

Šustr V. a kol. : Živá půda 6. Jak organismy v půdě fungují (Živa 2021, 1: 25–31)

Literatura

ALBERTS, B., JOHNSON, A., LEWIS, J., MORGAN, D., RAFF, M., ROBERTS, K., WALTER, P., 2015. *Molecular biology of the cell*. Boca Raton: Garland Science, Taylor and Francis Group, 984 s.

ARRHENIUS, S. A., 1889. Über die Reaktionsgeschwindigkeit bei der Inversion von Rohrzucker durch Säuren. *Z. Phys. Chem.*, **4**, s. 226–248. doi:10.1515/zpch-1889-0116.

ATLAS, R. M., BARTHA, R., 1993. *Microbial ecology: fundamentals and applications*. Redwood City: The Benjamin Cummings, 563 s.

BARNES, R. S. K., CALOW, P., OLIVE, P. J. W., GOLDING, D. W., SPICER, J. I., 2001. *The invertebrates. A synthesis*. London: Blackwell, 497 s.

BECHER, P. G., VERSCHUT, V., BIBB, M. J., BUSCH, M. J., MOLNÁR, B. P., BARANE, E., BUTTNER, M. J., 2020. Developmentally regulated volatiles geosmin and 2-methylisoborneol attract a soil arthropod to *Streptomyces* bacteria promoting spore dispersal. *Nature Microbiology*, **5**, s. 821–829.

BLUME, H. P., BRUMMER, G. W., FLEIGE, H., HORN, R., KANDELER, E., KOGEL-KNABNER, I., KRETZSCHMAR, R., STAHR, K., WILKE, B.-M., 2016. *Scheffer/Schachtschabel sil science*. Berlin, Heidelberg: Springer, 618 s.

BRUNE, A., 1998. Termite guts: the world's smallest bioreactors. *Trends in Biotechnology*, **16**, s. 16–21.

CALDWELL, B. A., 2005. Enzyme activities as a component of soil biodiversity: A review. *Pedobiologia*, **49**, s. 637–644.

COOPER, J. E., 2018. Anesthesia, analgesia, and euthanasia of invertebrates. *ILAR Journal*, **52**, s. 196–204.

CRAGG, S. M., BECKHAM, G. T., BRUCE, N. C., BUGG, T. D. H., DISTEL, D. L., DUPREE, P., ETXABE, A. G., GOODELL, B. S., JELLISON, J., MCGEEHAN, J. E., MCQUEEN-MASON, S. J., SCHNORR, K., WALTON, P. H., WATTS, J. E. M., ZIMMER, M., 2015. Lignocellulose degradation mechanisms across the tree of life. *Current Opinion in Chemical Biology*, **29**, s. 108–119.

CRESSER, M., KILLHAM, K., EDWARDS, A., 1993. *Soil chemistry and its applications*. New York: Cambridge University Press, 192 s.

DEEP CARBON OBSERVATORY, 2019. *Deep Carbon Observatory : a decade to discovery*. Washington, D. C.: Deep Carbon Observatory Secretariat, 60 s.

DENLINGER, D. L., LEE, R. E., 2010. *Low temperature biology of insects*. Cambridge: Cambridge University Press, 404 s.

DAMSGAARD, C., FAGO, A., HAGNER-HOLLER, S., MALTE, H., BURMESTER, T., WEBER, R. E., 2013. Molecular and functional characterization of hemocyanin of the giant African millipede, *Archispirostreptus gigas*. *Journal of Experimental Biology*, **216**, s. 1616–1623.

