

Botanisches Centralblatt.

Referierendes Organ

der

Association Internationale des Botanistes
für das Gesamtgebiet der Botanik.

Herausgegeben unter der Leitung

des *Präsidenten*:

des *Vice-Präsidenten*:

des *Secretärs*:

Dr. D. H. Scott.

Prof. Dr. Wm. Trelease.

Dr. J. P. Lotsy.

und der *Redactions-Commissions-Mitglieder*:

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Prof. Dr. C. Wehmer und Dr. C. H. Ostenfeld.

von zahlreichen Specialredacteurs in den verschiedenen Ländern.

Dr. J. P. Lotsy, Chefredacteur.

No. 1.

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1916.

Neue Litteratur.

I. Allgemeines.

- Boulger, G. S. 1915.** The connection of Kew with the history of Botany. (South. Eastern Nat. for 1915. p. 61—71.)
- Capelle, G. 1915.** Botanische Beobachtungen an verschiedenen Pflanzen. (Allg. bot. Zschr. XXI. p. 68—74.)
- Fraser, J. 1915.** Note on the occurrence in Scotland of *Magastigma pini*, Parf. in the seed of *Abies nobilis*, Lindl. (Trans. bot. Soc. Edinburgh. XXVI. p. 405—407.)
- Gombocz, E. 1914.** *Historia Horti Botanici nec non Cathedrae Botanicae Regiae Scientiarum Universitatis Hungaricae Budapestinensis, 1790—1886. En Hongrois avec résumé Français.* (Pest, 1914. 8^o. V, 200 pp. 6 portr. 6 f.)
- Johnson, D. S. 1915.** The history of the discovery of sexuality in plants. (Smithsonian Rep. 1914 [1915]. p. 383—406.)
- Malmström, C. 1915.** Några ord med anledning af rektor L. M. Neumanns senaste angrepp. (Bot. Not. 1915. p. 231—235.)
- Ramsbottom, J. 1915.** The British Association at Manchester. (Journ. of Bot. LIII. p. 329—334.)
- Riddell, W. R. 1915.** The Pharmacopeia of the Botanical Physician Later. (Trans. bot. Soc. Edinburgh. XXVI. p. 411—421.)
- Thoday, D. 1915.** Botany a text-book for senior students. (Cambridge Univ. Press. 1915. 8^o. XVI. 474 pp. 205 f.)
- Uexküll, J. von 1913.** Bausteine zu einer biologischen Weltanschauung. Hrsg. von F. Gross. (München, F. Bruckmann. 1913. 8^o. 298 pp.)
- Woodhead, T. W. 1915.** The study of plants, an introduction to botany and plant ecology. (Oxford, Clarendon Press. 1915. 8^o. 440 pp. 257 f. and pls. Price 5 sh. 6 p.)

Worte, C. 1915. Reckless Botanist. (Selborne Mag. XXVI. p. 97—99.)

II. Anatomic.

Cf. XIX. Molliard.

Breakwell, E. 1915. Anatomical structure of some xerophytic native grasses. (Proc. Linn. Soc. N. S. Wales. XI. p. 42—55.)

Chamberlain, C. J. 1915. Methods in Plant Histology. 3. edit. (Chicago 1915. 8^o. XI, 314 pp. ill.)

Dixon, H. H. and G. S. Marshall. 1915. A quantitative examination of the elements of the wood of trees in relation to the supposed function of the cells in the ascent of sap. (Sc. Proc. roy. Dublin Soc. XIV. p. 358—368.)

Edson, H. A. 1915. Histological relations of sugar-beet seedlings and *Phoma betae*. (Journ. agr. Res. V. p. 55—57. 2 pl.)

Holden, R. 1915. On the cuticles of some Indian Conifers. (Bot. Gaz. LX. p. 215—227. 1 pl.)

Suckling, Z. A. 1913. The leaf-anatomy of some trees and shrubs growing on the Port Hills, Christchurch. (Trans. N. Zealand Instit. XLVI. p. 178—188.)

Wallis, T. E. 1915. The structure of papper. Some new features. (Analyst. May. 1915.)

III. Biologie.

Cf. XVIII. Hamilton.

