull. Georgia Agr. Exp. Stat. 1909. p. 85.)
- Long, W. H. 1912.** Two new species of rusts. (Mycologia. IV. p. 282—284.)
- Melhus, E. 1912.** Culturing of parasitic fungi on the living host. (Phytopathology. II. p. 197—203. 1 pl. 20. 2 f.) [A discussion of methods and apparatus, with details and illustrations pertaining to several very diverse groups of fungi. — Trelease.]
- Murrill, W. A. 1914.** Agaricaceae. (North American Flora. X. p. 1—76.)

- Murrill, W. A. 1912.** New combinations for tropical Agarics. (Mycologia. IV. p. 331—332.)
- Murrill, W. A. 1913.** Sterility in *Pholiota candicans*. (Bull.) Schroet. (Mycologia. V. p. 314. 1 pl.)
- Murrill, W. A. 1912.** The Agaricaceae of the Pacific coast. I—III. (Mycologia. IV. p. 205—217, 231—262, 294—308. ill.)
- Murrill, W. A. 1913.** The Agaricaceae of the Pacific coast. IV. New species of *Clitocybe* and *Melanoleuca*. (Mycologia. V. p. 206—223.)
- Murrill, W. A. 1913.** The Agaricaceae of tropical North America. VI. (Mycologia. V. p. 18—36.)
- Murrill, W. A. 1913.** The Amanitas of eastern North America. (Mycologia. V. p. 72—86. 2 pl.)
- Neumann, J. J. 1914.** The Polyporaceae of Wisconsin. (Bull. geol. and nat. Hist. Surv. Madison. 1914. III, 206 pp. 25 pl.)
- Orton, C. K. 1912.** Correlation between certain species of *Puccinia* and *Uromyces*. (Mycologia. IV. p. 194—204. 2 pl.) [Contains as new *Puccinia uniporula*, on the same hosts as *Uromyces uniporus* Kern. — Trelease.]
- Overholts, L. O. 1911.** The known Polyporaceae of Ohio. (Ohio Nat. XI. p. 353—373.)
- Peck, C. H. 1913.** New species of fungi. (Mycologia. V. p. 67—71.)
- Seaver, F. J. 1913.** Some tropical cup-fungi. (Mycologia. V. p. 185—193.) [Contains as new *Cookeina Colensoi* (*Peziza Colensoi* Beck). — Trelease.]
- Seaver, F. J. 1913.** The genus *Pseudoplectania*. (Mycologia. V. p. 299—302. 2 pl.) [Contains as new *P. vogesiaca* (*Peziza vogesiaca* Pers.). — Trelease.]
- Shear, C. L. 1913.** The type of *Sphaeria radicalis* Schw. (Phytopathology. III. p. 191—192.)
- Spaulding, P. 1913.** Notes on *Cronartium Comptoniae*. I—II. (Phytopathology. III. p. 62, 308—310.)
- Speare, A. T. 1912.** Notes on Hawaiian Fungi. — I. *Gibellula suffulta* n. sp. (Phytopathology. II. p. 135—137. 1 pl.) [Occurring on spiders. — Trelease.]
- Stover, W. G. 1911.** An Ohio Station for *Mitremyces cinnabarinus*. (Ohio Nat. XI. p. 350—351.)
- Stover, W. G. 1911.** Notes on new Ohio Agarics. — III. (Ohio Nat. XI. p. 349—350.)
- Stover, W. G. 1911.** Two unreported Ohio species of *Uncinula*. (Ohio Nat. XI. p. 351—532.)
- Sumstine, D. R. 1913.** Studies in North American Hyphomycetes. II. The tribe Oosporae. (Mycologia. V. p. 45—61. 3 pl.)
- Weir, J. R. 1913.** *Auricularia mesenterica* (Dicks.) Pers. (Phytopathology. III. p. 192.)

XII. Myxomycetes.

- Fullmer, E. L. 1912.** A preliminary list of the Myxomycetes of Cedar Point. (Ohio Nat. XII. p. 472.)

XIII. Pflanzenkrankheiten.

Cf. VI. Reed, Reed and Cooley; XI. Long, Melhus.

- Andersen, H. K. 1915.** De vigtigste Plantesygdomme og deres Bekæmpelse, 2. udgave. (Harley. 1915. 8^o. 84 pp.)
- Anderson, P. J. and H. W. 1912.** *Endothia virginiana*. (Phytopathology. II. p. 261—262.) [Contains the further new name *Endothia parasitica* (*Diaperthe parasitica* Murrill). — Trelease.]

