

Literature

1. ABEDI, E., SAHARI, M., A. 2014. Long-chain polyunsaturated fatty acid sources and evaluation of their nutritional and functional properties. *Food science & nutrition*, 2.5: 443-463.
2. ADZITEY, F.; NURUL, H. 2011. Pale soft exudative (PSE) and dark firm dry (DFD) meats: causes and measures to reduce these incidences-a mini review. *International Food Research Journal*, 18. (1).
3. AHN, D. U., et al. 2000. Quality characteristics of pork patties irradiated and stored in different packaging and storage conditions. *Meat Science*, 2000, vol.56.no. 2, p.203-209.
4. ALONSO, V., et al. 2009. Effect of crossbreeding and gender on meat quality and fatty acid composition in pork. *Meat Science*, vol. 81. no.1, p. 209-217.
5. APPLGATE, B. L. 2007. Extraction, Derivatization, and Analysis of Fatty Acid Methyl Ester (FAME) in Tissue Homogenates and Blubber by ASE and Gas Chromatography. *Short description of FAME Analysis. Applied Science, Engineering, and Technology Laboratory, University of Alaska Anchorage.*
6. ARIHARA, K. 2006. Strategies for designing novel functional meat products. *Meat science*, 74(1), 219-229.
7. BAGER, F., et al. 1995. Control of Salmonella in Danish pork. *Fleischwirtschaft*, 75. No.8, p. 1000-1001.
8. BALÁŽOVÁ, Ž. et al. 2014. *Základy biochémie*. Slovenská poľnohospodárska univerzita v Nitre. 145 s. ISBN 978-80-552-1166-4.
9. BARDÓCZ, S. 1995. Polyamines in food and their consequences for food quality and human health. *Trends in Food Science & Technology*, 6.10: 341-346.
10. BELITZ, H. D.; GROSCH, W.; SCIEBERLE, P. 2001. Auflage. Food Chemistry. *Springer Verlag, Berlin, Germany*, 572.
11. BENCH, C. 2008. The welfare implications of the transport of pigs: The scientific background of current international loading density standards. *Technical Bulletin*, 2007-14.
12. BLONDEAU, N. 2016. The nutraceutical potential of omega-3 alpha-linolenic acid in reducing the consequences of stroke. *Biochimie*, 120. p. 49-55.
13. BRESTENSKÝ, M., et al. 2015. Branched chain amino acids and their importance in nutrition. *The Journal of Microbiology, Biotechnology and Food Sciences*, 5.2. p. 197.

14. BROOKS, J. W. 2016. Postmortem changes in animal carcasses and estimation of the postmortem interval. *Veterinary pathology*, 53.5. p. 929-940.
15. BU, B., et al. 2006. Fatty acid compositions of red blood cell phospholipids in children with autism. *Prostaglandins, leukotrienes and essential fatty acids*, 74.4. p. 215-221.
16. BYELASHOV, O. A.; SINCLAIR, A. J.; KAUR, G. 2015. Dietary sources, current intakes, and nutritional role of omega-3 docosapentaenoic acid. *Lipid technology*, 27.4. p. 79-82.
17. CARLUCCIO, M. A., et al. 1999. Oleic acid inhibits endothelial activation: a direct vascular antiatherogenic mechanism of a nutritional component in the Mediterranean diet. *Arteriosclerosis, thrombosis, and vascular biology*, 19.2. p. 220-228.
18. CHANNON, H. A., D'SOUZA, D. N., DUNSHEA, F. R. 2018. Diet composition and slaughter age up to 24 weeks have minimal impact on pork eating quality of loin steaks and silverside roasts from female pigs. *Meat science*, 135. p. 94-101.
19. CHEN, Q., et al. 2013. Nondestructive measurement of total volatile basic nitrogen (TVB-N) content in salted pork in jelly using a hyperspectral imaging technique combined with efficient hypercube processing algorithms. *Analytical Methods*, 5.22: 6382-6388.
20. CLAUSSEN, C. M. et al. 2018. *Method for the manufacture of pre-rigor sausage*. U.S. Patent No 9. 872. p. 512.
21. CORINO, C., ROSSI, R., CANNATA, S., & RATTI, S. 2014. Effect of dietary linseed on the nutritional value and quality of pork and pork products: Systematic review and meta-analysis. *Meat science*, 98(4), 679-688.
22. CORREA, J. A. et al. 2006. Effects of slaughter weight on carcass composition and meat quality in pigs of two different growth rates. *Meat Sci.*, 72, 91-99.
23. ČUBOŇ, J. – HAŠČÍK, P. – KAČÁNIOVÁ, M. 2012. Hodnotenie surovín a potravín živočíšneho pôvodu. Slovenská poľnohospodárska univerzita v Nitre. 381 s. ISBN 9788055208701.
24. DADÁKOVÁ, E. PELIKÁNOVÁ, T. KALÁČ, P. 2011. Concentration of biologically active polyamines in meat and liver of sheep and lambs after slaughter and their changes in mutton during storage and cooking. *Meat science*, 87.2: 119-124.
25. DAUN, C., & ÅKESSON, B. 2004. Glutathione peroxidase activity, and content of total and soluble selenium in five bovine and porcine organs used in meat production. *Meat science*, 66(4), 801-807.
26. DAYRIT, F. M. 2015. The properties of lauric acid and their significance in coconut oil. *Journal of the American Oil Chemists' Society*, 92.1: 1-15.