Farrow, E. P. 1915. Preliminary account of the vegetation of the East-Anglian Dry Sandy Heaths. (Journ. of Ecol. III. p. 125—126.)

Quvik, R. 1915. Xerophilous plants. (Rep. Winchester Coll. Nat. Hist. Soc. 1915. p. 53—63.)

Salisbury, E. J. 1915. The Oak-Hornbeam woods of Hertfordshire. (Journ. of Ecol. III. p. 126—127.)

Werth, E. 1915. Kurzer Ueberblick über die Gesamtfrage der Ornithophilie. (Bot. Jahrb. LIII. Beibl. Nr. 116. p. 314—378. 14 F.)

IV. Morphologie, Teratologie, Befruchtung, Cytologie.

Bernard, C. 1915. Over eenige abnormaliteiten. (Teysmannia. XXVI. p. 396—397. 3 pl.)

Cabbage, R. H. 1915. Acacia seedlings. Part I. (Proc. roy. Soc. N. S. Wales. XLIX. p. 81—121.)

Delaunay, L. 1915. Etude comparée caryologique de quelques espèces du genre *Muscari* Mill. (Mém. Soc. Nat. Kiew. XXV. p. 33—64. 1 pl. Russe et franç.)

Doyle, J. 1915. Some researches in experimental morphology. I. On the change of a petiole into a stem by means of grafting. (Sc. Proc. roy. Dublin Soc. XIV. p. 405—444. ill.)

Guilliermond, A. 1915. Quelques observations cytologiques sur le mode de formations des pigments anthocyaniques dans les fleurs. (C. R. Ac. Sc. Paris. CLXI. p. 494—497.)

Koenen, O. 1914. Kartoffelstaude mit Knollen in den Blattachsen. (Jahrber. westfäl. Provinzialver. Wiss. u. Kunst. 1914. p. 111.)

Koenen, O. 1914. Spross- und Knospenbildung in der heimischen Flora. (Jahresber. westfäl. Provinzialver. Wiss. u. Kunst. 1914. p. 108—109.)

Lang, W. H. 1915. Address to the botanical section. (British Ass. Adv. Sc. Manchester. 1915. 18 pp.)

Martin, J. N. 1914. Comparative morphology of Leguminosae. (Bot. Gaz. LVIII. p. 154—167. 4 pl.)

- Molliard, M. 1915.** Production expérimentale de tubercules aux dépens de la tige principale chez la pomme de terre. (C. R. Ac. Sc. Paris. CLXI. p. 531—532.)
- Perriraz, J. 1915.** Contribution à l'étude des monstruosité chez *Narcissus angustifolius*. (Bull. Soc. vaudoise. Sc. nat. L. p. 413—422.)
- Pegolt, E. M. 1914.** Notes on *Nothopanax arboreum* with some reference to the development of the Gametophyte. (Trans. N. Zealand Instit. XLVIII. p: 599—612.)
- Tschirch, A. 1914.** Die Membran als Sitz chemischer Arbeit. (Verh. schweiz. natf. Ges. 1914. 2. p. 178—188.)
- Vuillemin, P. 1915.** L'androcée des Tropéolacées. (C. R. Ac. Sc. Paris. 161. p. 520—523.)
- Weaver, J. E. 1915.** A study of the root system of prairie plants of south-eastern Washington. I. (Plant World. XVIII. p. 227—248.)
- Zimmermann, W. 1915.** Abweichende Blüten und Missbildungen bei Orchidaceen. (Allg. bot. Zschr. XXI. p. 49—56. 4 A.)

V. Varietäten, Descendenz, Hybriden.

Cf. XI. Saito und Naganishi.