- Appel, O. 1915.** Leaf roll diseases of the potato. (Phytopathology. V. p. 139—148.)
- Arzberger, E. G. 1913.** The cob-rot of corn. (Bull. Ohio Agr. Exper. Stat. 1913. p. 265.) [Referring to *Coniosporium Gecevi*, which is held to be an obligate saprophyte and therefore nor to be considered as the cause of a disease. — *Trelease.*]
- Babcock, D. C. 1915.** A new scarlet oak disease. (Phytopathology. V. p. 197.)
- Barrus, M. F. 1913.** Late blight and rot of potatoes. (Circ. Cornell agr. Exp. Stat. XIX. p. 77—83. 7 f.)
- Bartholomew, E. T. 1912.** Apple rust controllable by spraying. (Phytopathology. II. p. 253—257.)
- Bayer, E. 1914.** Ueber mährische Zooecidia. (Ber. Komm. natw. Durchforsch. Mährens. 1914.)
- Brooks, C. 1913.** Quince blotch and apple fruit spot. (Phytopathology. III. p. 249—250.)
- Brooks, C. and M. De Meritt. 1912.** Apple leaf spot. (Phytopathology. II. p. 181—190. 1 pl.) [Referring to *Sphaeropsis malorum*. — *Trelease.*]
- Carter, C. N. 1915.** A powdery mildew on Citrus. (Phytopathology. V. p. 193—196. 1 pl. 1 f.) [*Oidium tingitanium* on the Dancy tangerine in California. — *Trelease.*]
- Clausen, R. E. 1912.** A new fungus concerned in wither tip of varieties of *Citrus medica*. (Phytopathology. II. p. 217—234. 2 pl. 1 f.) [Referring to *Gloeosporium limeticolum* n. sp. — *Trelease.*]
- Cunningham, G. C. 1912.** The comparative susceptibility of cruciferous plants to *Plasmodiophora Brassicae*. (Phytopathology. II. p. 138—142.)
- Edgerton, C. W. 1911.** Diseases of fig tree and fruit. (Bull. La. agr. Exp. Stat. 1911. 126.)
- Edgerton, C. W. 1912.** Flower infection with cotton ball rots. (Phytopathology. II. p. 23—27. 1 pl.) [Referring to *Glomerella Gossypii* and *Bacterium malvacearum*. — *Trelease.*]
- Edgerton, C. W. 1909.** Preliminary report on the anthracnose or pod spot disease of beans. (Bull. La. Agr. Exp. Stat. 1909. p. 116)
- Edgerton, C. W. 1910.** Some sugar cane diseases. (Bull. La. agr. Exp. Stat. 1910. 120.)
- Edgerton, C. W. 1910.** The bean anthracnose. (Bull. La. agr. Exp. Stat. 1910. 119.)
- Edgerton, C. W. 1911.** The red rot of sugar cane. (Bull. La. Agr. Exp. Stat. 1911. p. 133.) [Referring to *Colletotrichum falcatum*. — *Trelease.*]
- Edgerton, C. W. 1912.** The rots of the cotton boll. (Bull. La. agr. Exp. Stat. 1912. p. 137.)
- Edgerton, C. W. and C. C. Moreland. 1914.** Diseases of the tomato in Louisiana. (Bull. La. Agr. Exp. Stat. 1914. p. 142.)
- Edgerton, C. W. and C. C. Moreland. 1913.** The beanblight and preservation and treatment of bean seed. (Bull. La. Agr. Exp. Stat. 1913. p. 139.) [Referring to *Pseudomonas Phaseoli*. — *Trelease.*]
- Essary, S. H. 1912.** Notes on tomato diseases with results of selection for resistance. (Bull. Tennessee. agr. Exp. Stat. 1912. 95.)
- Fawcett, H. S. 1912.** The cause of stem-end rot of Citrus fruits, — *Phomopsis Citri* n. sp. (Phytopathology. II. p. 109—113. 2 pl.)
- Fawcett, H. S. 1913.** Two Fungi as causal agents in gummosis of lemon trees in California. (Phytopathology. III. p. 194—195.)
- Fink, B. 1912.** A college course in plant pathology. (Phytopathology. II. p. 150—152.)

