

Literatura

- BAKKER, P. A. H. M., 2014. Induced systemic resistance by beneficial microbes. *Annual Review of Phytopathology*, **52**, s. 347–375.
- BASTOW, J., 2012. Succession, resource processing, and diversity in detrital food webs. In: WALL, D. H. a kol. (Eds.). *Soil ecology and ecosystem services*. Oxford: Oxford University Press, s. 117–135.
- BEARE, M. H., COLEMAN, D. C., CROSSLEY, D. A., HENDRIX, P. F., ODUM, E. P., 1995. A hierarchical approach to evaluating the significance of soil biodiversity to biochemical cycling. *Plant and Soil*, **170**, s. 5–22.
- BEGON, M., HARPER, J. C. L., TOWNSEND, C. C. R., 1986. *Ecology: individuals, populations and communities*. Oxford: Blackwell Scientific Publications, 876 s.
- BELNAP, J., 2001. Microbes and microfauna associated with biological soil crusts In: BELNAP, J., LANGE, O. L. (Eds.). *Biological soil crusts: structure, function, and management*. Berlin: Springer, s. 167–174.
- BERG, M. P., 2012. Patterns of biodiversity at fine and small spatial scales. In: WALL, D. H. a kol. (Eds.). *Soil ecology and ecosystem services*. Oxford: Oxford University Press, s. 136–153.
- BLAGODATSKAYA, E., KUZYAKOV, Y., 2013. Active microorganisms in soil: critical review of estimation criteria and approaches. *Soil Biology and Biochemistry*, **67**, s. 192–211.
- BONKOWSKI, M., BRANDT, F., 2002. Do soil protozoa enhance plant growth by hormonal effects? *Soil Biology and Biochemistry*, **34**, s. 1709–1715.
- BOUCHÉ, M. B., 1975. Action de la faune sur les états de la matière organique dans les écosystèmes. In: KILBERTIUS, G., REISINGER, O., MOUREY, A., DA FONSECA, J. A. C. (Eds.). *Humification et biodegradation*. Sarreguemines: Pierron, s. 157–168.
- BRADY, N. C., WEILL, R. R., 1999. *The nature and properties of soils* (12th Edition). Upper Saddle River, New Jersey: Prentice Hall, 881 s.
- BRUSSAARD, L., 2012. Ecosystem services provided by the soil biota. In: WALL, D. H. et al. (Eds.). *Soil ecology and ecosystem services*. Oxford: Oxford University Press, s. 45–58.
- BUSCOT, F., 2005. What are soils? In: BUSCOT, F., VARMA, A. (Eds.). *Microorganisms in soils: roles in genesis and functions*. Berlin: Springer, s. 3–17.
- BÜDEL, B., 2005. Microorganisms of biological crusts on soil surfaces. In: BUSCOT, F., VARMA, A. (Eds.). *Microorganisms in soils: roles in genesis and functions*. Berlin: Springer, s. 307–323.
- DE ANGELIS, K. M., 2016. Chemical communication connects soil food web. *Soil Biology and Biochemistry*, **102**, s. 48–51.

- DE GRYZE, S., SIX, J., MERCKX, R., 2006. Quantifying waterstable soil aggregate turnover and its implication for soil organic matter dynamics in a model study. *European Journal of Soil Science*, **57**, s. 693–707.
- DE RUITER, P. C., NEUTEL, A.-M., MOORE, J., 2005. The balance between productivity and food web structure in soil ecosystems. In: BARDGETT, R. D., USHER, M. B., HOPKINS, D. W. (Eds.). *Biological diversity and function in soils*. Cambridge: Cambridge University Press, s. 139–153.
- DE VRIES, CARUSO, T., 2016. Eating from the same plate? Revisiting the role of labile carbon inputs in the soil food web. *Soil Biology and Biochemistry*, **102**, s. 4–9.
- DOJANI, S., BÜDEL, B., DEUTSCHEWITZ, K., WEBER, B., 2011. Rapid succession of biological soil crusts after experimental disturbance in the Succulent Karoo, South Africa. *Applied Soil Ecology*, **48**, s. 263–269.
- ELBERT, W., WEBER, B., BURROWS, S., STEINKAMP, J., BÜDEL, B., ANDREAE, M. O., POSCHL, U., 2012. Contribution of cryptogamic covers to the global cycles of carbon and nitrogen. *Nature Geoscience*, **5**, s. 459–462.
- ELLIS, S., MELLOR, A., 1995. *Soils and environment*. London: Routledge, 364 s.
- FLECHTNER, V. R., 2007. North American desert microbiotic soil crust communities. In: SECKBACH, J. (Ed.). *Algae and cyanobacteria in extreme environments*. Series: Cellular origin, life in extreme habitats and astrobiology, Vol. 11, Berlin: Springer, s. 539–551.
- FERNANDEZ, CH. W., LANGELEY, J. A., CHAPMAN, S., McCORMACK, M. L., KOIDE, R. T., 2016. The decomposition of ectomycorrhizal fungal necromass. *Soil Biology and Biochemistry*, **93**, s. 38–49.
- GIRI, B., GIANG, P. H., KUMARI, R., PRASAD, R., VARMA, A., 2005. Microbial diversity in soils. In: BUSCOT, F., VARMA, A. (Eds.). *Microorganisms in soils: roles in genesis and functions*. Berlin: Springer, s. 19–55.
- GOBAT, J.-M., ARAGNO, M., MATTHEY, W., 2004. *The living soil: fundamentals of soil science and soil biology*. Enfield: Science Publishers, 602 s.
- GORBUSHINA, A. A., KRUMBEIN, W. E., 2005. In: BUSCOT, F., VARMA, A. (Eds.). *Microorganisms in soils: roles in genesis and function*. Berlin: Springer, s. 59–84.
- HOFFMANN, L., 1989. Algae of terrestrial habitats. *The Botanical Review*, **55**, s. 55–102.
- HUMPHREYS, G. S., 1994. Bioturbation, biofabrics and the biomantle: an example from the Sydney Basin. In: RINGROSE-VOASE, A. J., HUMPHREYS, G. S. (Eds.). *Micromorphology in soil: Studies in management and genesis*. Amsterdam: Elsevier, s. 787–798.
- CHENU, C., COSENTINO, D., 2011. Microbial regulation of soil structural dynamics. In: RITZ, K., YOUNG, I. (Eds.). *The architecture and biology of soils: Life in inner space*. Wallingford: CAB International, s. 37–70.
- JOHNSON, D. L., 1990. Biomantle evolution and redistribution of earth materials and artifacts. *Soil Science*, **149**, s. 84–102.