- Adams, C. C. 1915.** An outline of the relations of animals to their inland environments. (Bull. Illinois State Lab. nat. Hist. XI. p. 1—32.)
- Atkins, W. R. G. and G. O. Sherrard. 1915.** The pigments of fruits in relation to some genetic experiments on *Capsicum annum*. (Sc. Proc. roy. Dublin Soc. XIV. p. 328—335.)
- Babcock, E. B. 1915.** Walnut mutant investigations. (Proc. nation. Ac. Sc. I. p. 535—537.)
- Balfour, B. 1915.** *Primula obconica* and its microforms. (Trans. bot. Soc. Edinburgh. XXVI. p. 301—344.)
- Cockerell, T. D. A. 1915.** Specific and varietal characters in annual sunflowers. (Amer. Nat. IL. p. 609—622. 2 f.)
- Cook, O. F. 1915.** Two classes of hybrids. (Journ. of Heredity. VI. p. 55—56.)
- Daniel, J. 1914.** Xenienvererbung bei einigen Bohnensorten. (Int. agr.-techn. Rundschau. V. p. 1098—1099.)
- Druce, G. C. 1915.** A new hybrid orchid. *Habenaria Gymnadenia* × *Orchis praetermissa*. (Rep. Winchester Coll. Nat. Hist. Soc. 1913—1915. p. 12—13. ill.)
- Fischer, H. 1913.** Ein interessanter *Tropaeolum*-Bastard. (Gartenflora. LXII. p. 278—282. 1 A.)
- Frost, H. B. 1915.** The inheritance of doubleness in *Mathiola* and *Petunia*. I. The hypotheses. (Amer. Nat. IL. p. 623—636.)
- Fruwirth, C. 1915.** Die Befruchtungsverhältnisse der Ackerbohne. (Fühlings landw. Ztg. LXIV. p. 473—478.)
- Gates, R. R. 1915.** An anticipatory mutationist. (Amer. Nat. IL. p. 645—648.)
- Hayes, H. K. 1915.** Tobacco mutations. (Journ. of Heredity. VI. p. 73—78.)
- Kerr, A. F. G. 1914.** A hybrid *Dipterocarpus*. (Journ. Linn. Soc. XI. p. 9—12. c. t.)
- Lesage, P. 1915.** Plantes salées et transmissibilité des caractères acquis. (C. R. Ac. Sc. Paris. CLXI. p. 440—442.)
- Lotsy, J. P. 1915.** Grondbeginnelsen van oordeelkundig fokken en telen. (Med. Ver. Bevord. wetensch. Teelt. 2. p. 3—36.) Assen. 1915.
- Marshall, C. G. 1915.** Perjugate cotton hybrids. (Journ. of Heredity. VI. p. 57—64.)
- Pieper, H. 1914.** Ueber die Erbllichkeit der Keimgeschwindigkeit, der Keimfähigkeit und die Lichtempfindlichkeit der Samen von *Poa pratensis*. (Fühlings landw. Ztg. LXIII. p. 362—368.)

- Roemer, Th. 1914.** Vererbung von Leistungseigenschaften. (Fühlings landw. Ztg. LXIII. p. 257—268.)
- Roux, W. 1913.** Ueber die bei der Vererbung von Variationen anzunehmenden Vorgänge nebst einer Einschaltung über die Hauptarten des Entwicklungsgeschehens. 2. Aufl. (Leipzig und Berlin, W. Engelmann. 1913. V. 68 pp.)
- Sündermann, F. 1915.** Neue Saxifraga-Bastarde aus meinem Alpengarten. (Allg. bot. Zschr. XXI. p. 56—59.)

VI. Physiologie.

Cf. V. Pieper; XVIII. Cheseman.

