

BIBLIOGRAPHY

- AABY, K., SKREDE, G. & WROLSTAD, R. E. 2005. Phenolic composition and antioxidant activities in flesh and achenes of strawberries (*Fragaria ananassa*). *Journal of Agricultural and Food chemistry*, 53, 4032-4040.
- ABDUL-RAZEK, T. & AL-SAID, A. 2017. A comparison of linear and nonlinear regression models. *Journal of Progressive Research in Mathematics*, 12, 2039-2056.
- ABELES, F. B. & TAKEDA, F. 1990. Cellulase activity and ethylene in ripening strawberry and apple fruits. *Scientia Horticulturae*, 42, 269-275.
- ALAVOINE, F. & CROCHON, M. Taste quality of strawberry. International Strawberry Symposium 265, 1988. 449-452.
- ARAKERI, M. P. & LAKSHMANA 2016. Computer Vision Based Fruit Grading System for Quality Evaluation of Tomato in Agriculture industry. *Procedia Computer Science*, 79, 426-433.
- ARCHONTOULIS, S. V. & MIGUEZ, F. E. 2015. Nonlinear regression models and applications in agricultural research. *Agronomy Journal*, 107, 786-798.
- ASEAN MINISTERS ON AGRICULTURE AND FORESTRY (AMAF) 2020. ASEAN STANDARD FOR STRAWBERRY (ASEAN Stan 65:2020). Association of Southeast Asia Nation (ASEAN).
- ASISTEN DEPUTI PEREKONOMIAN DAERAH DAN SEKTOR RIIL 2021. Laporan Perkembangan PDB/PDRB Sektoral dan Ekonomi Daerah: Sektor Pertanian sebagai *Buffer* Perekonomian Indonesia di Masa Pandemi. Jakarta: Kementerian Koordinator Bidang Perekonomian Republik Indonesia.
- AZODANLOU, R., DARBELLAY, C., LUISIER, J.-L., VILLETIAZ, J.-C. & AMADÒ, R. 2003. Quality assessment of strawberries (*Fragaria* species). *Journal of Agricultural and Food Chemistry*, 51, 715-721.
- BADAN PUSAT STATISTIK 2022. Produksi Tanaman Buah-buahan.
- BARRETT, D. M., BEAULIEU, J. C. & SHEWFELT, R. 2010. Color, flavor, texture, and nutritional quality of fresh-cut fruits and vegetables: desirable levels, instrumental and sensory measurement, and the effects of processing. *Critical reviews in food science and nutrition*, 50, 369-389.
- BASSON, C., GROENEWALD, J., KOSSMANN, J., CRONJÉ, C. & BAUER, R. 2010. Sugar and acid-related quality attributes and enzyme activities in strawberry fruits: Invertase is the main sucrose hydrolysing enzyme. *Food Chemistry*, 121, 1156-1162.
- BATES, D. M. & WATTS, D. G. 1988. *Nonlinear regression analysis and its applications*, Wiley.
- BATISTA-SILVA, W., NASCIMENTO, V. L., MEDEIROS, D. B., NUNES-NESI, A., RIBEIRO, D. M., ZSÖGÖN, A. & ARAÚJO, W. L. 2018. Modifications in organic acid profiles during fruit development and ripening: correlation or causation? *Frontiers in Plant Science*, 9, 1689.
- BEAUVOIT, B., BELOUAH, I., BERTIN, N., CAKPO, C. B., COLOMBIÉ, S., DAI, Z., GAUTIER, H., GÉNARD, M., MOING, A. & ROCH, L. 2018. Putting primary metabolism into perspective to obtain better fruits. *Annals of botany*, 122, 1-21.

- BHARGAVA, A. & BANSAL, A. 2021. Fruits and vegetables quality evaluation using computer vision: A review. *Journal of King Saud University - Computer and Information Sciences*, 33, 243-257.