- Freeman, E. M. and E. C. Stakman. 1911.** The smuts of grain crops. (Extension Bull. Univ. Minnesota. 1911. 14. with 3 pl.)
- Freeman, E. M. and E. C. Stakman. 1914.** The smuts of grain crops. (Bull. Minnesota Agr. Exp. Stat. Revised and reprinted. 1914. 122. 34 pp. 11 f.)
- Giddings, N. J. and D. C. Neal. 1912.** Control of apple rust by spraying. (Phytopathology. II. p. 258—260. 2 pl.)
- Glover, W. O. 1911.** The occurrence of apple blotch in Ohio. (Ohio Nat. XI. p. 334—336. 1 f.). [Referring to *Phyllosticta solitaria*. — Trelease.]
- Graves, A. H. 1912.** The large leaf spot of chestnut and oak. (Mycologia. IV. p. 170—174. 1 pl. 1 f.). [Referring to *Monochaetia Desmazieri*. — Trelease.]
- Gregory, C. T. 1912.** Spore germination and infection with *Plasmodium para viticola*. (Phytopathology. II. p. 235. 7 f.)
- Hartley, C. 1913.** Bark rusts of *Juniperus virginiana*. (Phytopathology. III. p. 249.)
- Hartley, C. 1913.** Twig canker and black birch. (Phytopathology. III. p. 248—249.)
- Heald, F. D. 1912.** Notes on new or little-known plant diseases in North America for the year 1910. (Phytopathology. II. p. 5—22.)
- Heald, F. D. 1912.** The leaf spot of the pear. (Phytopathology. II. p. 127.) [Referring to *Septoria pyricola*, — *Mycosphaerella sentina*. — Trelease.]
- Hedgecock, G. G. 1912.** Notes on some diseases of trees in our national forests. — II. (Phytopathology. II. p. 73—80.)
- Hedgecock, G. G. 1912.** The *Cronartium* associated with *Peridermium filamentosum* Peck. (Phytopathology. II. p. 176—177). [The new name *Cronartium filamentosum* is proposed. — Trelease.]
- Hedgecock, G. G. and W. H. Long. 1912.** An undescribed species of *Peridermium* from Colorado. (Phytopathology. III. p. 251—252). [*Peridermium Betheli*, on *Pinus contorta*. — Trelease.]
- Hedgecock, G. G. and W. H. Long. 1913.** Notes on cultures of three species of *Peridermium*. (Phytopathology. III. p. 250—251.)
- Hewitt, J. L. 1913.** *Puccinia Pruni-spinosi* killing plum nursery stock. (Phytopathology. III. p. 270.)
- Hewitt, J. L. 1913.** Rose mildew. (Phytopathology. III. p. 270.)
- Hiltner. 1913.** Ueber die Wirkung der Sublimatbeizung des Winterroggens und des Winterweizens im Jahre 1912/13. (Prakt. Blätter f. Pflanzenbau u. Pflanzenschutz. 1913. p. 101.)
- Hoffmann, J. V. 1912.** Aerial isolation and inoculation with *Pythium Debaryanum*. (Phytopathology. II. p. 272.)
- Hori, S. 1912.** A new leaf rust of peach. (Phytopathology. II. p. 143—145. 2 pl.). [*Puccinia Pruni-Persicae*. — Trelease.]
- Horne, W. T., W. B. Parker and L. L. Daines. 1912.** The method of spreading of the olive knot disease. (Phytopathology. II. p. 101—105. 1 pl.). [Referring to *Bacterium Sarastanoi*. — Trelease.]
- Humphrey, C. G. 1913.** Winter injury to the white elm. (Phytopathology. III. p. 62—63.)
- Köck, G. 1914.** Ueber den Einfluss der Kupfervitriolkalkbrühe auf die Kürkenblüte. (Wien. landw. Ztg. LXIV. p. 419—420.)
- Lawrence, W. H. 1912.** Plant diseases induced by *Sclerotinia perplexa* nov. sp. (Bull. Washington agr. Exp. Stat. 1912. 107.)
- Lewis, C. E. 1912.** Inoculation experiments with fungi associated with apple leaf spot and canker. (Phytopathology. II. p. 49—62.)
- Long, W. H. 1912.** Notes on three species of rusts on *Andropogon*.

- (Phytopathology. II. p. 164—171.) [Contains the new combination *Puccinia sagittata* (*Puccinia Ellisiana*, — *Caeoma* (*Aecidium*) *sagittatum* Schw.). — Trelease.]
- Macbride, T. H. 1913.** Note on *Plowrightia morbosa*. (Phytopathology. III. p. 311—312.)
- Magerstein, V. 1914.** Ueber das Auftreten des samtstieligen Blatterschwammes in Weidenkulturen. (Wien. landw. Ztg. LXIV. p. 79—80.)
- Manns, T. F. 1909.** The blade blight of oats; a bacterial disease. (Bull. Ohio agr. Exp. Stat. Oct. 1909.)
- Manns, T. F. 1911.** The *Fusarium* blight (wilt) and dry rot of the potato. (Bull. Ohio agr. Exp. Stat. May 1911. 229. [Referring to *Fusarium oxysporum*. — Trelease.]
- Manns, T. F. 1911.** Two recent important cabbage diseases of Ohio. (Bull. Ohio agr. Exp. Stat. 1911. 228.)
- McMurrin, S. M. 1912.** A new interval *Sterigmatocystis* rot of pomegranates. (Phytopathology. II. p. 125—126.) [Referring to *Sterigmatocystis castanea*. — Trelease.]
- Meinecke, E. P. 1912.** Methods of control of plant diseases in North America. (Phytopathology. II. p. 178—179.)
- Melchers, L. E. 1913.** The mosaic disease of the tomato and related plants. (Ohio Nat. XIII. p. 149—173. 2 pl.)
- Morse, W. J. 1912.** Does the potato scab organism survive passage through the digestive tract of domestic animals? (Phytopathology. II. p. 146—149. 1 pl.) [The answer is affirmative. — Trelease.]
- Nalepa, A. 1914.** Neue Gallmilben. 31. Forts. (Anz. ksl. Ak. Wiss. Wien. 1914. XXVII. 4 pp.)
- Reed, H. S. 1912.** Does *Phytophthora infestans* cause tomato blight? (Phytopathology. II. p. 250—252). [Affirmatively answered. — Trelease.]
- Reed, G. M. 1912.** Infection experiments with the powdery mildew of wheat. (Phytopathology. II. p. 81—87). [Referring to *Erysiphe graminis*. — Trelease.]
- Roberts, J. W. 1912.** A new fungus on the apple. (Phytopathology. II. p. 263—264. [Phomopsis Mali n. sp. — Trelease.]
- Rosenbaum, J. 1912.** Infection experiments with *Thielavia basicola* on ginseng. (Phytopathology. II. p. 191—196. 2 pl.)
- Rosenbaum, J. 1914.** *Phytophthora Arecae* (Colem.), Pethyb., causing a rot of potato tubers. (Phytopathology. IV. p. 387.)
- Selby, A. D. 1910.** A brief handbook of the diseases of cultivated plants in Ohio. (Bull. Ohio agr. Exp. Stat. 1910. 214.) [A short account of fungi and their study, followed by a list of the most important economic plants of the State with an account of the principal fungous parasites of each. — Trelease.]
- Selby, A. D. 1908.** Fall and early winter injuries to orchard trees and shrubby by freezing. (Bull. Ohio agr. Exp. Stat. 1908. 192.)
- Selby, A. D. and T. F. Manns. 1908.** Studies in diseases of cereals and grasses. (Bull. Ohio agr. Exp. Stat. 1909. 203.) [Contains as new *Colletotrichum cereale*, on various grasses. — Trelease.]
- Shear, C. L. 1912.** The Chestnut bark fungus, *Diaporthe parasitica*. (Phytopathology. II. p. 88—89.)
- Shear, C. L. 1912.** The Chestnut blight fungus. (Phytopathology. II. p. 211—212.)
- Smith, E. F. 1912.** *Bacillus coli*, a cause of plant disease. (Phytopathology. II. p. 175—176.)
- Smith, E. F. 1912.** Bacterial mulberry blight. (Phytopathology. II. p. 174.)

