

plant lighting systems (uMOL)”, Grant Agreement Nr. 1.1.1.1/16/A/261.

References

- Asensio E., Sanvicente I., Mallor C., Menal-Puey S. (2019) Spanish traditional tomato. Effects of genotype, location and agronomic conditions on the nutritional quality and evaluation of consumer preferences. *Food Chemistry*, Vol. 270, p. 452–458.
- Böhm V. (2012) Lycopene and heart health. *Molecular Nutrition and Food Research*, Vol. 56(2), p. 296–303.
- Borghesi E., Ferrante A., Gordillo B., Rodriguez-Pulido F.J. (2016) Comparative physiology during ripening in tomato rich-anthocyanins fruits. *Plant Growth Regulation*, Vol. 80, p. 207–214.
- Borghesi E., González-Miret M. L., Escudero-Gilete M. L., Malorgio F., Heredia F. J., Meléndez-Martínez A. J. (2011) Effects of salinity stress on carotenoids, anthocyanins, and color of diverse tomato genotypes. *Journal of Agricultural and Food Chemistry*, Vol. 59(21), p. 11676–11682.
- Breksa A.P., Robertson L.D., Labate J.A. (2015) Physicochemical and morphological analysis of ten tomato varieties identifies quality traits more readily manipulated through breeding and traditional selection methods. *Journal of Food Composition and Analysis*, Vol. 42, p. 16–25.
- Central Statistical Bureau of Latvia (2017) Monthly menu of Latvia inhabitants 2017 [accessed on 15.01.2019.]. Available at: <https://www.csb.gov.lv/en/statistics/statistics-by-theme/social-conditions/household-budget/search-in-theme/107-monthly-menu-latvia-inhabitant>
- Coyago-Cruz E., Corell M., Moriana A., Brahm P.M., Hernanz D., Stinco C.M., Beltrán-Sinchiguano E., Meléndez-Martínez A.J. (2019) Study of commercial quality parameters, sugars, phenolics, carotenoids and plastids in different tomato varieties. *Food Chemistry*, Vol. 277, p. 480–489.
- Cooperstone J. L., Tober K. L., Riedl K. M., Teegarden M. D., Cichon M. J., Francis D. M., Oberyszyn T. M. (2017). Tomatoes protect against development of UV-induced keratinocyte carcinoma via metabolomic alterations. *Scientific Reports*, Vol. 7(1), p. 1–9.
- Dhandevi P., Rajesh J. (2015) Fruit and vegetable intake: benefits and progress of nutrition education interventions. *Iranian Journal of Public Health*, Vol. 44, p.1309–1321.
- Duma M., Alsina I., Dubova L., Erdberga I. (2015) Chemical composition of tomatoes depending on the stage of ripening. *Chemine Technologija*, No.1(66), p. 24–28.
- Fangman L., Xietian S., Lang W., Haixu C., Yan L., Yan Z. (2018) Heredities on fruit color and pigment content between green and purple fruits in tomato. *Scientia Horticulturae*, Vol. 235, p. 391–396.
- Fernqvist F., Ekelund L. (2013) Consumer attitudes towards origin and organic - The role of credence labels on consumers' liking of tomatoes. *European Journal of Horticultural Science*, Vol. 78(4), p. 184–190.
- Hernandez- Suarez M., Rodriguez E.M., Diaz Romero C. (2008) Chemical composition of tomato (*Lycopersicon esculentum*) from Tenerife, the Canary Islands. *Food Chemistry*, No.106, p. 1046–1056.
- Informative material of Ministry of Agriculture [accessed on 15.01.2019.]. Available at: <https://www.zm.gov.lv/public/ck/files/ZM/tirgus/Nozaru%20parskati/Darzeni.pdf>
- Nagata M., Yamashita I. (1992) Simple method for simultaneous determination of chlorophyll and carotenoids in tomato fruit. *Journal of Japan Food Science and Technology*, Vol. 39, p. 925–928.
- Narvez B., Letard M., Graselly D., Jost M. (1999) Les criteres de qualite de la tomate. *Infos-Citfl*, Vol.155, p. 41–47.
- Nielsen S. (2003) *Food analysis* (3rd ed.). New-York, Kluwer Academic/Plenum Publishers, 534 p.
- Park M. H., Sangwanangkul P., Baek D. R. (2018) Changes in carotenoid and chlorophyll content of black tomatoes (*Lycopersicon esculentum L.*) during storage at various temperatures. *Saudi Journal of Biological Sciences*, Vol. 25(1), p. 57–65.
- Peihoto J.V.M., Goncalvez L., Garcia C., Nascimento A., Moraes E.R., Ferreira T.A., Fernandes M.R., Pereira V. (2018) Post-harvest evaluation of tomato genotypes with dual purpose. *Food Science and Technology*, Vol. 38(2), p. 477–486.
- Pinela J., Oliveira M.B., Ferreira I. (2016), Bioactive compounds of tomatoes as health promoters. **In:** *Natural Bioactive Compounds from Fruits and Vegetables*, Chapter 3, p. 48–91.
- Stommel J., Abbott J.A., Saftner R.A., Camp M.J. (2005) Sensory and objective quality attributes of beta-carotene and lycopene-rich tomato fruit. *Journal of American Society for Horticultural Science*, Vol. 130, p. 244–251.
- Tieman D., Zhu G., Resende M. F. R., Lin T., Nguyen C., Bies D., Rambla J. L., Beltran K. S. O., Taylor M., Zhang B. (2017) A chemical genetic roadmap to improved tomato flavor. *Science*, Vol. 355, p. 391–394.
- Toor R. K., Savage G. P. (2005) Antioxidant activity in different fractions of tomatoes. *Food Research International*, Vol. 38, p. 487–494.
- Vinha A. F., Barreira S. V. P., Castro A., Costa A., Oliveira B. P. P. (2013) Influence of the storage conditions on the physicochemical properties, antioxidant activity and microbial flora of different tomato (*Lycopersicon esculentum L.*) cultivars. *Journal of Agricultural Science*, Vol. 5(2), p. 118–128.
- Zhang J., Zhao J., Xu Y., Liang J., Chang P., Yan F., Li M., Liang Y., Zou Z. (2015) Genome-wide association mapping for tomato volatiles positively contributing to tomato flavor. *Frontiers in Plant Science*, Vol. 6, p.1042–1050.
- Zhao C., Chen W., Zhi W. (2012) Preliminary identification of red pigment and positive correlation between the contents of red pigment and total saponins of *Panax notoginseng* fruits. *Agricultural Science and Technology*, Vol. 13, p. 1891–1895.