- BIALASIEWICZ, P., PRYMONT-PRZYMINSKA, A., ZWOLINSKA, A., SARNIAK, A., WLODARCZYK, A., KROL, M., GLUSAC, J., NOWAK, P., MARKOWSKI, J. & RUTKOWSKI, K. P. 2014. Addition of strawberries to the usual diet decreases resting chemiluminescence of fasting blood in healthy subjects—possible health-promoting effect of these fruits Consumption. *Journal of the American College of Nutrition*, 33, 274-287.
- BONNEAU, A., BOULANGER, R., LEBRUN, M., MARAVAL, I., VALETTE, J., GUICHARD, É. & GUNATA, Z. 2018. Impact of fruit texture on the release and perception of aroma compounds during in vivo consumption using fresh and processed mango fruits. *Food Chemistry*, 239, 806-815.
- BOURNE, M. C. 1979. Texture of temperate fruits. *Journal of Texture Studies*, 10, 25-44.
- BRASIL, I. M. & SIDDIQUI, M. W. 2018. Postharvest quality of fruits and vegetables: An overview. *Preharvest modulation of postharvest fruit and vegetable quality*, 1-40.
- BRUMMELL, D. A. 2006. Cell wall disassembly in ripening fruit. *Functional Plant Biology*, 33, 103-119.
- CHEN, L. & OPARA, U. L. 2013a. Approaches to analysis and modeling texture in fresh and processed foods—A review. *Journal of food Engineering*, 119, 497-507.
- CHEN, L. & OPARA, U. L. 2013b. Texture measurement approaches in fresh and processed foods—A review. *Food research international*, 51, 823-835.
- CHENG, J. H., SUN, D. W., NAGATA, M. & TALLADA, J. G. 2016. Chapter 13 - Quality Evaluation of Strawberry. In: SUN, D.-W. (ed.) *Computer Vision Technology for Food Quality Evaluation (Second Edition)*. San Diego: Academic Press.
- CHERIAN, S., FIGUEROA, C. R. & NAIR, H. 2014. 'Movers and shakers' in the regulation of fruit ripening: a cross-dissection of climacteric versus non-climacteric fruit. *Journal of Experimental Botany*, 65, 4705-4722.
- CLIFFORD, M. N. 2000. Anthocyanins—nature, occurrence and dietary burden. *Journal of the Science of Food and Agriculture*, 80, 1063-1072.
- COZZOLINO, R., PACE, B., PALUMBO, M., LAURINO, C., PICARIELLO, G., SIANO, F., DE GIULIO, B., PELOSI, S. & CEFOLA, M. 2021. Profiles of Volatile and Phenolic Compounds as Markers of Ripening Stage in Candonga Strawberries. *Foods*, 10, 3102.
- DARROW, G. M. 1966. The strawberry. History, breeding and physiology. *The strawberry. History, breeding and physiology*.
- DAYTON, C. M. 1992. Logistic regression analysis. *Stat*, 474, 574.
- DE JESÚS ORNELAS-PAZ, J., YAHIA, E. M., RAMÍREZ-BUSTAMANTE, N., PÉREZ-MARTÍNEZ, J. D., DEL PILAR ESCALANTE-MINAKATA, M., IBARRA-JUNQUERA, V., ACOSTA-MUÑIZ, C., GUERRERO-PRIETO, V. & OCHOA-REYES, E. 2013. Physical attributes and chemical

- composition of organic strawberry fruit (*Fragaria x ananassa* Duch, Cv. Albion) at six stages of ripening. *Food chemistry*, 138, 372-381.
- DU, X., PLOTTO, A., BALDWIN, E. & ROUSEFF, R. 2011. Evaluation of volatiles from two subtropical strawberry cultivars using GC-olfactometry, GC-MS odor activity values, and sensory analysis. *Journal of agricultural and food chemistry*, 59, 12569-12577.
- ETIENNE, A., GÉNARD, M., LOBIT, P., MBEGUIÉ-A-MBÉGUIÉ, D. & BUGAUD, C. 2013. What controls fleshy fruit acidity? A review of malate and citrate accumulation in fruit cells. *Journal of experimental botany*, 64, 1451-1469.