- Bode, W. 1915.** Schutzeinrichtungen von Pflanzensamen gegen das Meerwasser. (Natur. VI. p. 413—416. 4 A.)
- Bokorny, Th. 1915.** Weitere Beiträge zur Frage der organischen Ernährungsgrüner Blütenpflanzen. (Biochem. Ztschr. LXXI. p. 321—364.)
- Bose, J. Ch. 1915.** Plant autographs and their revelations. (Smithsonian Rep. 1914 [1915]. p. 421—443. ill.)
- Brown, A. J. and F. Tinker. 1915.** The rate of absorption of various phenolic solutions by seeds of *Hordeum vulgare*, and the factors governing the rate of diffusion of aqueous solutions across semipermeable membranes. (Proc. r. Soc. London. B. LXXXIX. p. 119—135.)
- Butler, J. B. and J. M. Sheridan. 1915.** A preliminary account of a new oedometer for measuring the expansive force of single seeds or similar small bodies when wetted. (Sc. Proc. roy. Dublin Soc. XIV. p. 462—480.)
- Cox, L. E. 1915.** Experimental Plant Physiology for Beginners. (New York 1915. 8^o. 111 pp. ill.)
- Dixon, H. H. and W. R. G. Atkins. 1915.** Osmotic pressures in plants. IV. On the constituents and concentration of the sap in the conducting tracts, and on the circulation of carbohydrates in plants. (Sc. Proc. roy. Dublin Soc. XIV. p. 374—392.)
- Dixon, H. H. and W. R. G. Atkins. 1915.** Osmotic pressures in plants. V. Seasonal variations in the concentration of the cell sap of some deciduous and evergreen trees. (Sc. Proc. roy. Dublin Soc. XIV. p. 445—461.)
- Fassig, O. L. 1914.** Period of safe plant growth in Maryland and Delaware. (Monthly Weather Rev. Washington. 1914. 7 pp. 1 pl. 7 f.)
- Gates, F. C. 1915.** Tissue tension in *Amorphophallus*. (Bot. Gaz. LX. p. 235—236. 1 f.)
- Gisevius and Claus. 1914.** Untersuchungen über Keimfähigkeit und Triebfähigkeit. (Fühlings landw. Ztg. LXIII. p. 297—318.)
- Harris, F. S. 1915.** Effect of alcali salts in soils on the germination and growth of crops. (Journ. agr. Res. V. p. 1—53. 48 f.)
- Harvey, E. M. 1915.** Some effects of ethylene of the metabolism of plants. (Bot. Gaz. LX. p. 193—214. 2 f.)
- Heinze, B. 1915.** Die Nützlichkeit des Kalkes für die Ernährung des Menschen, der Tiere und der Pflanzen. (Naturwissenschaften. III. p. 536—540.)
- Hombberger, E. 1914.** Behandlung von Pflanzen mit Hochfrequenzströmen. (Umschau. XVIII. p. 733—735. 2 F.)
- Kuijper, J. 1915.** Is een blad met een internodium bij het riet als een physiologische eenheid op te vatten? (Med. Proefstat. Java-Suiker-ind. 1915. p. 437—445. 1 f.)
- Loew, O. 1915.** Eine labile Eiweissform und ihre Beziehung zum lebenden Protoplasma. (Biochem. Zschr. LXXI. p. 306—379.)

- Molisch, H. 1915.** Der Scheintod der Pflanze. (Schrift. Ver. Verbr. natw. Kenntn. Wien. LV. p. 49—71. 1 f.)
- Osterhout, W. J. V. 1915.** The determination of additive effects. (Bot. Gaz. LX. p. 228—234. 4 f.)
- Robertson, R. A. and S. J. Wilkie 1915.** A new method of continuous automatic registration of transpiration. (Trans. bot. Soc. Edinburgh. XXVI. p. 432.)
- Schanz, F. 1915.** Ueber die Beziehungen des Lebens zum Licht. (Münchener med. Wschr. 1915. p. 1315—1316.)
- Siltner, L. 1915.** Ueber die Kalkempfindlichkeit verschiedener Lupinen und anderer Pflanzenarten. (Prakt. Bl. Pflanzenb. u. Pflanzensch. 1915. p. 53—59.)
- Waterman, H. I. 1915.** De beteekenis van glykogeene en zetmeel als tusschenproduct der stofwisseling bij enkele organismen. (Hand. XV. nederl. natk. en geneesk. Congr. Amsterdam. 1915. p. 256—261.)
- Went, F. A. F. C. en A. A. L. Rutgers. 1915.** Over den invloed van uitwendige omstandigheden op den bloei van *Dendrobium crumenatum* Lindl. (Versl. kon. Ak. Wet. Amsterdam. XXIV. p. 513—517.)