- DENLINGER, D. L., LEE, R. E., 2010. *Low temperature biology of insects*. Cambridge: Cambridge University Press, 404 s.
- DIX, N. J., WEBSTER, J., 1995. *Fungal ecology*. London: Chapman and Hall, 549 s.
- EKSCHMITT, K., LIU, M., VETTER, S., FOX, O., WOLTERS, V., 2005. Strategies used by soil biota to overcome soil organic matter stability – why is dead organic matter left over in the soil? *Geoderma*, **128**, s. 167–176.
- FENCHEL, T., 2014. Protozoa and oxygen. *Acta Protozoologica*, **53**, s. 3–12.
- FENCHEL, T., FINLAY, B. J., 1995. *Ecology and evolution in anoxic worlds*. Oxford: Oxford University Press, 288 s.
- GOBAT, J.-M., ARAGNO, M., MATTHEY, W., 2004. *The living soil: fundamentals of soil science and soil biology*. Enfield: Science Publishers, 602 s.
- HACKSTEIN, J. H. P., TJADEN, J., HUYNEN, M., 2006. Mitochondria, hydrogenosomes and mitosomes: Products of evolutionary tinkering! *Current Genetics*, **50**, s. 225–245.
- HACKSTEIN, J. H. P., TIELENS, A. G. M., 2010. Hydrogenosomes. In: Hackstein, J. H. P., editor. *(Endo)symbiotic Methanogenic Archaea*. Microbiology Monographs 19, Berlin, Heidelberg: Springer, s. 175–106.
- HALLIN, S., PHILIPPOT, L., LÖFFLER, F. E., SANFORD, R. A., JONES, C. M., 2018. Genomics and ecology of novel N₂O-reducing microorganisms. *Trends in Microbiology*, **26**, s. 43–55.
- HOEHLER, T. M., JØRGENSEN, B. B., 2013. Microbial life under extreme energy limitation. *Nature Reviews*, **11**, s. 83–94.
- HOESE, B., 1981. Morphologie und Funktion des Wasserleitungssystems der terrestrischen Isopoden (Crustacea, Isopoda, Oniscoidea). *Zoomorphology*, **98**, s. 135–167.
- HOESE, B., 1982. Morphologie und Evolution der Lungen bei den terrestrischen Isopoden (Crustacea, Isopoda, Oniscoidea) *Zool. J. Anat.*, **107**, s. 396–422.
- HOFFMANN, K. H., 1985. *Environmental physiology and biochemistry of insects*. Berlin: Springer, 296 s.
- HOPKIN, S. P., 1997. *Biology of the springtails (Insecta: Collembola)*. Oxford: Oxford University Press, 330 s.
- HOPKIN, S. P., READ, H., 1992. *The biology of millipedes*. Oxford: Oxford University Press, 233 s.
- HSIA, C. C. W., SCHMITZ, A., LAMBERTZ, M., PERRY, S. F., MAINA, J. N., 2013. Evolution of air breathing: oxygen homeostasis and the transitions from water to land and sky. *Comp. Physiol*, **3**, s. 849–915.

- KARLSON, P., 1981. *Základy biochemie*. Praha: Academia, 501 s.
- KONHAUSER, K., 2007. *Introduction to geomicrobiology*. Oxford: Blackwell, 425 s.
- LAVELLE, P., SPAIN, A. V., 2001. *Soil ecology*. Dordrecht: Kluwer Academic Publishers, 654 s.
- LAUBER, C. L., HAMADY, M., KNIGHT, R., FIERE, N., 2009. Pyrosequencing-based assessment of soil pH as a predictor of soil bacterial community structure at the continental scale. *Applied and Environmental Microbiology*, **75**, s. 5111–5120.
- LOSOS, B., GULIČKA, J., LELLAK, J., PELIKÁN, J., 1984. *Ekologie živočichů*. Praha: SPN, 316 s.
- MADIGAN, M. T., MARTINKO, J. M., 2006. *Brock biology of microorganisms* (11th Edition). Upper Saddle River, New Jersey: Pearson Prentice Hall, 992 s.
- MOLNÁR, P. K., SCKRABULIS, J. P., ALTMAN, K. A., RAFFEL, T. R., 2020. Thermal performance curves and the metabolic theory of ecology – A practical guide to models and experiments for parasitologists, *Journal of Parasitology*, **103**, s. 423–439, <https://doi.org/10.1645/16-148>.
- MORONO, Y., ITO, M., HOSHINO, T., TERADA, T., HORI, T., IKEHARA, M., D'HONDT, S., INAGAKI, F., 2020. Aerobic microbial life persists in oxic marine sediment as old as 101.5 million years. *Nature communications*, **11**, s. 1–9.
- NOVÁKOVÁ, L., 2009. *Anaerobní nálevníci*. Bakalářská práce. Př. fakulta UK, katedra zoologie, Praha: Univerzita Karlova, 32 s.
- ORCUT, B. N., DANIEL, I., DASGUPTA, R., 2020. *Deep carbon : past to present*. Cambridge: Cambridge University Press, 688 s.
- OREN, A., 2009. *Chemolithotrophy* [online]. [cit. 12. 6. 2018]. Dostupné z: <http://www.els.net/WileyCDA/ElsArticle/refId-a0021153.html>.
- PLANTE, A. F., STONE, M. M., MCGILL, W. B., 2015. The metabolic physiology of soil microorganisms. In: PAUL, E. (Ed.). *Soil microbiology, ecology and biochemistry* (4th Edition). Amsterdam: Academic Press, s. 245–272.
- RASCHMANOVÁ, N., ŽUROVCOVÁ, M., KOVÁČ, L., PAUČULOVÁ, L., ŠUSTR, V., JAROŠOVÁ, A., CHUNDELOVÁ, D., 2017. The cold-adapted population of *Folsomia manolachei* (Hexapoda, Collembola) from a glaciated karst doline of Central Europe: evidence for a cryptic species? *Journal of Zoological Systematics and Evolutionary Research*, **55**, s. 19–28.
- REVSBECH, N. P., JØRGENSEN, B. B., 1986. Microelectrodes: their use in microbial ecology. In: Marshall, K. C. (Ed.). *Advances in Microbial Ecology*, New York: Springer, s. 293–352.
- ROSYPAL, S., 1981. *Obecná bakteriologie*. Praha: SPN, 750 s.
- ROSYPAL, S., a kol., 2003. *Nový přehled biologie*. Praha: Scientia, 797 s.