JOUSSET, A., LARA, E., WALL, L. G., VALVERDE, C., 2006. Secondary metabolites help biocontrol strain *Pseudomonas fluorescens* CHA0 to escape protozoan grazing. *Applied and Environmental Microbiology*, **72**, s. 7083–7090.

KARDOL, P., THROOP, H. L., ADKINS, J., DE GRAAFF, M.-A., 2016. A hierarchical framework for studying the role of biodiversity in soil food web processes and ecosystem services. *Soil Biology and Biochemistry*, **102**, s. 33–36.

KUBIĚNA, W. L., 1948. *Entwicklungslehre des Bodens*. Wien: Springer-Verlag, 215 s.

KUZYAKOV, Y., BLAGODATSKAYA, E., 2015. Microbial hotspots and hot moments in soil: concept & review. *Soil Biology and Biochemistry*, **83**, s. 184–199.

LAVELLE, P., 1987. The importance of biological processes in productivity of soils in the humid tropics. In: DICKINSON, R. E., LOVELOCK, J. (Eds.). *Geophysiology of Amazonia*. New York: Wiley & Sons, s. 175–214.

LAVELLE, P., 2002. Functional domains in soils. *Ecological Research*, **17**, s. 441–450.

LAVELLE, P., 2012. Soil as a habitat. In: WALL, D. H. et al. (Eds.). *Soil ecology and ecosystem services*. Oxford: Oxford University Press, s. 7–27.

LAVELLE, P., BAROT, S., BLOUIN, M., DECAENS, T., JIMENEZ, J. J., JOUQUET, P., 2007. Earthworms as key actors in self-organised soil systems. In: CUDDINGTON, K., BEYERS, J. E., WILSON, W. G., HASTINGS, A. (Eds.). *Ecosystem engineers: plants to protists*. Amsterdam: Elsevier, s. 77–106.

LAVELLE, P., DECAËNS, T., AUBERT, M., BAROT, S., BLOUIN, M., BUREAU, F., MARGERIE, P., MORA, P., ROSSI, J. P., 2006. Soil invertebrates and ecosystem services. *European Journal of Soil Biology*, **42**, s. S3–S15.

LAVELLE, P., SPAIN, A. V., 2001. *Soil ecology*. Dordrecht: Kluwer Academic Publishers, 654 s.

LE BAYON R.-C., BULLINGER-WEBER G., SCHOMBURG A., TURBERG P., SCHLAEPFER R., GUENAT, C., 2017. Earthworms as ecosystem engineers: a review. In: HORTON C. G. (Ed.). *Earthworms. Types, roles and research*. New York: Nova Scientific Publishers, s. 129–177.

LUKEŠOVÁ, A., FROUZ, J., 2007. Soil and freshwater micro-algae as a food source for invertebrates in extreme environments. In: SECKBACH, J. (Ed.). *Algae and cyanobacteria in extreme environments*. Series: Cellular origin, life in extreme habitats and astrobiology, Vol. 11, Berlin: Springer, s. 267–284.

LUKEŠOVÁ, A., ZAHRADNÍKOVÁ, M., FROUZ, J., 2013. Biological soil crusts in post-mining areas. In: Frouz, J. (Ed.). *Soil biota and ecosystem development in post mining sites*. Boca Raton: CRC Press, s. 53–65.