27. DEBRECENI, O., KOMOVA, P., BUČKO, O. 2016. Comparison the physicochemical quality indicators of Musculus Longissimus Dorsi from Mangalitsa Breed and their crossbreeds. *Journal of Central European Agriculture*, 17.4: 1253-1263.
28. D'MELLO, J. F. (Ed.). 2011. *Amino acids in human nutrition and health*. CABI.
29. DUGAN, M., et al. 2015. Pork as a source of omega-3 (n-3) fatty acids. *Journal of Clinical Medicine*, 4.12: 1999-2011.
30. ESTEVE, M. J., et al. 2002. Contents of vitamins B1, B2, B6, and B12 in pork and meat products. *Meat Science*, 62.1: 73-78.
31. EUSTACE, I. J. 1981. Some factors affecting oxygen transmission rates of plastic films for vacuum packaging of meat. *International Journal of Food Science & Technology*, 16.1: 73-80.
32. FLOCK, M. R., & KRIS-ETHERTON, P. M. 2011. Dietary Guidelines for Americans 2010: implications for cardiovascular disease. *Current atherosclerosis reports*, 13(6), 499-507.
33. FONTANESI, L., DAVOLI, R., COSTA, L. N., BERETTI, F., SCOTTI, E., TAZZOLI, M., ... & RUSSO, V. 2008. Investigation of candidate genes for glycolytic potential of porcine skeletal muscle: Association with meat quality and production traits in Italian Large White pigs. *Meat science*, 80(3), 780-787.
34. FONTANESI, L., SCHIAVO, G., GALIMBERTI, G., BOVO, S., RUSSO, V., GALLO, M., & BUTTAZZONI, L. 2017. A genome-wide association study for a proxy of intermuscular fat level in the Italian Large White breed identifies genomic regions affecting an important quality parameter for dry-cured hams. *Animal Genetics*, 48, 459-465.
35. FOŘT, P., 2007. *Tak co mám jíst?*. Praha: Grada Publishing. 417 p. ISBN 978-80-247-1459-2.
36. GALGANO, F., et al. 2009. Role of biogenic amines as index of freshness in beef meat packed with different biopolymeric materials. *Food Research International*, 42.8: 1147-1152.
37. GALLARDO, B., MANCA, M. G., MANTECÓN, A. R., NUDDA, A., & MANSO, T. 2015. Effects of linseed oil and natural or synthetic vitamin E supplementation in lactating ewes' diets on meat fatty acid profile and lipid oxidation from their milk fed lambs. *Meat science*, 102, 79-89.