- Smith, E. F. 1912.** Etiology of crown galls on sugar beet. (Phytopathology. II. p. 270—272.)
- Smith, E. F. 1914.** Identity of the American and French mulberry blight. (Phytopathology. IV. p. 34). [Both ascribed to *Bacterium Mori*. — Trelease.]
- Smith, E. F. 1912.** Isolation of pathogenic potato bacteria: a question of priority. (Phytopathology. II. p. 213—214.)
- Smith, E. F. 1912.** The staining of *Bact. tumefaciens* in tissue. (Phytopathology. II. p. 127—128.)
- Stevens, N. E. 1912.** *Polystictus versicolor* as a wound parasite of *Catalpa*. (Mycologia. IV. p. 263—270. 2 pl.)
- Stevens, N. E. 1912.** Wood rots of the hardy *Catalpa*. (Phytopathology. II. p. 114—119. 1 pl.)
- Stewart, A. 1914.** Notes on the anatomy of the punctatus gall. (Amer. Journ. Bot. I. p. 531—546. 2 pl.)
- Taubenhaus, J. J. 1912.** A further study of some *Gloeosporiums* and their relation to a sweet pea disease. (Phytopathology. II. p. 153—160. ill.)
- Weir, J. R. 1912.** A *Botrytis* on Conifers in the Northwest. (Phytopathology. II. p. 215.)
- Weir, J. R. 1913.** An epidemic of needle diseases in Idaho and western Montana. (Phytopathology. III. p. 252—253.)
- Weir, J. R. 1913.** Destructive effects of *Trametes Pini* and *Echinodontium tinctorum*. (Phytopathology. III. p. 142.)
- Wolf, F. A. 1913.** An other host for *Rhodochytrium*. (Phytopathology. III. p. 311. [*Rhodochytrium spilanthidis* on *Ambrosia trifida* in Alabama. — Trelease.]
- Wolf, F. A. 1913.** Internal aecia. (Mycologia. V. p. 303—304. 1 pl.) [Referring particularly to the aecia (in *Lycopus*) of the sedge rust *Puccinia angustata*. — Trelease.]
- Wolf, F. A. 1913.** Melanose. (Phytopathology. III. p. 190—191.)

XIV. Bacteriologie.

Cf. XIII. Horne, Manns, Smith.

- Ambrož. 1915.** Cytologische Beiträge zur Morphologie und Aetiologie der sog. Involutions- und Degenerationsformen bei Bakterien, sowie zur Frage der Teilung derselben. (Vestník V. sjez. čes. přír. 1915. p. 351. Böhmisches.)
- Bottomley, W. B. 1915.** A bacterial test for plant food accessories (auximones). (Proc. r. Soc. London. B. LXXXIX. p. 102—108.)
- Dvořák, S. 1915.** Beitrag zum Studium der Reduktionsvorgänge, die durch Bakterien hervorgerufen sind. (Věstník V. sjez. čes. přír. 1915. p. 432. Böhmisches.)
- Foster, M. L. 1913.** A comparative study of the metabolism of *Pneumococcus*, *Streptococcus*, *Bacillus lactis erythrogenes* and *Bacillus anthracoides*. (Journ. amer. chem. Soc. XXXV. p. 916—919.)
- Fousek, A. 1913.** Ueber die Rolle der Streptotricheen im Boden. (Mitt. landw. Lehrkanz. k. k. Hochschule Bodenk. Wien. I. p. 217—244.)
- Fred, E. B. A. 1911/12.** A physiological study of the legume bacteria. (Rep. Va. agr. Exp. Stat. 1911/12. p. 145—173.)
- Gainey, P. L. 1914.** Real and apparent nitrifying powers. (Science. N. S. XXXIX. p. 35—37.)
- Kellerman, K. F. and L. T. Leonard. 1913.** The prevalence of *Bacillus radiclecola* in soil. (Science. N. S. XXXVIII. p. 95—98.)

