

VII. LITERATURA

- Amako T. H. 1930. Beiträge zur Kenntnis der Farbstoffbildung des *Bacillus prodigiosus*. Cent. f. Bakt. I. Abt. 116; 494—499, 499—505, 506—516.
- Anderson C. G. 1946. An introduction to bacteriological chemistry. Edinburgh.
- Arnaudi C., Novati G. 1955. Attività della lecitasi C estratta da *Serratia marcescens* mediante toluolo e trattamento con ultrasuoni. Boll. soc. ital. biol. sper. 31; 1336—1337.
- Arnaudi C., Novati G. 1957. The influence of boron on the morphology of *Serratia marcescens* and on its production of choline phosphatase. Can. J. of Microbiol. 3; 381—397.
- Belser W. L., Bear P. D. 1960. Some factors affecting frequency recovery of mutants from *Serratia marcinorubra*. Bacteriological Proceedings 1—5; 75—76.
- Bertarelli E. 1903. Untersuchungen und Beobachtungen über die Biologie und Pathogenität des *Bacillus prodigiosus*. Cent. f. Bakt. I. Abt. Orig. 34; 193.
- Boekhout F. W. J., Ott de Vriess J. J. 1898. Über einen neuen chromogenen *Bacillus*. Centralblatt f. Bakt. II. Abt. 4; 497—501.
- Breed R. S., Breed M. E. 1924. The type species of the genus *Serratia*, commonly known as *Bacillus prodigiosus* J. Bacteriol., 9; 545—555.
- Breed R. S., Breed M. E. 1926. *Serratia indica* Bergey, the red chromogenic bacterium originally isolated by Koch in India. J. Bacteriol., 11; 76—77.
- Breed R. S., Murray E. G. D., Hitchens A. P. 1948. Bergey's Manual of Determinative Bacteriology. Baltimore.
- Breed R. S., Murray E. G. D., Smith R. N. 1957. Bergey's Manual of Determinative Bacteriology. Baltimore.
- Breunig J. 1888. Bakteriologisch Untersuchung des Trinkwassers der Stadt Kiel. Diss. Kiel.
- Bulder C. J. E. A. 1955. Some observations on the lipolytic activity of microorganismus and a new method for its detection. Antonie van Leeuwenhoek 21; 433—445.
- Bunting M. I. 1940. A description of some color variants produced by *Serratia marcescens*, strain 274. J. Bacteriol., 40; 57—68.
- Bunting M. I. 1940. The production of stable populations of color variants of *Serratia marcescens* 274 in rapidly growing cultures. J. Bacteriol., 40; 69—81.
- Bunting M. I., Ingraham L. J. 1942. The distribution of color variants in aging broth cultures of *Serratia marcescens*, strain 274. J. Bacteriol., 43; 585.
- Bunting M. I. 1942. Factors affecting the distribution of color variants in aging broth cultures of *S. marcescens*. J. Bacteriol., 43; 593.
- Bunting M. I. 1947. The inheritance of color in bacteria with special reference to *Serratia marcescens*. Cold Spring Harbor Sympos. Quant. Biol. 11; 25.
- Bunting M. I., Robinow C. F., Bunting H. 1949. Factors affecting the elaboration of pigment and polysaccharide by *Serratia marcescens*. J. Bacteriol., 58; 114.
- Bunting M. I. 1950. The effect of surface-active agents on color variation in aging populations of *Serratia marcescens*. J. Bacteriol., 59; 241—250.
- Cartwright N. J. 1957. The structure of serratamic acid. Biochem. Journal 67; 663—669.
- Castro A. J., Corwin A. H., Waxham F. J., Beilby A. I. 1957. Products from *Serratia marcescens*. Abstracts of Papers, American Chemical Society, 132 nd Meeting, 48P.
- Clarke P. A., Cowan S. T. 1952. Fermentations: Biochemical micromethods for bacteriology. Jour. gen. Microbiol. 6; 187—197.
- Clarke P. K. 1953. Hydrogen sulphide production by bacteria. Jour. Gen. Microbiol. 8; 397—497.