38. GEVERINK, N. A., et al. 1998. Effects of regular moving and handling on the behavioral and physiological responses of pigs to preslaughter treatment and consequences for subsequent meat quality. *Journal of Animal Science*, 76.8, p.2080-2085.
39. HALÁSZ, A., et al. 1994. Biogenic amines and their production by microorganisms in food. *Trends in Food Science & Technology*, 5.2, p. 42-49.
40. HALLENSTVEDT, E., et al. 2012. Changes in texture, colour and fatty acid composition of male and female pig shoulder fat due to different dietary fat sources. *Meat science*, 90.3, p. 519-527.
41. HAMLEY, S. 2017. The effect of replacing saturated fat with mostly n-6 polyunsaturated fat on coronary heart disease: a meta-analysis of randomised controlled trials. *Nutrition journal*, 16.1. p. 30.
42. HERTZMAN, C., GÖRANSSON, L., RUDÉRUS, H. 1988. Influence of fishmeal, rape - seed, and rape-seed meal in feed on the fatty acid composition and storage stability of porcine body fat. *Meat Science*, 23.1, p. 37-53.
43. HORVÁTH, J., et al. 2012. *Chov hospodárskych zvierat*. Bratislava: Vydavateľstvo Príroda, spol. s.r.o. 416 p. ISBN 978-80-02094-8.
44. ISMAIL, B., P. 2017. Ash content determination. *Food Analysis Laboratory Manual*. Springer, Cham, p. 117-119.
45. JEDLIČKA, J. 2009. *Zdravý životný štýl*. Nitra : Slovenská poľnohospodárska univerzita. 315 p. ISBN 978-80-552-0295-2.
46. JENKINS, B., WEST, J., KOULMAN, A. 2015. A review of odd-chain fatty acid metabolism and the role of pentadecanoic acid (C15: 0) and heptadecanoic acid (C17: 0) in health and disease. *Molecules*, 20.2. p. 2425-2444.
47. JOO, S. T., et al. 2002. Effects of dietary conjugated linoleic acid on fatty acid composition, lipid oxidation, color, and water-holding capacity of pork loin. *Journal of Animal Science*, 80.1: 108-112.
48. KADLEČÍK, O., KASARDA, R. 2012. *Všeobecná zootechnika*. Nitra : Slovak University of Agriculture. 237 p. ISBN 978-80-552-0818-3.
49. KEMP, C. M., PARR, T. 2012. Advances in apoptotic mediated proteolysis in meat tenderisation. *Meat Science*, 92.3. p. 252-259.
50. KOPČEKOVÁ, J. GAŽAROVÁ, M. 2016. *Náuka o potravinách*. Nitra : Slovak University of Agriculture. 181 p. ISBN 978-80-552-1513-6.

51. KROČKO, Miroslav – BOBKO, Marek – HAŠČÍK, Peter. 2018. *Technológia spracovania mäsa II*. Nitra: Slovak University of Agriculture. 161 s. ISBN 978-80-552-1789-5.
52. LATORRE, M. A., et al. 2003. Effect of sex and terminal sire genotype on performance, carcass characteristics, and meat quality of pigs slaughtered at 117 kg body weight. *Meat science*, 65.4, p. 1369-1377.
53. LEBRET, B., et al. 2015. Influence of production system in local and conventional pig breeds on stress indicators at slaughter, muscle and meat traits and pork eating quality. *animal*, 9.8. p. 1404-1413.
54. LU, N., et al. 2014. Myristic acid (MA) promotes adipogenic gene expression and the differentiation of porcine intramuscular adipocyte precursor cells. *Journal of Integrative Agriculture*, 13.11. p. 2488-2499.
55. LUCHSINGER, S. E., et al. 1997. Sensory analysis of irradiated ground beef patties and whole muscle beef 1. *Journal of sensory studies*, 12.2, p.105-126.
56. LUND, M. N., HEINONEN, M., BARON, C. P., & ESTÉVEZ, M. 2011. Protein oxidation in muscle foods: A review. *Molecular nutrition & food research*, 55(1), 83-95.
57. LYBERG, A. M., FASOLI, E., & ADLERCREUTZ, P. (2005). Monitoring the oxidation of docosahexaenoic acid in lipids. *Lipids*, 40(9), 969.
58. MANCINI, A., et al. 2015. Biological and nutritional properties of palm oil and palmitic acid: Effects on health. *Molecules*, 20.9. p. 17339-17361.
59. MERCIER, Y., GATELLIER, P., & RENERRE, M. 2004. Lipid and protein oxidation in vitro, and antioxidant potential in meat from Charolais cows finished on pasture or mixed diet. *Meat Science*, 66(2), 467-473.
60. MONIN, G., & SELLIER, P. 1985. Pork of low technological quality with a normal rate of muscle pH fall in the immediate post-mortem period: The case of the Hampshire breed. *Meat Science*, 13(1), 49-63.
61. MOREIRAS, O., et al. 2009. Tablas de Composición de Alimentos Food Composition Tables. *Pirámide: Madrid, Spain*.
62. MURPHY, K. J., MEYER, B. J., MORI, T. A., BURKE, V., MANSOUR, J., PATCH, C. S., ... & PUDDEY, I. B. (2007). Impact of foods enriched with n-3 long-chain polyunsaturated fatty acids on erythrocyte n-3 levels and cardiovascular risk factors. *British Journal of Nutrition*, 97(4), 749-757.
63. NGAPO, T., M., VACHON, L. 2017. Biogenic amine concentrations and evolution in “chilled” Canadian pork for the Japanese market. *Food chemistry*, 233. p. 500-506.