- FAIT, A., HANHINEVA, K., BELEGGIA, R., DAI, N., ROGACHEV, I., NIKIFOROVA, V. J., FERNIE, A. R. & AHARONI, A. 2008. Reconfiguration of the achene and receptacle metabolic networks during strawberry fruit development. *Plant physiology*, 148, 730-750.
- FAN, Z., HASING, T., JOHNSON, T. S., GARNER, D. M., SCHWIETERMAN, M. L., BARBEY, C. R., COLQUHOUN, T. A., SIMS, C. A., RESENDE, M. F. & WHITAKER, V. M. 2021. Strawberry sweetness and consumer preference are enhanced by specific volatile compounds. *Horticulture research*, 8.
- FAO STATISTICS 2022. Crops and livestock products. 17 February 2022 ed.: Food and Agriculture Organization of the United Nations (FAO).
- FERENCZI, A., SUGIMOTO, N. & BEAUDRY, R. M. 2021. Emission Patterns of Esters and Their Precursors Throughout Ripening and Senescence in 'Redchief Delicious' Apple Fruit and Implications Regarding Biosynthesis and Aroma Perception. *Journal of the American Society for Horticultural Science*, 146, 297-328.
- FOODB. 2010. Showing Compound Hexyl acetate (FDB001267) [Online]. Available: <https://foodb.ca/compounds/FDB001267> [Accessed 20 September 2022].
- FORNEY, C. F., KALT, W. & JORDAN, M. A. 2000. The composition of strawberry aroma is influenced by cultivar, maturity, and storage. *HortScience*, 35, 1022-1026.
- FRANK, D. C., EYRES, G. T., PIYASIRI, U. & DELAHUNTY, C. M. 2012. Effect of food matrix structure and composition on aroma release during oral processing using in vivo monitoring. *Flavour and fragrance journal*, 27, 433-444.
- GANHÃO, R., PINHEIRO, J., TINO, C., FARIA, H. & GIL, M. M. 2019. Characterization of nutritional, physicochemical, and phytochemical composition and antioxidant capacity of three strawberry "*Fragaria x ananassa* Duch." cultivars ("Primoris", "Endurance", and "Portola") from western region of Portugal. *Foods*, 8, 682.
- GARZON, G. & WROLSTAD, R. 2002. Comparison of the stability of pelargonidin-based anthocyanins in strawberry juice and concentrate. *Journal of Food Science*, 67, 1288-1299.

- GASTON, A., OSORIO, S., DENOYES, B. & ROTHAN, C. 2020. Applying the Solanaceae strategies to strawberry crop improvement. *Trends in Plant Science*, 25, 130-140.
- GIAMPIERI, F., TULIPANI, S., ALVAREZ-SUAREZ, J. M., QUILES, J. L., MEZZETTI, B. & BATTINO, M. 2012. The strawberry: Composition, nutritional quality, and impact on human health. *Nutrition*, 28, 9-19.
- GUNNESS, P., KRAVCHUK, O., NOTTINGHAM, S. M., D'ARCY, B. R. & GIDLEY, M. J. 2009. Sensory analysis of individual strawberry fruit and comparison with instrumental analysis. *Postharvest Biology and Technology*, 52, 164-172.
- GUPTA, A., SHARMA, A. & GOEL, A. 2017. Review of regression analysis models. *Int. J. Eng. Res. Technol.*, 6, 58-61.
- HANNUM, S. M. 2004. Potential impact of strawberries on human health: a review of the science. *Critical reviews in food science and nutrition*, 44, 1-17.
- HARKER, F. & SUTHERLAND, P. 1993. Physiological changes associated with fruit ripening and the development of mealy texture during storage of nectarines. *Postharvest Biology and Technology*, 2, 269-277.
- HASTINGS, J., OWEN, G., DEKKER, A., ENNIS, M., KALE, N., MUTHUKRISHNAN, V., TURNER, S., SWAINSTON, N., MENDES, P. & STEINBECK, C. 2016. ChEBI in 2016: Improved services and an expanding collection of metabolites. *Nucleic acids research*, 44, D1214-D1219.