- Peck, S. S. 1912.** The influence of molasses on nitrification in cave soils. (Bull. hawaiian Sugar Plant Ass. Exp. Stat. 192. 39. 25 pp. 8 ch.)
- Smith, E. F. 1912.** A new method in bacterial research. (Phytopathology. II. p. 214—215. [Application of Churchman's stain to bacteria of plant disease. — Trelease.]
- Wilcox, E. M. and G. K. K. Link. 1912.** A new form of pure culture chamber. (Phytopathology. II. p. 120. 1 f.)

XV. Lichenes.

Cf. V. Blake.

- Blodgett, F. M. 1915.** Further studies on the special and control of hop mildew. (Bull. New York. Agr. Exper. Stat. 1915. p. 395. [Referring to *Spaerotheca Humuli*. — Trelease.]
- Claassen, E. 1913.** *Caloplaca pyracea* (Ach.) Th. Fr., a crustaceous lichen on the Sandstone Sidenalks of East Cleveland, Ohio. (Ohio Nat. 13. p. 99—100.)
- Timm, R. 1913.** Mit Flechten von Kullen in Schweden vergesellschaftete Moose, eine Ergänzung zu der Flechtenarbeit von Fr. Erichsen. (Verh. natw. Ver. Hamburg. 1913. 3 Folge XXI. p. 95—106. 3 A.)

XVI. Bryophyten.

Cf. XV. Timm.

XVII. Pteridophyten.

(Vacat.)

XVIII. Floristik, Geographie und Systematik der Phanerogamen.

- Abbot, E. O. 1914/15.** Bartram's Garden, Philadelphia, Pa. (Issued by the John Bartram Association, 1914. Re-issued, 1915.)
- Andrews, E. C. 1915.** The development and distribution of the natural order Leguminosae. (Journ. and Proc. r. Soc. N. S. Wales. XLVIII. p. 333—407.)
- †**Arvet-Touvet, C. 1913.** Hieraciorum praesertim Galliae et Hispaniae, catalogus systematicus. Préface de l'abbé H. Coste. (Paris, L. Lhomme. 1913. 8^o. IX, 480 pp.)
- Baker, R. T. 1915.** A new Croton from New South Wales. (Journ. and Proc. r. Soc. N. S. Wales. XLVIII. p. 444—447.)
- Bartlett, G. 1915.** Key to the seeds of the wild and cultivated genera of peas and leaves in Ohio. (Ohio Nat. XV. p. 500.)
- Beal, W. J. 1915.** Weeds growing in Amherst. (Rhodora. XVII. p. 29—30.)
- Bennett, A. 1915.** Countyrecords of Potamogetons. (Journ. of Bot. LIII. p. 236—237.)
- Berry, E. W. 1915.** The origin and distribution of the family Myrtaceae. (Bot. Gaz. LIX. p. 484—490.)
- Blake, S. F. 1915.** A revision of *Salmea* and some allied genera. [concl.] (Journ. of Bot. LIII. p. 225—235.)
- Blake, S. F. 1915.** An *Atriplex* [*A. maritima*] new to North America. (Rhodora. XVII. p. 83—86. 2 f)
- Blake, S. F. 1915.** Notes on the genus *Sabatia*. (Rhodora. XVII. p. 50—57. 1 pl.)
- Bonnet, E. 1914.** Enumération des plantes recueillies dans le Sahara central par la Mission du chemin de fer transafricain. (Ass. franç. Avanc. Sc. C. R. 42^e Sess. Tunis, 1913. Notes et Mém. Paris, 1914. p. 303—307.)
- Brainerd, E. 1915.** *Viola septentrionalis* in British Columbia. (Rhodora. XVII. p. 70—71.)