64. NIKOLIC, D., et al. 2015. Comparison of essential metals in different pork meat cuts from the Serbian market. *Procedia Food Science*, 5. p. 211-214.
65. OKROUHLÁ, M., et al. 2006. Amino acid composition of pig meat in relation to live weight and sex. *Czech J. Anim.* (12). p.529–534.
66. ORTUÑO, J., SERRANO, R., & BAÑÓN, S. 2015. Antioxidant and antimicrobial effects of dietary supplementation with rosemary diterpenes (carnosic acid and carnosol) vs vitamin E on lamb meat packed under protective atmosphere. *Meat Science*, 110, 62-69.
67. PEINADO, J., et al. 2011. Productive performance, carcass and meat quality of intact and castrated gilts slaughtered at 106 or 122 kg BW. *Animal*, 5.7. p. 1131-1140.
68. PEINADO, J., et al. 2012. The effects of gender and castration of females on performance and carcass and meat quality of heavy pigs destined to the dry-cured industry. *Meat science*, 90.3. p. 715-720.
69. PEREIRA, P. M., VICENTE, A., F. 2013. Meat nutritional composition and nutritive role in the human diet. *Meat science*, 93.3. p. 586-592.
70. POGGE, D. J., LONERGAN, S. M., & HANSEN, S. L. 2014. Influence of supplementing vitamin C to yearling steers fed a high sulfur diet during the finishing period on meat color, tenderness and protein degradation, and fatty acid profile of the longissimus muscle. *Meat science*, 97(4), 419-427.
71. REIG, M., ARISTOY, M. C., TOLDRÁ, F. 2013. Variability in the contents of pork meat nutrients and how it may affect food composition databases. *Food chemistry*, 140.3. p. 478-482.
72. ROSENVOLD, K., ANDERSEN, H. J. 2003. Factors of significance for pork quality—a review. *Meat science*, 64.3. p. 219-237.
73. ROSENVOLD, K., et al. 2002. Manipulation of critical quality indicators and attributes in pork through vitamin E supplementation, muscle glycogen reducing finishing feeding and pre-slaughter stress. *Meat Science*, 62.4. p. 485-496.
74. RUSSO, V., BUTTAZZONI, L., BAIOTTO, C., DAVOLI, M. R., NANNI COSTA, N. L., SCHIVAZAPPA, O. C., & VIRGILI, P. C. 2000. Heritability of muscular cathepsin B activity in Italian Large White pigs. *Journal of Animal Breeding and Genetics*, 117(1), 37-42.
75. RUUSUNEN, M.; PUOLANNE, E. 1997. Comparison of histochemical properties of different pig breeds. *Meat Science*, 45.1: p. 119-125.

76. RYU, Y. C., et al. 2008. Comparing the histochemical characteristics and meat quality traits of different pig breeds. *Meat Science*, 80.2, p.363-369.
77. SALAS, R., Cesar D., MINGALA, C. N. 2017. Genetic factors affecting pork quality: halothane and Rendement Napole genes. *Animal biotechnology*, 28.2. p. 148-155.
78. SCHIVAZAPPA, C., DEGNI, M., COSTA, L. N., RUSSO, V., BUTTAZZONI, L., & VIRGILI, R. 2002. Analysis of raw meat to predict proteolysis in Parma ham. *Meat Science*, 60(1), 77-83.
79. SCHWARTZKOPF-GENSWEIN, K. S., et al. 2012. Road transport of cattle, swine and poultry in North America and its impact on animal welfare, carcass and meat quality: A review. *Meat science*, 92.3. p. 227-243.
80. ŠEVČÍKOVÁ, S., KOUCKÝ, M., LAŠTOVKOVÁ, J. 2002. Meat performance and quality in different genotypes of generation gilts. *Czech J. Anim. Sci.*, 47, p. 395–400.
81. SHALABY, A. R. 1996. Significance of biogenic amines to food safety and human health. *Food research international*, 29.7. p. 675-690.
82. SIDOR, E. 2003. *Chov hospodárskych zvierat*. Nitra: Slovak University of Agriculture. 131 p. ISBN 80-8069-156-8.
83. ŠIMEK, J., VORLOVÁ, L., STEINHAUSER, L., 2002. Jakostní odchytky masa a jejich identifikace. *Maso* (8) 2002. p. 24-27.
84. SIMOPOULOS, A. 2016. An increase in the omega-6/omega-3 fatty acid ratio increases the risk for obesity. *Nutrients*, 8.3. p.128.
85. SLÁDEK, L., 2020. The influence of Duroc breed, slaughter weight, sex and intramuscular fat content in *MLLT* on the carcass value of hybrid pigs. *Czech J. Anim. Sci.*, In press.
86. SOUCI, S. W.; FACHMANN, W.; KRAUT, H. 1989. Food Composition and Nutrition Table 1989/90. edited by Deutsche Forschungsanstalt für Lebensmittelchemie, Garching b. München, compiled by Scherts, H. & Senser, F. pub.
87. STANIŠIĆ, N., et al. 2015. Physicochemical properties of meat from Mangalitsa pig breed. *Meso*, 17.1. p. 50-53.
88. STRAPÁK, P. – MARGETÍN, M. et al. 2017. *Živočišna výroba*. 1. vyd. Slovenská poľnohospodárska univerzita v Nitre. 311 s. ISBN 978-80-552-1776-5.
89. STUBBS, R. L., MORGAN, J. B., RAY, F. K., & DOLEZAL, H. G. 2002. Effect of supplemental vitamin E on the color and case-life of top loin steaks and ground chuck patties in modified atmosphere case-ready retail packaging systems. *Meat science*, 61(1), 1-5.