- HUSAINI, A. M. & ABDIN, M. Z. 2008. Development of transgenic strawberry (*Fragaria x ananassa* Duch.) plants tolerant to salt stress. *Plant Science*, 174, 446-455.
- HUSAINI, A. M. & NERI, D. 2016. *Strawberry: growth, development and diseases*, CABI.
- IKEGAYA, A., TOYOIZUMI, T., OHBA, S., NAKAJIMA, T., KAWATA, T., ITO, S. & ARAI, E. 2019. Effects of distribution of sugars and organic acids on the taste of strawberries. *Food Science & Nutrition*, 7, 2419-2426.
- JAIN, S., CHOURSE, S., DUBEY, S., JAIN, S., KAMAKOTY, J. & JAIN, D. 2016. Regression analysis—its formulation and execution in dentistry. *Journal of Applied Dental and Medical Sciences*, 2, 199-206.
- JANURIANTI, N. M. D., UTAMA, I. M. S. & GUNAM, I. B. W. 2021. Colour and quality of strawberry fruit (*Fragaria x ananassa* Duch.) at different levels of maturity. *SEAS (Sustainable Environment Agricultural Science)*, 5, 22-28.
- JAPAN EXTERNAL TRADE ORGANIZATION (JETRO). 2022. *Strawberries* [Online]. Available: <https://www.jetro.go.jp/en/trends/foods/ingredients/strawberries.html> [Accessed 11 May 2022].
- JAPAN GOVERNMENT STATIC (E-STAT) 2022. CENSUS OF AGRICULTURE AND FORESTRY / 2020 CENSUS OF AGRICULTURE AND FORESTRY / 2020 Census of Agriculture and Forestry in Japan Census results report.

- JETTI, R., YANG, E., KURNIANTA, A., FINN, C. & QIAN, M. 2007. Quantification of selected aroma-active compounds in strawberries by headspace solid-phase microextraction gas chromatography and correlation with sensory descriptive analysis. *Journal of food science*, 72, S487-S496.
- KADER, A. A. 1991. Quality and its maintenance in relation to the posharvest physiology of strawberry. *The strawberry into the 21st century.*, 145-152.
- KAFKAS, E., KOŞAR, M., PAYDAŞ, S., KAFKAS, S. & BAŞER, K. 2007. Quality characteristics of strawberry genotypes at different maturation stages. *Food chemistry*, 100, 1229-1236.
- KALLIO, H., HAKALA, M., PELKKIKANGAS, A.-M. & LAPVETELÄINEN, A. 2000. Sugars and acids of strawberry varieties. *European Food Research and Technology*, 212, 81-85.
- KEMENTERIAN PERTANIAN REPUBLIK INDONESIA. 2021. *Pandemi Covid-19 Jadi Momen Mendongkrak Bisnis Hortikultura* [Online]. Available:
<https://www.pertanian.go.id/home/?show=news&act=view&id=4382>
[Accessed 24 December 2021].
- KONICA MINOLTA. 2022. *Chroma Meter CR-400* [Online]. Available:
<https://sensing.konicaminolta.asia/product/chroma-meter-cr-400/>
[Accessed 24 December 2021].
- KRAMER, A. & SZCZESNIAK, A. S. 2012. *Texture Measurement of Foods: Psychophysical Fundamentals; Sensory, Mechanical, and Chemical Procedures, and their interrelationships*, Springer Netherlands.
- LEE, J., KIM, H.-B., NOH, Y.-H., MIN, S. R., LEE, H.-S., JUNG, J., PARK, K.-H., KIM, D.-S., NAM, M. H. & KIM, T. I. 2018. Sugar content and expression of sugar metabolism-related gene in strawberry fruits from various cultivars. *Journal of Plant Biotechnology*, 45, 90-101.
- LELIÈVRE, J. M., LATCHÈ, A., JONES, B., BOUZAYEN, M. & PECH, J. C. 1997. Ethylene and fruit ripening. *Physiologia plantarum*, 101, 727-739.