- Corpe W. A. 1951. A study of the wide spread distribution of *Chromobacterium* species in soil by a simple technique. J. Bacteriol., 62; 515—517.
- Courington D. P., Goodwin I. W. 1955. A survey of the pigments of a number of chromogenic marine bacteria, with special reference to the carotenoids. J. Bacteriol., 70; 568—571.
- Crichton P. V., Lazarus A. S. 1948. The relationship between prodigiosin production and catalase activity. J. Bacteriol., 56; 375—377.
- Čermáková M. 1960. Antigenní vztahy a patogenita v rodě *Serratia*. Diplomová práce přírodov. fakulty, Brno.

- Davis B. R., Ewing W. H., Reavis R. V. 1957. The biochemical reactions given by members of the *Serratia* group. Int. Bull. Bact. Nom. Tax. 7; 4; 152—160.
- Davis B. R., Woodward J. M. 1957. Some relationships of the somatic antigens of a group of *Serratia marcescens* cultures. Can. Jour. Microbiol., 3; 591.
- Davydoff S. 1956. Influence des facteurs nutritifs sur la survie *Serratia indica* après irradiation. C. r. Acad. Sci. (Paris) 243: 1683—1685.
- Deacon W. E. 1932. An observation on the longevity of *Serratia marcescens* (*Bacterium prodigiosum*). Science, 76; 274.
- Dewey B. T., Poe C. 1943. A simple artificial medium for pigment production by members of the genus *Serratia*. J. Bacteriol., 45; 495—498.
- Du Bois Saint-Sévrin. 1894. Panaris des pecheurs et microbe rouge de la Sardine. Ann. Inst. Pasteur, 8; 152—160.
- Duran-Reynal F., Clausen H. J. 1937. A contagious tumor-like condition in the lizard (*anolis equestris*) as induced by a new bacterial species, *Serratia anolium* (Sp. n.) J. Bacteriol., 33; 369—374.
- Ehrlich R. 1954. Induced filament formation and color variations in a strain of *Serratia marcescens*. J. Bacteriol., 68; 752—755.
- Eisenberg J. 1886. Bakteriologische Diagnostik. Hamburg und Leipzig.
- Eisenberg P. 1914. Untersuchungen über die Variabilität der Bakterien — über den Variationskreis des *B. prodigiosum* und *B. violaceum*. Centralblatt f. Bakt., I. Abt., 73; 449.
- Eisler M., Jacobson I. 1935 Über die antagonistische Wirkung steriler Bouillon-extrakte aus *Bacterium prodigiosum*. Z. Hyg. Infekt. Kr. 117; 76.
- Enterobacteriaceae Subcommittee 1958. Report of the *Enterobacteriaceae* subcommittee of the Nomenclature Committee of the International Association of Microbiological Societies. Internatl. Bull. Bact. Nomen. and Taxon. 8; 25—70.
- Ewing W. H., Edwards P. R. 1960. The principal divisions and groups of *Enterobacteriaceae* and their differentiation. Int. Bull. Bact. Nom. Tax., 10; 1; 1—12.
- Ewing W. H., Johnson J. G. 1960. The differentiation of *Aeromonas* and *Enterobacteriaceae*. Bact. Proceeding 78.
- Fischer B. 1887. Bakteriologische Untersuchungen auf einer Reise nach Westindien. Zeitschrift für Hygiene 2; 54—95.
- Flügge C. 1886. Die Mikroorganismen, Leipzig.
- Fortineau L. 1905. L' *Erythrobacillus pyosepticus* et les bacteries rouges. Bulletin de l'Institut Pasteur, 3; 13—14.
- Fuller A. T., Horton J. M. 1950. Marcescin, an antibiotic substance from *Serratia marcescens*. Jour. gen. Microbiology, 4; 417—433.
- Gilman J. P. 1953. Studies on certain species of *bacteria* assigned to the genus *Chromobacterium*. J. Bacteriol., 65; 1; 48—52.