- Brown, N. E. 1915.** *Sansevieria*. A monograph of all the known species. (Kew Bull. 1915. p. 185—261. 2 pl. 23 f.)
- Büsgen, M. 1913.** Die Tracht der Bäume. (Jahrb. niedersächsisch. bot. Ver. Hannover. IV—V: p. XVII—XVIII.)
- Chase, A. 1914.** An unwelcome invader. (*Rhodora*. XVI. p. 166. [*Bromus villosus* is reported for Maryland. — Trelease.]
- Chase, A. 1914.** *Panicum Wrightianum* in Long Island. (*Rhodora*. XVI. p. 167.)
- Cockerell, T. D. A. 1913.** Some plants from New Mexico. (Proc. biol. Soc. Washington. XXVI. p. 203—204.)
- Cockayne. 1914.** New Zealand plants suitable for North American gardens. (Wellington, N. Z. 1914. 35 pp.)
- Coley, M. and C. A. Weatherby. 1915.** Wild flower preservation. (New York. 1915. 8°. 197 pp. 1 col pl. 29 f.)
- Collins, F. S. 1915.** November flowers. (*Rhodora*. XVII. p. 33—38.) [A list of late-flowering New England species. — Trelease.]
- Cuénod, A. 1914.** Contribution à l'étude de la flore tunisienne. Sur quelques espèces et sur quelques stations nouvelles de la flore tunisienne. (Ass. franç. Avanc. Sc. C. R. 42e Sess. Tunis, 1913. Notes et Mém. Paris, 1914. p. 296—300. 2 f.)
- Dammer, U. 1915.** *Palmae. Plantae Uleanae novae vel minus cognitae.* (Nblatt kgl. bot. Gart. u. Mus. Berlin-Dahlem. 1915. p. 261—268.)
- Diels, L. 1915.** *Heliciae novae descriptae.* (Rep. Spec. nov. XIII. p. 527—528.)
- Diels, L. 1915.** *Proteaceae. Plantae Uleanae novae vel minus cognitae.* (Nblatt kgl. bot. Gart. u. Mus. Berlin-Dahlem. 1915. p. 288.)
- Domin, K. 1914.** Die Pflanzenwelt unserer Heimat. (Prag, 1914.) [Ein Atlant der böhmischen Pflanzen, nach dem Vorbilde des Atlantes von Schmeil-Fitschen. — Jar. Stuchlík.]
- Domin, K. 1914.** Riesen aus dem Pflanzenreiche. (Za vzděláním, 1914.) [Populäre Beschreibung der Riesen unter Pflanzen, ihrer Physiologie, Geographie und kulturellen Bedeutung. — Jar. Stuchlík.]
- Domin, K. 1915.** Ueber die Genesis der Flora Australiens und phytogeographische Gliederung derselben. (Věstník V. sjez. ces. přír. 1915. p. 350. böhmisch.) [Zusammenfassende Uebersicht, die schon von anderen Mitteilungen Verf. bekannt ist. — Jar. Stuchlík.]
- Dow, C. M. 1914.** Forest Arboreta. (Amer. Midland. Nat. III. p. 255—265.)
- Fernald, M. L. 1914.** A new maritime *Polygonum* from Nova Scotia. (*Rhodora*. XVI. p. 187—189.) [*Polygonum acadiense*. — Trelease.]
- Fernald, M. L. 1914.** A northern variety of *Aster linearifolius*. (*Rhodora*. XVI. p. 192—194.) [*Aster linearifolius* Victorinii. — Trelease.]
- Fernald, M. L. 1914.** *Carex leptoneuria* a valid species. (*Rhodora*. XVI. p. 213—214.) [Segregation of *Carex laxiflora leptoneuria* Fern. — Trelease.]
- Fernald, M. L. 1914.** The glabrous-leaved sweet gale. (*Rhodora*. XVI. p. 167.) [As a new name: *Myrica Gale Subglabra* (*Gale palustris subglabra* Chevalier.) — Trelease.]
- Fernald, M. L. 1914.** Two Newfoundland *Antennarias*. (*Rhodora*. XVI. p. 196—197. [*Antennaria spathulata* (*A. canadensis spathulata* Fern.) and *A. albicans*.) — Trelease.]
- Fernald, M. A. and H. St. John. 1914.** *Nymphaea variegata* or *N. americana*? (*Rhodora*. XVI. p. 137—141.) [*Nymphaea variegata* G. S. Miller is retained in preference to *N. americana* Provancher. — Trelease.]
- Floyd, F. G. 1914.** The rediscovery of an historic collection of Mas-