- LIU, L., JI, M. L., CHEN, M., SUN, M. Y., FU, X. L., LI, L., GAO, D. S. & ZHU, C. Y. 2016. The flavor and nutritional characteristic of four strawberry varieties cultured in soilless system. *Food science & nutrition*, 4, 858-868.
- LOCKHART, J. 2020. Ripe for the Picking: Finding the Gene Behind Variation in Strawberry Fruit Color. American Society of Plant Biologists.
- MAARSE, H. 2017. *Volatile compounds in foods and beverages*, Routledge.
- MÄKINEN, K. K. & SÖDERLLING, E. 1980. A quantitative study of mannitol, sorbitol, xylitol, and xylose in wild berries and commercial fruits. *Journal of Food Science*, 45, 367-371.
- MCLAREN, K. 1976. XIII—The development of the CIE 1976 (L* a* b*) uniform colour space and colour-difference formula. *Journal of the Society of Dyers and Colourists*, 92, 338-341.
- MÉNAGER, I., JOST, M. & AUBERT, C. 2004. Changes in physicochemical characteristics and volatile constituents of strawberry (Cv. Cigaline) during maturation. *Journal of agricultural and food chemistry*, 52, 1248-1254.

- MEYERS, K. J., WATKINS, C. B., PRITTS, M. P. & LIU, R. H. 2003. Antioxidant and antiproliferative activities of strawberries. *Journal of agricultural and food chemistry*, 51, 6887-6892.
- MINNA NO AGRICULTURAL SQUARE. 2011. *A new face is born from the fruit tree kingdom Yamagata! Four seasons strawberry "Summer tiara"* [Online]. National Agricultural Improvement and Extension Support Association. Available: <https://www.jeinou.com/technology/2011/01/25/093500.html> [Accessed 25 May 2022].
- MISZCZAK, A., FORNEY, C. F. & PRANGE, R. K. 1995. Development of aroma volatiles and color during postharvest ripening of Kent's strawberries. *Journal of the American Society for Horticultural Science*, 120, 650-655.
- MODISE, D., WRIGHT, C., WATSON, R., LINFORTH, R. & TAYLOR, A. 2004. Flavour volatile compound analysis in strawberry (*Fragaria x ananassa* Duch.) fruits: comparison of two mass spectrometer techniques for identifying volatile compounds. *South African Journal of Botany*, 70, 306-309.
- MOUNET, F., MOING, A., GARCIA, V., PETIT, J., MAUCOURT, M., DEBORDE, C., BERNILLON, S., LE GALL, G., COLQUHOUN, I. & DEFERNEZ, M. 2009. Gene and metabolite regulatory network analysis of early developing fruit tissues highlights new candidate genes for the control of tomato fruit composition and development. *Plant Physiology*, 149, 1505-1528.
- MOYA-LEÓN, M. A., MATTUS-ARAYA, E. & HERRERA, R. 2019. Molecular events occurring during softening of strawberry fruit. *Frontiers in Plant Science*, 10, 615.
- NATIONAL GOVERNORS' ASSOCIATION 2011. Fostering a new production area for the four seasons of strawberry "Summer Tiara". 全国知事会.
- NEAL, G. 1965. Changes occurring in the cell walls of strawberries during ripening. *Journal of the Science of Food and Agriculture*, 16, 604-611.
- NESTBY, R., LIETEN, F., PIVOT, D., LACROIX, C. R. & TAGLIAVINI, M. 2005. Influence of mineral nutrients on strawberry fruit quality and their accumulation in plant organs: a review. *International journal of fruit science*, 5, 139-156.
- NGO, T., WROLSTAD, R. & ZHAO, Y. 2007. Color quality of Oregon strawberries—impact of genotype, composition, and processing. *Journal of food science*, 72, C025-C032.
- NOGAY, G., ÜRÜN, İ., ATTAR, Ş., KAFKAS, S. & KAFKAS, N. Identification of volatile compounds of Turkish local strawberry genotypes using various extraction techniques by GC/MS. IX International Strawberry Symposium 1309, 2021. 873-878.