VII. Palaeontologie.

- Beekly, A. L. 1915.** Geology and coal resources of North Park, Colorado. (Bull. U. S. geol. Surv. 1915. 596. 121 pp. ill.) [Contains fossil plants.]
- Berry, E. W. 1915.** Pleistocene plants from Indian Head, Maryland. (Torreya XV. p. 205—208. 1 f.)
- D. H. S[cott]. 1915.** Antarctic fossil plants. (Nature. XCV. p. 704—705.)
- Kryshtofovich, A. 1915.** Plant-remains from Jurassic lake-deposits of Transbaikalia. (Mem. Soc. imp. russe Minéral. 1915. p. 77—98. 1 pl. Russian and english.)
- Kryshtofovich, A. 1914.** The Jurassic plants of prov. Amûr, from river Tyrmma, collected by W. Doktorowsky. (Trav. Mus. géol. Pierre le Grand près Ac. imp. Sc. VIII, p. 79—124. 7 pl. Russian.)
- Kryshtofovich, A. and I. Palibin. 1915.** New materials to the tertiary flora of Prov. Tourghay [Turkestan-Khirghise-steppes]. (Bull. Ac. imp. Sc. Petrograd. 1915. p. 1235—1247. 1 pl. Russian.)
- Pelourde, F. 1915.** Les progrès réalisés dans l'étude des Cycadophytes de l'époque secondaire. (Progr. rei Bot. V. p. 129—163. 18 f.)
- Schönfeld, G. 1915.** Ein interessanter Aufschluss im Dohleener Kohlenbecken. (Sitzb. u. Abh. natw. Ges. „Isis“ Dresden. 1914. p. 28—30. 1 T.)
- Stopes, M. C. 1915.** Catalogue of the mesozoic plants in the Department of Geology — British museum. Part II. Lower Greensand (Aptian) Plants of Britain.
- Wegemann, C. H. 1915.** The Coalville coal field, Utah. (Bull. U. S. Geol. Surv. 1915. 581—E. p. 161—184. ill.) [Contains fossil plants.]
- Zalassky, D. 1915.** Observations sur le *Lepidodendron Olivieri* Eichw. et le *L. tenerrimum* A. & T. (Mém. Com. géol. N. S. Liv. 125. p. 3—46. 6 pl. Russe et franç.)

VIII. Microscopie.

- Peklo, J. 1915.** Ueber Mikrophotographie der Strukturen lebender Pflanzenzellen mit ultraviolettem Lichte. (Die Naturwissenschaften. II. p. 364—368.)

IX. Cryptogamen im Allgemeinen.

- Kinzel, W. 1915.** Winke für das Einsammeln und Aufbewahren von Kryptogamen. (Mitt. bayer. bot. Ges. III. p. 262—272.)

X. Algae.

- Frye, J. C. and S. M. Zeller. 1915.** *Homiscia tetraciliata* sp. nov. (Puget Sound. Marine Stat. Publ. I. p. 9—13. 1 pl.)
- Huber-Pestalozzi, G. 1914.** Formanomalien bei *Ceratium hirundinella* O. F. Müller. (Verh. schweiz. natf. Ges. 1914. 2. p. 191—193.)
- Kindle, E. M. 1915.** A new bathymetric record for attached Algae and Diatoms in Lake Ontario. (Journ. of Ecol. III. p. 149—152.)
- †**Lemmermann, E., †J. Brunthaler und A. Pascher. 1915.** Chlorophyceae. II. (Die Süßwasser-Flora Deutschlands, Oesterreichs und der Schweiz. Heft 5. 250 pp. 402 A. Jena, G. Fischer. Preis 6,40 Mk.)
- Mayer, A. 1915.** Für Bayern neue oder seltene Bacillariaceen. [V. M]. (Mitt. bayer. bot. Ges. III. p. 259—260.)
- Playfair, G. I. 1915.** Freshwater Algae of the Lismore district, with an Appendix on the Algal Fungi and Schizomycetes. (Proc. Linn. Soc. N. S. Wales. XL. p. 310—362.)
- Roddy, H. J. 1915.** Concretions in streams formed by the agency of blue green algae and related plants. (Proc. amer. philos. Soc. LIV. p. 246—258.)

XI. Eumycetes.

Cf. X. Playfair.