- Goldsworthy N. E., Still J. L. 1936. The effect of meat extract and other substances upon pigment production. J. Path. and Bact. 43; 555—564.
- Goldsworthy N. E., Still J. L. 1938. The effect of various meat extracts on pigment production by *B. prodigiosus*. J. Bacteriol., 46; 634—635.
- Gorbach G., Sablatnög A. 1934. Über die Bildung von Lipoiden durch Bakterien. Archiv für Mikrobiologie, 5; 318—327.
- Green J. A., Rappoport D. A., Williams R. P. 1956. Studies on pigmentation of *Serratia marcescens*. II. characterization of the blue and the combined red pigments of prodigiosin. J. Bacteriol., 72; 4; p. 483—487.
- Green J. A., Williams R. P. 1957. Studies on pigmentation of *Serratia marcescens*. IV. Analysis of syntrophic pigment. J. Bacteriol., 74; 633—636.
- Green J. A., Williams R. P. 1959. Evidence for a tricarboxylic acid cycle in *Serratia marcescens*. J. Bacteriol., 78; 336—342.
- Hamilton R. D. 1957. A critical study of the genus *Serratia* (Thesis Indiana University) USA.
- Hartwell J. L., Shear M. J., Adams J. R. 1943. Nature of the haemorrhageproducing fraction from *Serratia marcescens* culture filtrate. J. Nat. Cancer Ins. 4; 107.
- Hefferan M. 1903. A comparative and experimental study of bacilli producing red pigment. Centr. f. Bakt. II. Abt. 11; 311—317 a 520—540.
- Hefferan M. 1906. Agglutination and biological relationship in prodigiosus group. Centr. f. Bakt. I. Abt. Orig. 46.
- Herčík F., Pelánková E. 1959. Effect of cumulative X — radiation on the development of Colour variant of *Serratia marcescens*. Folia Microbiologica, 4; 176.

- Hettche H. O. 1932. Untersuchungen über die bakteriziden und anthrakozen Bestandteile von *Bacillus pyocyaneus* und *Bacillus prodigiosus*. Arch. Hyg. 107, 337.
- Hodgkiss W., Liston J., Goodwin T. W., Jamikorn M. 1954. The isolation and description of two marine micro-organisms with special reference to their pigment production. J. gen. Microbiol., 11; 438.
- Hubbard R., Rimington C. 1950. The biosynthesis of prodigiosin, the tripyrrylmethene pigment from *Bacillus prodigiosus* (*Serratia marcescens*). Biochem. J. 46; 220—225.
- Hugh R., Leifson E. 1953. The taxonomic significance of fermentative versus oxidative metabolism of carbohydrates by various gram negative bacteria. J. Bacteriol., 66; 24—26.
- Chmura N. W., Pelczar M. J. 1959. Enhancement of pseudomonad pigment production by *Serratia marcescens*. J. Bacteriol., 77; 518—519.
- Christensen W. B. 1946. Urea decomposition as a means of differentiating *Proteus* and *Paracolon* cultures from each other and from *Salmonella* and *Shigella* types. J. Bacteriol., 52; 461—466.
- Jacini G., Arnaudi C. 1955. Ricerca sugli acidi fosfatidici. Nota preliminare. Liberazione di colina a mezzo di *Serratia marcescens*. Riv. Olii Minerali grassi saponi Milano, 3; 3—7.
- Jan A. 1939. Biologie et Chromogénèse chez deux Bactéries nouvelles du genre „*Serratia*“. Bull. de la Société Scientifique de Bretagne, 14; 27—34.
- Kaplan R. W. 1947. Spontane Mutabilität bei *Bacterium prodigiosum*. Zschr. Naturforschung 2b; 308.
- Kaplan R. W. 1948. Ultraviolett-Mutabilität bei *Bacterium prodigiosum*. Zschr. Naturforschung 3b; 29.
- Kaplan R. W., Kaplan Ch. 1956. Influence of water content on UV-induced s-mutation and killing in *Serratia*. Experimental Cell Research 11; 378.