- NOHYNEK, L. J., ALAKOMI, H.-L., KÄHKÖNEN, M. P., HEINONEN, M., HELANDER, I. M., OKSMAN-CALDENTEY, K.-M. & PUUPPONEN-PIMIÄ, R. H. 2006. Berry phenolics: antimicrobial properties and mechanisms of action against severe human pathogens. *Nutrition and cancer*, 54, 18-32.

- OECD 2021. International Standards for Fruit and Vegetables: STRAWBERRIES.
- OLSSON, M. E., EKVALL, J., GUSTAVSSON, K.-E., NILSSON, J., PILLAI, D., SJÖHOLM, I., SVENSSON, U., ÅKESSON, B. & NYMAN, M. G. 2004. Antioxidants, low molecular weight carbohydrates, and total antioxidant capacity in strawberries (*Fragaria* × *ananassa*): effects of cultivar, ripening, and storage. *Journal of Agricultural and Food Chemistry*, 52, 2490-2498.
- PADILLA-JIMÉNEZ, S. M., ANGOA-PÉREZ, M. V., MENA-VIOLANTE, H. G., OYOQUE-SALCEDO, G., MONTAÑEZ-SOTO, J. L. & OREGEL-ZAMUDIO, E. 2021. Identification of organic volatile markers associated with aroma during maturation of strawberry fruits. *Molecules*, 26, 504.
- PADILLA-JIMENEZ, S. M., ANGOA-PÉREZ, M. V., MENA-VIOLANTE, H. G., OYOQUE-SALCEDO, G., RENTERIA-ORTEGA, M. & OREGEL-ZAMUDIO, E. 2019. Changes in the aroma of organic blackberries (*Rubus fruticosus*) during ripeness. *Analytical Chemistry Letters*, 9, 64-73.
- PĂDUREȚ, S., OROIAN, M., GUTT, G. & AMARIEI, S. 2017. Evaluation of strawberry texture in close relation with their anisotropy. *International Journal of Food Properties*, 20, 247-259.
- PARK, J.-I., LEE, Y.-K., CHUNG, W.-I., LEE, I.-H., CHOI, J.-H., LEE, W.-M., EZURA, H., LEE, S.-P. & KIM, I.-J. 2006. Modification of sugar composition in strawberry fruit by antisense suppression of an ADP-glucose pyrophosphorylase. *Molecular Breeding*, 17, 269-279.
- PARRA-PALMA, C., ÚBEDA, C., GIL, M., RAMOS, P., CASTRO, R. I. & MORALES-QUINTANA, L. 2019. Comparative study of the volatile organic compounds of four strawberry cultivars and its relation to alcohol acyltransferase enzymatic activity. *Scientia Horticulturae*, 251, 65-72.
- PÉREZ, A. G., SANZ, C., OLÍAS, R., RÍOS, J. J. & OLÍAS, J. M. 1996. Evolution of strawberry alcohol acyltransferase activity during fruit development and storage. *Journal of Agricultural and Food Chemistry*, 44, 3286-3290.
- PEREZ, C., SARGENT, S. & CECILIA DO NN, W. V. 2016. Composition of commercial strawberry cultivars and advanced selection as affected by season, harvest and postharvest storage. *Hortscience*, 51, 1134-1143.
- PRAT, L., ESPINOZA, M. I., AGOSIN, E. & SILVA, H. 2014. Identification of volatile compounds associated with the aroma of white strawberries (*Fragaria chiloensis*). *Journal of the Science of Food and Agriculture*, 94, 752-759.
- PYYSALO, T., HONKANEN, E. & HIRVI, T. 1979. Volatiles of wild strawberries, *Fragaria vesca* L., compared to those of cultivated berries, *Fragaria* times. *ananassa* cv Senga Sengana. *Journal of Agricultural and Food Chemistry*, 27, 19-22.
- RATWOSKY, D. 1983. Nonlinear regression modeling. A unified practical approach. Marcel Dekker, Inc., New York.