- Büren, G. von 1914.** Zur Entwicklungsgeschichte von Protomyces. (Verh. schweiz. natf. Ges. 1914. 2. p. 193—195.)
- Currie, J. N. and Ch. Thom. 1915.** An oxalic acid producing *Penicillium*. (Journ. biol. Chem. XXII. p. 287—293. 1 f.)
- Doidge, E. M. 1915.** South African Perisporiales. I. Perisporiaceae. (Annual Meet. r. Soc. S. Africa. 15th Sept. 1915.)
- Edgerton, C. W. 1915.** Effect of temperature on *Glomerella*. (Phytopathology. V. p. 247—259. 4 f.)
- Fragoso, R. G. 1915.** Adiciones à la micoflora española. (Bol. r. Soc. española Hist. nat. XV. p. 337—343.)
- Fragoso, R. G. 1915.** Micromicetos de la flora española. (Bol. r. Soc. española Hist. nat. XV. p. 296—298.)
- Humphrey, C. J. and R. M. Fleming. 1915.** The toxicity to Fungi of various oils and salts, particularly those used in wood preservation. (Bull. U. S. Dep. Agr. Bur. Plant Ind. 1915. 227. p. 1—38. 4 pl.)
- Keitt, G. W. 1915.** Simple technique for isolating single spore strains of certain types of Fungi. (Phytopathology. V. p. 266—269. 1 f.)
- Linton, E. F. 1915.** The Fungi of East Dorset. (Journ. of Bot. LIII. p. 313—321. to be concl.)
- Ludwig, C. A. 1915.** Notes on some North American rusts with caecoma-like sori. (Phytopathology. V. p. 273—281.)
- Meinecke, E. P. 1915.** Spore measurements. (Science. N. S. XLII. p. 430—431.)
- Melchers, L. E. 1915.** A way of obtaining an abundance of large uredinea from artificial culture. (Phytopathology. V. p. 236—237.)
- Melhus, I. E. 1915.** Hibernation of *Phytophthora infestans* in the Irish potato. (Journ. agr. Res. V. p. 71—102. 5 pl.)
- Melhus, I. E. 1915.** Perennial mycelium in species of Peronosporaceae related to *Phytophthora infestans*. (Journ. agr. Res. V. p. 59—69. 1 pl.)
- Murrill, W. A. 1915.** A new mephitic *Claudopus*. (Mycologia. VII. p. 290. [*Claudopus mephiticus*. — Trelease.]
- Murrill, W. A. 1915.** Notes on *Agaricus reticeps* Mont. (Mycologia.

- VII. p. 290—292. [The new name *Lentinula reticeps* is proposed. — Trelease.]
- Murrill, W. A. 1915.** The genus *Clitocybe* in North America. (Mycologia. VII. p. 256—283. 3 pl.)
- Saito, K. und H. Naganishi. 1915.** Bemerkungen zur Kreuzung zwischen verschiedenen *Mucor*-Arten. (Bot. Mag. Tokyo. XXIX. p. 149—154. 1 T.)
- †**Studer-Steinhäuslin, B. 1915.** Die Hymenomyceten des bernischen Hügellandes zwischen Alpen und Jura. (Mitt. natf. Ges. Bern. 1914 [1915]. p. 136—167.)
- Theissen, F. und H. Sydow. 1915.** Die Dothideales. Kritisch-systematische Originaluntersuchungen. [cont.]. (Ann. Mycol. XIII. p. 431—746.)
- Thom, C. and G. W. Turesson. 1915.** *Penicillium avellaneum*, a new ascus-producing species. (Mycologia. VII. p. 284—287. 3 F.)
- Wakefield, E. M. 1915.** On a collection of Fungi from Australia and New Zealand. (Kew Bull. 1915. p. 361—376. 2 pl.)
- Weir, J. R. 1915.** *Razoumofskyia tsugensis* in Alaska. (Phytopathology. V. p. 229.)
- Weir, J. R. 1915.** Teliae stage of *Gymnosporangium tubulatum* on *Juniperus scopulosum*. (Phytopathology. V. p. 218.)

XII. Myxomycetes.

- Lister, G. 1915.** Illustrations of mycetozoa, dedicated to Samuel Dale M.D. in Micheli's „Nova Plantarum genera" 1729. (Essex Nat. XVIII. p. 1—2.)
- Lister, G. 1915.** Mycetozoa found during the Fungus Foray on 17th Oct. 1914. (Epping Forest). (Essex Nat. XVIII. p. 35—36.)
- Wheldon, J. A. 1915.** A new British *Acrocordia*. (Lancashire and Cheshire Nat. VIII. p. 196—197. 1 pl.)