MACE, G. M., NORRIS, K., [FITTER, A. H.](#), 2012. Biodiversity and ecosystem services: a multilayered relationship. [*Trends in Ecology and Evolution*](#), **27**, s. 19–25.

MARTENS, D. A., 2000. Management and crop residue influence soil aggregate stability. *Journal of Environmental Quality*, **29**, s. 723–727.

MONROY, F., AIRA, M., DOMÍNGUEZ, J., 2008. Changes in density of nematodes, protozoa and total coliforms after transit through the gut of four epigeic earthworms (Oligochaeta). *Applied Soil Ecology*, **39**, s. 127–132.

PAUL, E. A., CLARK, F. E., 1996. *Soil microbiology and biochemistry*. San Diego: Academic Press, 340 s.

PIERRET, A., HARTMANN, CH., MAEGHT, J.-L., PAGES, L., 2011. Biotic regulation: plants. In: RITZ, K., YOUNG, I. (Eds.). *The architecture and biology of soils: Life in inner space*. Wallingford: CAB International, s. 86–103.

RILLIG, M. C., MULLER, L. A. H., LEHMANN, A., 2017. Soil aggregates as massively concurrent evolutionary incubators. *ISME Journal*, **11**, s. 1943–1948.

RIPPIN, M., BORCHHARDT, N., WILLIAMS, L., COLESIE, C., JUNG, P., BÜDEL, B., KARSTEN, U., BECKER, B., 2018. Genus richness of microalgae and cyanobacteria in biological soil crusts from Svalbard and Livingston Island: morphological versus molecular approaches. *Polar Biology*. (<https://doi.org/10.1007/s00300-018-2252-2>)

RUSEK, J., 1985. Soil microstructures – contributions on specific soil organisms. *Quaestiones Entomologicae*, **21**, s. 497–514.

SAGARA, N., HONGO, T., MURAKAMI, Y., HASHIMOTO, T., NAGAMASU, H., FUKIHARU, T., ASAKAWA, Y., 2000. *Hebeloma radicosoides* sp nov., an agaric belonging to the chemoecological group ammonia fungi. *Mycological Research*, **104**, s. 1017-1024.

SCHEU, S., RUESS, L., BONKOWSKI, M., 2005. Interactions between microorganisms and soil micro- and mesofauna. In: BUSCOT, F., VARMA, A. (Eds.). *Microorganisms in soils: roles in genesis and functions*. Berlin: Springer, s. 253–275.

SOULE, T., ANDERSON, I. J., JOHNSON, S. L., BATERS, S. T., GARCIA-PICHEL, F., 2009. Archeal populations in biological crusts from arid lands in North America. *Soil Biology and Biochemistry*, **41**, s. 2069–2074.

SWIFT, M. J., HEAL, O. W., ANDERSON, J. M., 1979. *Decomposition in terrestrial ecosystems*. Oxford: Blackwell Scientific Publications, 372 s.

TISDALL, J. M., OADES, J. M., 1982. Organic matter and water stable aggregates in soils. *Journal of Soil Science*, **33**, s. 141–163.

VAN DER HEIJDEN, M. G. A., BARDGETT, R. D., VAN STRAALLEN, N. M., 2008. The unseen majority: soil microbes as drivers of plant diversity and productivity in terrestrial ecosystems. *Ecology Letters*, **11**, s. 296–310.

VAN ELSAS, J. D., TORSVIK, V., HARTMANN, A., OVREAS, L., JANSSON, K. J., 2007. The bacteria and archaea in soil. In: VAN ELSAS, J. D., JANSSON, J., TREVORS, J. T. (Eds.). *Modern soil microbiology* (2nd Edition). Boca Raton: CRC Press, s. 83–106.

VAN ELSAS, J. D., TAM, L., FINLAY, R. G., KILLHAM, K., TREVORS, J. T., 2007. Microbial interactions in soil. In: VAN ELSAS, J. D., JANSSON, J. K., TREVORS, J. T. (Eds.). *Modern soil microbiology* (2nd Edition). Boca Raton: CRC Press, s. 177–210

WOLKOVICH, E. M., 2016. Reticulated channels in soil food webs. *Soil Biology and Biochemistry*, **102**, s. 18–21.

WOOD, T. G., 1996. The agricultural importance of termites in the tropics. *Agricultural Zoology Reviews*, **7**, s. 117–155.

WURST, S., DE DEYN, G. B., ORWIN, K., 2012. Soil biodiversity and functions. In: WALL, D. H. et al. (Eds.). *Soil ecology and ecosystem services*. Oxford: Oxford University Press, s. 28–44.

YOUNG, I. M., CRAWFORD, J. W., NUNAN, N., OTTEN, W., SPIERS, A., 2008. Microbial distribution in soils: physics and scaling. In: SPARKS, D. L. (Ed.). *Advances in Agronomy*, **100**, s. 81–121.

ZAMIOUDIS, C., PIETERSE, C. M., 2012. Modulation of host immunity by beneficial microbes. *Molecular Plant Microbe Interaction*, **25**, s. 139–150.