- RECHKEMMER, G. 2001. Functional foods-nutrition of the future de-marketing strategy. *Res. Report Special Issue*, 1, 12-15.
- REIN, M. 2005. Copigments reaction and color stability of berry anthocyanins. *Disertation at University of Helsinki*.

- RODAS, C. L., PEREIRA DA SILVA, I., TOLEDO-COELHO, V., GUIMARÃES-FERREIRA, D., DE SOUZA, R. J. & GUEDES DE CARVALHO, J. 2013. Chemical properties and rates of external color of strawberry fruits grown using nitrogen and potassium fertigation. *IDESIA (Chile)*, 31, 53-58.
- RUAN, J., LEE, Y. H., HONG, S. J. & YEOUNG, Y. R. 2013. Sugar and organic acid contents of day-neutral and ever-bearing strawberry cultivars in high-elevation for summer and autumn fruit production in Korea. *Horticulture, Environment, and Biotechnology*, 54, 214-222.
- SAHIN, S. & SUMNU, S. G. 2007. *Physical Properties of Foods*, Springer New York.
- SANZ, C., OLIAS, J. M. & PEREZ, A. Aroma biochemistry of fruits and vegetables. *Proceedings-Phytochemical Society of Europe*, 1996. Oxford University Press Inc., 125-156.
- SANZ, C., PÉREZ, A. & OLÍAS, R. EFFECTS OF TEMPERATURE ON FLAVOR COMPONENTS IN. IV International Strawberry Symposium 567, 2000. 365-368.
- SCHNEIDER, A., HOMMEL, G. & BLETNER, M. 2010. Linear regression analysis: part 14 of a series on evaluation of scientific publications. *Deutsches Ärzteblatt International*, 107, 776.
- SHOJI, Y., MARUYAMA, Y. & ITO, M. 2008. *Development of new strawberry original varieties* [Online]. National Agriculture and Food Research Organization (NARO). Available: <https://www.naro.affrc.go.jp/org/tarc/seika/jyouhou/H20/yasai/H20yasai005.html> [Accessed 25 May 2022].
- SIMPSON, B. K., NOLLET, L. M. L., TOLDRÁ, F., BENJAKUL, S., PALIYATH, G. & HUI, Y. H. 2012. *Food Biochemistry and Food Processing*, Wiley.
- SOKAL, R. R. & ROHLF, F. J. 1973. *Introduction to biostatistics*. W. H. Freeman and Company, San Francisco.
- STOKES, J. R., BOEHM, M. W. & BAIER, S. K. 2013. Oral processing, texture and mouthfeel: From rheology to tribology and beyond. *Current Opinion in Colloid & Interface Science*, 18, 349-359.
- STURM, K., KORON, D. & STAMPAR, F. 2003. The composition of fruit of different strawberry varieties depending on maturity stage. *Food chemistry*, 83, 417-422.
- SUBANDRIYO, B. 2020. BAHAN AJAR: ANALISIS KOLERASI DAN REGRESI. BADAN PUSAT STATISTIK.
- SUN, Q., HARISHCHANDRA, D., JIA, J., ZUO, Q., ZHANG, G., WANG, Q., YAN, J., ZHANG, W. & LI, X. 2021. Role of *Neopestalotiopsis rosae* in causing root rot of strawberry in Beijing, China. *Crop Protection*, 147, 105710.
- TAŞ, A., BERK, S. K., ORMAN, E., GUNDOGDU, M., ERCİŞLİ, S., KARATAS, N., JURIKOVA, T., ADAMKOVA, A., NEDOMOVA, S. & MLCEK, J. 2021. Influence of pre-harvest gibberellic acid and post-harvest 1-methyl

- cyclopropane treatments on phenolic compounds, vitamin C and organic acid contents during the shelf life of strawberry fruits. *Plants*, 10, 121.
- TGSC INFORMATION SYSTEM. 2021a. (Z)-2-hexen-1-ol [Online]. Available: <http://www.thegoodscentcompany.com/data/rw1026642.html> [Accessed 20 September 2022].