- Kaufmann F. 1949. On the classification of the *Enterobacteriaceae*. Acta pathol. microb. scand. 26; 879.
- Kauffmann F. 1954. *Enterobacteriaceae*, 2nd ed. Einar Munksgaard, Copenhagen.
- Kharasch M. S., Conway E. A., Bloom W. 1936. Some chemical factors influencing growth and pigmentation of certain microorganisms. J. Bacteriol., 32; 533—540.
- Kocur M., Martinec T. 1957. O výskytu pigmentujících bakterií ve vodách Kníničské přehrady. Publ. Fac. Sci. Univ. Masaryk, Brno, No. 388; 1—12.
- Kost P. F. 1942. The effect of temperature, inorganic salts, and amino acids on the morphology and pigment of *Serratia marcescens*. Bulletin Pittsburgh Univ., 38; 258—265.
- Krasilnikov N. A. 1949. Opredělitel baktérij i aktinomycetov. Moskva.
- Kuntze W. 1900. Ein Beitrag zur Kenntnis der Bedingungen der Farbstoffbildung des *Bacillus prodigiosus*. Z. Hyg. Infektionskrankh., 34; 169—184.
- Labrum E. L., Bunting M. I. 1953. Spontaneous and induced color variation of the HY strain of *Serratia marcescens*. J. Bacteriol., 65; 394—404.
- McLean D. J., Robinson N. H., Purdie E. F. 1951. The relation between carbon dioxide production and the *Serratia marcescens*. J. Bacteriol., 62; 231—234.
- McLean D. J., Robinson N. H., Purdie E. F. 1951. The influence of the metabolic state and of the medium on carbon dioxide fixation by *Serratia marcescens*. J. Bacteriol., 61; 617—626.
- McLean D. J., Purdie E. F. 1952. Effect of amino acids, purines, and pyrimidines on carbon dioxide fixation by *Serratia marcescens*. J. Biol. Chem. 197; 539—545.
- McLean D. J., Purdie E. F. 1955. Effect of dicarboxylic acids, amino acids, amides, and carbohydrates on carbon dioxide fixation by *Serratia marcescens*. J. Bacteriol., 69; 204—209.
- Lecocq E. 1958. Pigmentation de *Serratia marcescens* et streptomycine. Annales de l'Institut Pasteur, 95; 187—193.
- Lehmann K. B., Neumann R. O. 1896. Bakteriologische Diagnostik. München.
- Leifson E. 1956. Morphological and physiological characteristics of the genus *Chromobacterium*. J. Bacteriol., 71; 4; p. 393—400.
- Lichstein H. C., Van de Sand V. F. 1946. The antibiotic activity of violacein, prodigiosin and phthiocol. J. Bacteriol., 52; 145—146.
- Liu P. V. 1961. Observations on the specificities of extracellular antigens of the genera *Aeromonas* and *Serratia*. J. gen. Microb. 24; 145—153.
- Lysenko O., Sneath P. H. A. 1959. The use of models in bacterial classification. J. gen. Microb., 20; 2; 284—290.
- Maister H. G. et al. 1958. Survival during storage of *S. marcescens* dried by continuous vacuum sublimation. Appl. Microbiol. 6; 413.

- Mandel M., Morton L., Sarkisian A. D., Mohn F. A. 1960. Hybridization between *Serratia marcescens* and *Escherichia coli*. Bacteriological Proceedings 187.
- Manual of Methods for Pure Culture Study of Bacteria. Geneva, New York, 1946.
- Manual of Microbiological Methods. McGraw-Hill Book Co., New York, 1957.
- Markov W. 1956. *Serratia saponaria* I und II. Schädliche Bakterien in der Seife. Zentr. f. Bakt., II. abt. 110; 26—32.
- Martinec T., Kocur M. 1960. The taxonomic status of *Serratia plymuthica* (Lehmann and Neumann) Bergey et al. and of *Serratia indica* (Eisenberg) Bergey et al. Internatl. Bull. of Bact. Nomencl. and Taxonomy 10; 247—254.