XIII. Pflanzenkrankheiten.

Cf. II. Edson.

- Appel, O. 1915.** The Control of cereal and Grass Smut and the Helminthosporium disease in Holland and Germany. (Phytopathology. V. p. 230—232.)
- Balley, F. D. 1915.** Powdery scab of potatoes in Oregon. (Science. N. S. XLII. p. 424—425.)
- Blodgett, F. M. 1915.** Sweet pea powdery mildew. (Phytopathology. V. p. 237.)
- Bodnár, J. 1915.** Beiträge zur biochemischen Kenntnis der Rübenschwanzfäule der Zuckerrübe. (Zschr. f. Pflanzenkr. XXV. p. 321—325.)
- Collins, J. F. 1915.** The chestnut bark disease on freshly fallen nuts. (Phytopathology. V. p. 233—235. 1 f.)
- Dammerman, K. W. 1915.** De rijstboorderplaag op Java. (Med. Labor. Plantenziekten Buitenzorg. 1915. 16. 71 pp. ill. With English summary.)
- Graves, A. H. 1915.** Root rot of Coniferous seedlings. (Phytopathology. V. p. 213—217. 2 f.)
- Hutchinson, C. M. and N. V. Joshi. 1915.** Bacterial rot of stored potato tubers. (Mem. Dep. Agr. India. Bact. Ser. I. p. 113—135. 5 pl.)
- Jones, L. R. 1915.** Problems and progress in plant pathology. (Smithsonian Rep. 1914 [1915]. p. 407—419.)
- Kirkwood, J. E. 1915.** *Peridermium pyriforme* and *Cronartium Comandrae*. (Phytopathology. V. p. 223—224.)

- Melchers, L. E. 1915.** A new alfalfa leafspot in America. (Science. N. S. XLII. p. 536—537.)
- Osmun, A. V. and P. J. Anderson. 1915.** Ring-spot of cauliflower. (Phytopathology. V. 260—265. 4 f.)
- Rumbold, C. 1915.** Methods of injecting trees. (Phytopathology. V. p. 225—228. 1 pl.)
- Schaffnit und Lüstner. 1915.** Bericht über das Auftreten von Feinden und Krankheiten der Kulturpflanzen in der Rheinprovinz im Jahre 1913. (Veröffentlichung Landw.-Kammer Rheinprov. 1915. 3. 69 pp.)
- Shear, C. L. 1915.** The need of a pure culture supply laboratory for phytopathology in America. (Phytopathology. V. p. 270—272.)
- Scherbakoff, C. D. 1915.** The after effect of sulfur treatment on soil. (Phytopathology. V. p. 219—222. 3 f.)
- Sorauer, P. 1915.** Ueber die Erkrankung der Zimmerpflanzen. (Zschr. f. Pflanzenkr. XXV. p. 325—335.)
- Stahel, G. 1915.** Marasmius perniciosus nov. spec., de veroorzaker der krullotenziekte van de cacao in Suriname. [Marasmius perniciosus nov. spec., the cause of the krulloten-disease of cacao in Suriname. Marasmius perniciosus nov. spec., der Erreger der Krülloten-Krankheit des Kakaos in Surinam.] (Bull. Dep. Landb. Suriname. 1915. 33. 27 pp., 25 pp. and 26 pp. 12 t.)
- Thompson, M. T. 1915.** An illustrated catalogue of American insect galls. (Nassau, New York, E. P. Feet. 1915.)
- Westerdijk, J. 1915.** De kunstmatige cultuur van plantenparasieten. (Hand. XV. nederl. natk. en genesk. Congr. Amsterdam. 1915. p. 273—278.)
- Wortley, E. J.** The transmission of potato mosaic through the tuber. (Science. N. S. XLII. p. 460—461.) [Transmissibility is shown. — T release.]

XIV. Bacteriologie.

- Fred, E. B. and E. B. Hart. 1915.** Comparative Effect of Phosphates and Sulphates on Soil Bacteria. (Bull. agr. Exp. Stat. Madison. Wisc. 1915. 32 pp. 6 f.)
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