- sachusetts plants. (*Rhodora*. XVI. p. 185—187.) [The "Massachusetts State Herbarium", at Amherst, basis of Flint, "Catalogue of Plants" in the Seventh Annual Report of the Mass. Bd. Agr. — Trelease.]
- Fox, C. P. 1911.** Ohio grown *Perilla*. (*Ohio Nat.* XII. p. 427—428.)
- Fullmer, E. L. 1913.** Additions made to the Cedar Point flora during the Summer of 1912. (*Ohio Nat.* XIII. p. 78.)
- Greene, E. L. 1912.** A handful of vetches. (*Leaflets bot. Observ.* II. p. 267—270.)
- Greene, E. L. 1912.** Certain wild roses. (*Leaflets bot. Observ.* II. p. 254—260, 261—266.)
- Greene, E. L. 1912.** Some new lupines. (*Leaflets bot. Observ.* II. p. 233—236.)
- Greene, E. L. 1912.** Three new *Rhamni*. (*Leaflets bot. Observ.* II. p. 266—267.)
- Hering, W. 1914.** Systematische und pflanzengeographische Studien über die *Baccharis*-Arten des aussertropischen Südamerikas. (3. Beih. Jahrb. hamburg. wiss. Amst. XXXI. p. 65—173.)
- Hill, A. F. 1914.** Notes on the flora of the Penobscot Bay region, Maine. (*Rhodora*. XVI. p. 189—192.)
- Humphrey, L. E. 1913.** The genus *Fraxinus* in Ohio. (*Ohio Nat.* XIII. p. 185—188.)
- Kaczmarek, R. M. 1914.** Priority of *Hierochloa*. (*Amer. Midl. Nat.* III. p. 198.) [Contains as new *Hierochloa Nashii* (Savastana Nashii Bicknell). — Trelease.]
- Keller, C. 1913.** Naturwissenschaftliche Wanderbilder aus dem Kaukasus. (*Natur.* 1913. p. 430—433, 445—448, 469—472, 493—496, 517—520. ill.)
- Knowlton, C. H. 1914.** *Carex maritima* in Marshfield, Massachusetts. (*Rhodora*. XVI. p. 213.)
- Knowlton, C. H. 1914.** New England distribution of *Ilex opaca* and *Ilex glabra*. (*Rhodora*. XVI. p. 163—165.)
- Krause, E. H. L. 1914.** Beiträge zur Flora von Amerika. (Virginia. St. Vincent, Chile u. s. w. (Beih. bot. Cbl. 1914. 20 pp.)
- Lunell, J. 1907.** *Sagittaria arifolia* Nutt. in North Dakota. (*Bull. Leeds Herb.* 1907. 1.)
- Mc Atee, W. L. 1913.** A list of plants collected on St. Vincent Island, Florida. (*Proc. biol. Soc. Washington.* XXVI. p. 39—51. [A list of 261 species, of which 12 only are introduced. — Trelease].
- Mc Avoy, B. 1913.** Liliales of Ohio. (*Ohio Nat.* XIII. p. 109—130.)
- Nieuwland, J. A. 1914.** *Polygonum longistylum* Small, a synonym. (*Amer. Midland. Nat.* III. p. 200—201.) [The new combination *Persicaria bicornis* (*Polygonum bicornis* Ref.) is suggested. — Trelease.]
- Reddick, D. 1912.** Field laboratory equipment. (*Phytopathology.* II. p. 172—174.)
- Schaffner, J. H. 1912.** New and rare plants added to the Ohio list in 1912. (*Ohio Nat.* XIII. p. 36.)
- Standley, P. C. 1913.** Five new plants from New Mexico. (*Proc. biol. Soc. Washington.* XXVI. p. 115—119.)
- Tidestrom, I. 1913.** Novitates florae utahenses. (*Proc. biol. Soc. Washington.* XXVI. p. 121—122.)
- Williams, A. 1913.** Caryophyllaceae of Ohio. (*Ohio Nat.* XIII. p. 176—184.)
- Wooton, E. O. 1913.** Trees and shrubs of New Mexico. (*Bull. New Mexico Agr. Exp. Stat.* 1913. 87. 169 pp. ill.) [The grouping is in the customary Englerian sequence, and families and genera are provided with keys. — Trelease.]

Woodward, R. H. 1914. Station for fruiting *Euphorbia Cyparissias* [near New Haven, Ct.]. (*Rhodora*. XVI. p. 167—168.)

XIX. Pflanzenchemie.

Birekner, V. 1912. On a new glucolytic ferment of yeast. (*Journ. amer. chem. Soc.* XXXIV. p. 1215—1228.)

Bourquelot, E., M. Bridel et A. Aubry. 1915. Recherches sur la glucosidification de la glycérine par la glucosidase α . (*C. R. Ac. Sc. Paris*. CLXI. p. 41—43.)

Frankforter, G. B. 1914. The resins and their chemical relations to the terpenes. (*Amer. Journ. Pharm.* LXXXV. p. 53—62.)

Kanngiesser, F. 1913. Zur Frage der Schädlichkeit einiger Beeren. (*Natw. Wschr. N. F.* XII. p. 735—736. XIII. p. 512.)

Langenhan, H. A. 1914. The alkaloidal content of stramonium leaves. (*Bull. Univ. Wisconsin*. 1914. 738. p. 53—80.) [Referring to several species of *Datura*. — T release.]

Llyod, F. E. 1912. Tannin colloid combinations in the persimmon. (*John Hopkins Univ. Circ.* 1912. p. 124.)

Llyod, F. E. 1912. The association of tannin with an emulsion colloid in the acorn. (*Quercus laurifolia*). (*John Hopkins Univ. Circ.* 1912. p. 125—128.)

Mc Intire, W. H. 1914. The decomposition of soil carbonates. (*Science N. S.* XXXIX. p. 361—362.) [Excessive amounts of magnesium carbonate were entirely decomposed when left in contact with fallow soils in pots protected from leaching. — W. H. Emig (St. Louis).]

Miller, F. A. and J. W. Meader. 1912. The alkaloidal content of individual plants of *Datura stramonium* L. and *Datura tatula* L. (*Amer. Journ. Pharm.* LXXXIV. p. 446—449.)