- Martinec T., Kocur M. 1961. The taxonomic status of *Serratia marcescens* Bizio Internatl. Bull. of Bact. Nomen and Tax. 11; 7—12.
- Martinec T., Kocur M. 1961. Contribution to the taxonomic studies of *Serratia kiliensis* (Lehmann et Neumann) Bergey. Internatl. Bull. of Bact. Nom. and Tax., 11; 87—90.
- Martinec T., Kocur M. 1961. A taxonomic study of the members of the genus *Serratia*. Internatl. Bull. of Bact. Nom. and Tax., 11; 73—78.
- Merlino C. P. 1924. Bartolomeo Bizio's letter to the most eminent priest, Angelo Bellani, Concerning the phenomenon of the red-colored polenta. (Translated from the Italian). J. Bacteriol., 9; 527—543.
- Migula W. 1900. System der Bakterien. Jena.
- Monk G. W. 1957. Spectral absorption of prodigiosin in intact cells. J. Bacteriol., 74; 71—74.
- Monsour V., Colmer A. R. 1952. The action of some members of the genus *Serratia* on egg yolk complex. J. Bacteriol., 63; 597—603.
- Naylor H. B., Smith P. A. 1946. Factors affecting the viability of *Serratia marcescens* during dehydration and storage. J. Bacteriol., 52; 565—573.
- Orr C., Gordon M. T. 1956. The density and size of air-borne *Serratia marcescens*. J. Bacteriol., 71; 315—317.
- Parr L. W. 1936. Unrecorded form of *Bacterium aureum*, sole colon-group representative in a fecal specimen. Proc. Soc. Exper. Biol. Med. 35; 563—565.
- Payne W. J. 1956. Studies on bacterial utilisation of uronic acids. I. *Serratia marcescens*. J. Bacteriol., 72; 834—838.
- Pederson Carl S., Breed R. S. 1928. The fermentation of glucose by organism of the genus *Serratia*. J. Bacteriol., 14; 163—183.
- Purkayastha M., Williams R. P. 1960. Association of pigment with the cell envelope of *Serratia marcescens* (*Chromobacterium prodigiosum*). Nature, 187; 4734, 349—350.
- Reed G. B. 1937. Independent variation of several characteristics in *S. marcescens*. J. Bacteriol., 34; 255—266.
- Reid R. D. 1936. Studies on bacterial pigmentation. J. Bacteriol., 31; 205—210.
- Reid R. D. 1936. Studies on bacterial pigmentation. I. Historical considerations. J. Bacteriol., 31; 205—210.
- Riley J. M., Soloway M. 1958. Survival of *Serratia marcescens* in concentrates and suspensions stored at 5 °C. Appl. Microbiol. 6; 4.
- Ritter G. 1900. Zur Physiologie des *Bacillus prodigiosus*. Centr. f. Bakt., II. Abt., 6; 206—209.
- Rizki M. T. M. 1954. Diffusion of chromogenic inductors of *Serratia marcescens*. Proceedings of the National Academy of Sciences, 40; 11, 1057—1060.
- Rizki M. T. M. 1954 a. Diffusion of chromogenic inductors of *Serratia marcescens*. Proc. Natl. Acad. Sci. U. S., 40; 1057—1060.
- Rizki M. T. M. 1954 b. The nature of the pigment induced by chromogenic inductors of *Serratia marcescens*. Proc. Natl. Acad. Sci. U. S., 40; 1135—1138.
- Rizki M. T. M. 1958. Unidirectional diffusion of metabolites of *Serratia marcescens*. J. Bacteriol., 76; 607—611.
- Samkow S. 1903. Zur Physiologie des *Bacillus prodigiosus*. Zentr. Bakt., 11; 305—311.
- Santer U. V., Vogel H. J. 1956. Prodigiosin synthesis in *Serratia marcescens*: Isolation of a pyrrole-containing precursor. Biochim. et Biophys. Acta 19; 578—579.