- TGSC INFORMATION SYSTEM. 2021b. Ethyl Hexanoate [Online]. Available: <http://www.thegoodscentcompany.com/data/rw1004811.html> [Accessed 20 September 2022].
- TGSC INFORMATION SYSTEM. 2021c. Methyl hexanoate [Online]. Available: <http://www.thegoodscentcompany.com/data/rw1008741.html> [Accessed 20 September 2022].
- TGSC INFORMATION SYSTEM. 2021d. Odor Descriptor Listing for fermented [Online]. Available: <http://www.thegoodscentcompany.com/odor/fermented.html> [Accessed 20 September 2022].
- THE GOVERNMENT OF JAPAN (JAPANGOV). 2018. *Japan's Passion for Food Excellence: Strawberry Paradise Japan* [Online]. Available: https://www.japan.go.jp/tomodachi/2018/spring2018/strawberry_paradise_japan.html#:~:text=With%20159%2C000%20tons%20produced%20annually,regard%20for%20their%20outstanding%20flavor. [Accessed 13 May 2022].
- TOIVONEN, P. M. A. & BRUMMELL, D. A. 2008. Biochemical bases of appearance and texture changes in fresh-cut fruit and vegetables. *Postharvest Biology and Technology*, 48, 1-14.
- TRANMER, M. & ELLIOT, M. 2008. Multiple linear regression. *The Cathie Marsh Centre for Census and Survey Research (CCSR)*, 5, 1-5.
- TULIPANI, S., MARZBAN, G., HERNDL, A., LAIMER, M., MEZZETTI, B. & BATTINO, M. 2011. Influence of environmental and genetic factors on health-related compounds in strawberry. *Food Chemistry*, 124, 906-913.
- U.S. DEPARTMENT OF AGRICULTURE (USDA) 2019. Strawberries, raw.
- UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE (UNECE) 2017. UNECE STANDARD FFV-35: concerning the marketing and commercial quality control of STRAWBERRIES. *In: AGRICULTURAL STANDARDS UNIT, E. C. A. T. D. (ed.). UNITED NATIONS.*
- URÜN, I., ATTAR, S. H., SÖNMEZ, D. A., GÜNDEŞLİ, M. A., ERCİŞLİ, S., KAFKAS, N. E., BANDIĆ, L. M. & DURALIJA, B. 2021. Comparison of polyphenol, sugar, organic acid, volatile compounds, and antioxidant capacity of commercially grown strawberry cultivars in Turkey. *Plants*, 10, 1654.
- VALLARINO, J. 2018. de Abreu e Lima F, Soria C, Tong H, Pott DM, Willmitzer L, Fernie AR, Nikoloski Z, Osorio S (2018) Genetic diversity of strawberry germplasm using metabolomic biomarkers. *Sci Rep*, 8, 14386.
- WEISBERG, S. 2005. *Applied linear regression*, John Wiley & Sons.
- WHETZEL, N. 2019. Hunter L, a, b Versus CIE 1976 L*a*b* Available: <https://support.hunterlab.com/hc/en-us/articles/203993105-Hunter-L-a-b-Versus-CIE-1976-L-a-b-an02-01>.

- WHITAKER, V. M., KNAPP, S. J., HARDIGAN, M. A., EDGER, P. P., SLOVIN, J. P., V BASSIL, N., HYTÖNEN, T., MACKENZIE, K. K., LEE, S. & JUNG, S. 2020. A roadmap for research in octoploid strawberry. *Horticulture research*, 7.
- WINARNO, F. G. 1984. *Kimia Pangan dan gizi*, P.T. Gramedia.
- WISE, K., WEDDING, T. & SELBY-PHAM, J. 2022. Application of automated image colour analyses for the early-prediction of strawberry development and quality. *Scientia Horticulturae*, 304, 111316.
- YU, L., REITMEIER, C. & LOVE, M. 1996. Strawberry texture and pectin content as affected by electron beam irradiation. *Journal of Food Science*, 61, 844-846.