Nestler, A. 1913. Die hautreizende Wirkung des roten Hartriegels und der Kornelkirsche. (*Die Umschau*. 1913. p. 860—861. 2 A.)

Power, F. B. 1912. Constituents of some cucurbitaceous plants. (*Amer. Journ. Pharm.* LXXXIV. p. 145—155.)

Power, F. B. 1913. The poisonous constituent of the bark of *Robinia Pseudacacia*. (*Amer. Journ. Pharm.* LXXXV. p. 339—344.)

Power, F. B. and A. H. Salway. 1912. Chemical examination of the bark of *Erythrophloeum guineense*. (*Amer. Journ. Pharm.* LXXXIV. p. 337—351. 2 f.)

Ulmansky. 1914. Untersuchungen über die Zusammensetzung und den Nährwert einiger Futterpflanzen. (*Mitt. landw. Lehrkanz. k. k. Hochschule Bodenk. Wien*. II. p. 467—486.)

Warren, L. E. 1912. A note on the poisonous properties of *Parthenocissus quinquefolia*. (*Amer. Journ. Pharm.* LXXXIV. p. 51—53.)

Watson, G. N. 1913. The juice of the blueberry as indicator. (*Amer. Journ. Pharm.* LXXXV. p. 246—247.)

Welker, W. H. and J. Marshall. 1913. The precipitation of enzymes from their solutions by moist aluminium hydroxide. (*Journ. amer. chem. Soc.* XXXV. p. 822.)

XX. Angewandte Botanik (technische, pharmaceutische, landwirtschaftliche, gärtnerische) und Forstbotanik.

Cf. V. Blakeslee; XIX. Ulmansky.

Anonymus. 1915. Material for plant breeders. (*Journ. of Heredity*. VI. p. 46—47.)

Babcock, E. B. 1915. A new walnut. (*Journ. of Heredity*. VI. p. 40—45. 4 f.)

- Bakke, A. L. 1915.** The water relations of the mesquite. (The Ames Forester. III. p. 87—91. 1 pl.) [Published by the Forestry Club of the Iowa State College.]
- Beal, W. J. 1911.** Michigan weeds. (Bull. Michigan agr. Coll. Exp. Stat. 1911. 267. p. 281—458. 248 f.)
- Belling, J. 1915.** Prepotence in plant breeding. (Journ. of Heredity. VI. p. 45.)
- Belling, J. 1915.** The Georgia velvet bean. (Journ. of Heredity. VI. p. 290. 2 f.)
- Brown, W. H. 1911.** Soil and soil problems from standpoint of botanist. (Michigan Ac. Sc. Rep. XIII. p. 52—54.)
- Caron-Eldingen, v. 1915.** Züchtung und Anbau deutscher kleberreicher Winterweizen und ihre Backfähigkeit. Referat auf der Wanderversammlung der „Gesellschaft zur Förderung deutscher Pflanzenzucht“ am 5. 6. 1914 in Göttingen. (Beiträge z. Pflanzenzucht 1915. 15 pp. 1 T.)
- Cock, R. P. 1912.** Crop rotation and fertilizer experiments with dried tobacco. (Bull. Va. agr. Exp. Stat. 1912. 198. p. 1—20. 6 f.)
- Cettolini, S. 1915.** La viticulture en Italie. (Bull. Rens. agr. et Mal. Plantes. VI. p. 966—975.)
- Clausen, R. E. 1915.** Ettersburg strawberries. (Journ. of Heredity. VI. p. 324—331. 3 f.)
- Cohen, N. H. 1915.** Over het winnen van olie uit tabakzaad. (Med. Proefstat. vorstenlandsche Tabak. 1915. 14. p. 57—65.)
- Crumley, J. J. 1910.** The relative durability of post timbers. (Bull. Ohio Agr. Exp. Stat. 1910. 219.)
- Dafert, F. W. und K. Kornauth. 1915.** Bericht über die Tätigkeit der k. k. landw.-chemischen Versuchsstation und der mit ihr vereinigten k. k. landw.-bakteriologischen und Pflanzenschutzstation in Wien im Jahre 1914. (Zschr. landw. Versuchsw. Oesterreich. 1915. p. 127—202.)
- Denniston, R. H. and R. E. Kremers. 1914.** Medicinal plants of Wisconsin. (Bull. Univ. Wisconsin 1914. 738. p. 22—31.)
- Dettweiler. 1914.** Aryan agriculture. (Journ. of Heredity. V. p. 473—481. 4 f. 1 pl.)
- Domin, K. 1915.** Heilpflanzen der einheimischen Völker Südasiens und Australiens. (Věstník V. sjez. čes. přír. 1915. p. 611. (Böhmisch). [Kulturgeschichtliche Mitteilung mit Aufzählung der als Heilmittel anwendenden Pflanzen. Zu bemerken ist, dass universelles Mittel bei venerischen Erkrankungen dort Eucalyptus ist. — Jar. Stuchlík.]
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