90. SVAČINA, Š. et al. 2008. *Klinická dietologie*. Praha: Grada Publishing, a.s. 384 p. ISBN 978-80-247-2256-6.
91. SZABOVÁ, E. 2018. *Biochémia výživy*. Nitra: Slovak University of Agriculture. 100 s. ISBN 978-80-552-1907-3.
92. TARTÉ, R. 1996. Sensitivity of *Listeria* to irradiation in raw ground meat, as affected by type of radiation, product temperature, packaging atmosphere, and recovery medium.
93. TOMOVIC, V., et al. 2015. Minerals in pork meat and edible offal. *Procedia food science*, 5. p. 293-295.
94. TREFAN, L., et al. 2013. Meta-analysis of effects of gender in combination with carcass weight and breed on pork quality. *Journal of Animal Science*, 91.3. p. 1480-1492.
95. TREVISAN, M. (2001). "Correlates of Markers of Oxidative Status in the General Population". *American Journal of Epidemiology*. 154 (4): 348–356.
96. URMINSKÁ, D. et al. 2017. *Biochémia*. Slovak University of Agriculture. 287 p. ISBN 978-80-552-1693-5.
97. Vestník Ministerstva zdravotníctva Slovenskej republiky, Čiastka 4-5, 19. júna 2015, Ročník 63.
98. Vyhláška č. 423/2012 Z. z. Vyhláška Ministerstva pôdohospodárstva a rozvoja vidieka Slovenskej republiky o mäse jatočných zvierat.
99. Vyhláška Ministerstva pôdohospodárstva Slovenskej republiky zo 4. apríla 205/2007 o klasifikácii jatočne opracovaných tiel ošípaných, o odbornej príprave a o osvedčení o odbornej spôsobilosti.
100. Vestník Ministerstva zdravotníctva Slovenskej republiky, Čiastka 4-5, 19. júna 2015, Ročník 63.
101. WOOD, J. D. 1995. The influence of carcass composition on meat quality. *Quality and grading of carcasses of meat animals*, p. 131-155.
102. WOOD, J. D.; ENSER, M. 1997. Factors influencing fatty acids in meat and the role of antioxidants in improving meat quality. *British journal of Nutrition*, 78.1. p. 49-60.
103. WU, G. 2009. Amino acids: metabolism, functions, and nutrition. *Amino acids*, 37.1. p.1-17.
104. WYNESS, L. 2016. The role of red meat in the diet: nutrition and health benefits. *Proceedings of the Nutrition Society*, 75.3. p. 227-232.

105. ZANARDI, E., DORIGONI, V., BADIANI, A., & CHIZZOLINI, R. 2002. Lipid and colour stability of Milano-type sausages: effect of packing conditions. *Meat Science*, 61(1), 7-14.
106. ZOU, Yi, et al. 2016. Protective effect of quercetin on pig intestinal integrity after transport stress is associated with regulation oxidative status and inflammation. *Journal of Veterinary Medical Science*, 78.9: p. 1487-1494.

Internetové zdroje:

107. URL 1 <https://coastlinesurfsystem.com/farma/chov-osipanych-s-popismi-a-fotografiami-na-chov-na/>
108. URL 2 https://www.ifip.asso.fr/sites/default/files/pdf-documentations/english_version_cahier_ifip_vol01_2016_daumas.pdf
109. URL 3 https://www.banffpork.ca/tinymceuploads/source/2019/Presentations/Plastow_
110. URL 4 http://qpc.adm.slu.se/6_Fundamentals_of_WHC/page_15.htm
111. URL 5 https://tools.thermofisher.com/content/sfs/brochures/BR50555_E_0513M