- Sedláček J. et al. 1955. *Enterobacteriaceae* jako původci střevních nákaz. Praha.
- Shear M. J., Turner F. C. 1943. „Hemorrhage — producing“ polysaccharide — *Serratia marcescens*. Journ. Nat. Cancer Inst. 4; 81.
- Schad G. 1930. Die Agglutination als ein Hilfsmittel zur Identifizierung farblos gewerdener *Prodigiosus*-keime. Arch. Hyg. u. Bakteriologie, 104; 99—104.
- Sneath P. H. A. 1956. Cultural and biochemical characteristics of the genus *Chromobacterium*. J. gen. Microb. 15; 70.

- Sneath P. H. A., Buckland F. E. 1959. The serology and pathogenicity of the genus *Chromobacterium*. J. gen. Microbiol., 20; 414—425.
- Sobin B., Stahly G. 1942. The isolation and absorption spectrum maxima of bacterial carotenoid pigments. J. Bacteriol., 44; 265—276.
- Steinhaus E. A. 1959. *Serratia marcescens* Bizio as an insect pathogen. Hilgardia 28; 351—380.
- Stevenson J. P. 1959. A note on the genus *Aeromonas*. J. Gen. Microb. 21; 366.
- Sullivan M. X. 1905. Synthetic culture media and the biochemistry of bacterial pigments J. Med. Research, 14; 109—160.
- Taylor W. W., Williams R. P. 1959. Particulate-bound pigment of *Serratia marcescens* (*Chromobacterium prodigiosum*). Experientia, 15; 4: 143.
- Vernon R. G., Hepler O. E. 1954. Chromogenic bacteria with a case report of a fatal infection caused by *Serratia marcescens*. Quart. Bull. Northw. Univ. med. Sch. 28; 366.
- Wahlin J. G. 1928. A study of rennin action. I. Rennin production by *Bacillus prodigiosus*. J. Bacteriol., 14; 355—372.
- Weinberg E. D. 1951. The influence of antibiotics and amino acids on the production of pigment by *Serratia*. J. Bacteriol., 62; 785—791.
- Weiss C. M. 1949. Spectrophotometric and chromatographic analyses of the pigment produced by members of the genus *Serratia*. J. Cellular Comp. Physiol. 34; 467—492.
- Williams R. P., Green J. A. 1956. Studies on pigmentation of *Serratia marcescens*. III. The characteristics of an orange variant. J. Bacteriol., 72; 4; p. 537—542.
- Williams R. P., Green J. A., Rappoport D. A. 1956. Studies on pigmentation of *Serratia marcescens*. I. Spectral and paper chromatographic properties of prodigiosin. J. Bacteriol., 71; 115—120.
- Williams R. 1956. Symposium on bacterial pigment. Bacteriological Reviews, 20; 4; 282—284.
- Williams R. P., Taylor W. W., Hawkins, Roth I. L. 1958. A Watersoluble, Diffusible pigment produced by a strain of *Serratia marcescens* (*Chromobacterium prodigiosum*). Nature, 182; 1028—1029.
- Williams R. P., Sessums J. H. 1959. Catalase activity and pigmentation on *Serratia marcescens*. Texas Reports on Biology and Medicine, 17; 2; 259—266.
- Wilson G. S., Miles A. A. 1957. Topley and Wilson's principles of bacteriology and immunity. 4th ed. London.
- Wrede F., Rothaas A. 1934. Über das Prodigiosin, den roten Farbstoff des *Bacillus prodigiosus*. VI. Hoppe-Seyler's Z. Physiol. Chem. 226; 95—107.
- Wright E. V. 1940. Effects of soft X-ray radiation on *Serratia marcescens* and *Pseudomonas aeruginosa*. J. Bacteriol., 40; 463.
- Zimmermann O. E. 1890. Die Bakterien unseres Trink- u. Nutzwassers. Erste Reihe. C. Brunner, Chemnitz.
- Zobell C. E., Upham H. C. 1944. A list of marine bacteria including descriptions of sixty new species. University of California Press Berkeley and Los Angeles.