- SCHMALFUSS, H., 1998. Evolutionary strategies of the antennae in terrestrial isopods. *Journal of Crustacean Biology*, **18**, s. 10–24.
- SCHMIDT, M. W. I., TORN, M. S., ABIVEN, S., DITTMAR, T., GUGGENBERGER, G., JANSSENS, I. A., KLEBER, M., KÖGEL-KNABNER, I., LEHMANN, J., MANNING, D. A. C., NANNIPIERI, P., RASSE, D. P., WEINER, S., TRUMBORE, S. E., 2011. Persistence of soil organic matter as an ecosystem property. *Nature*, **478**, s. 49–56.
- SCHMIDT, C., WÄGELE, J. W., 2001. Morphology and evolution of respiratory structures in the pleopod exopodites of terrestrial Isopoda (Crustacea, Isopoda, Oniscidea). *Acta Zoologica (Stockholm)*, **82**, s. 315–330,
- SCHULTE, P. M., 2015. The effects of temperature on aerobic metabolism: towards a mechanistic understanding of the responses of ectotherms to a changing environment. *The Journal of Experimental Biology* 218, s. 1856-1866, doi:10.1242/jeb.118851*
- STANDING, D., KILLHAM, K., 2007. The soil environment. In: VAN ELSAS, J. D., JANSSON, J., TREVORS, J. T. (Eds.). *Modern soil microbiology* (2nd Edition). Boca Raton: CRC Press, s. 1–22.
- ŠUSTR, V., ŠIMEK, M., 1996. Behavioural responses to and lethal effects of elevated carbon dioxide concentration in soil invertebrates. *European Journal of Soil Biology*, **32**, s. 149–155.
- ŠUSTR, V., CHROŇÁKOVÁ, A., SEMANOVÁ, S. TAJOVSKÝ K., ŠIMEK M., 2014. Methane production and methanogenic Archaea in the digestive tracts of millipedes (Diplopoda). *Plos One*, **9**, s. 1–13.
- TESAŘOVÁ, M., FILIP, Z., SZOSTKOVÁ, M., MORSHECK, G., 2010. *Biologické zpracování odpadů*. Brno: Mendelova univerzita, 129 s.
- WARD, O. P., 1995. *Fermentation biotechnology*. Chichester: Wiley, 227 s.
- ZETTEL, J., ZETTELOVÁ, U., 1997. Někdo to rád chladné. Podivná bionomie chvostoskoka *Ceratophysella sigillata* aktivního v zimě. *Vesmír*, **76**, s. 103.
- ZETTEL, J., 1984. The significance of temperature and barometric pressure changes for the snow surface activity of *Isotoma hiemalis* (Collembola). *Experientia*, **40**, s. 1369–1371.