

DAFTAR PUSTAKA

- A'yunin, N. A. Q., Atmadja, T. F. A.-G., Aini, N., & Haryanti, P. (2022). Characterisation of polishing frequency for three varieties of sorghum grain in Java, Indonesia. *International Journal of Food Science*, 2022, 1–10. <https://doi.org/10.1155/2022/2949665>
- Abdel-Hameid, N. F. (2018). New unit for mass-production of *Sitotroga cerealella* (Olivier) eggs for rearing the parasitoid *Trichogramma* used in insect pest control. *Middle East Journal of Agriculture Research*, 7(2), 430–436.
- Abedi, Z., Razmjou, J., Rafiee Dastjerdi, H., & Ebadollahi, A. (2024). Physical and biochemical characteristics of cereal grains affect population growth parameters of *Sitophilus oryzae* (L.) (Coleoptera: Curculionidae). *Journal of Stored Products Research*, 109, 102459. <https://doi.org/10.1016/j.jspr.2024.102459>
- Acur, A., Malinga, G. M., & Nyeko, P. (2024). Evaluation of selected agricultural by-products as potential feeds for rearing edible grasshopper, *Ruspolia differens* (Serville) (Orthoptera: Tettigoniidae). *CABI Agriculture and Bioscience*. <https://doi.org/10.1186/s43170-023-00203-0>
- Agah, A. A. (1961). *The biology of Sitotroga cerealella with special reference to food and the effects of extreme physical conditions*. University of London.
- Agrios, G. N. (2005). *Plant Pathology* (5th ed.). Elsevier. <https://doi.org/10.1016/C2009-0-02037-6>
- Aguila, J. R., Hoshizaki, D. K., & Gibbs, A. G. (2012). Contribution of larval nutrition to adult reproduction in *Drosophila melanogaster*. *Journal of Experimental Biology*. <https://doi.org/10.1242/jeb.078311>
- Akter, T., Jahan, M., & Bhuiyan, M. S. I. (2013). Biology of the Angoumois grain moth, *Sitotroga cerealella* (Oliver) on stored rice grain in laboratory condition. *Journal of the Asiatic Society of Bangladesh, Science*, 39(1), 61–67. <https://doi.org/10.3329/jasbs.v39i1.16034>
- Ananda, G. K. S., Myrans, H., Norton, S. L., Gleadow, R., Furtado, A., & Henry, R. J. (2020). Wild sorghum as a promising resource for crop improvement. *Frontiers in Plant Science*, 11. <https://doi.org/10.3389/fpls.2020.01108>
- Andriyanti, L., Yakop, U. M., & Anugrahwati, D. R. (2020). Yield of Several Wheat Varieties (*Triticum aestivum* L.) In Medium Altitude of East Lombok. *AGROTEKSOS*, 30(3), 197. <https://doi.org/10.29303/agroteksos.v30i3.656>
- Anitha, D. K., Sharma, H. C., & Jagdishwar, D. R. (2010). Incorporation of Lyophilized Leaves and Pods Into Artificial Diet To Assess Antibiosis Component of Resistance To Pod Borer In Pigeonpea. *Journal of Food Legumes*, 23(1), 57–65. <https://oar.icrisat.org/155/1/new9.pdf>

- AOAC. (2015). AOAC SMPR 2015.009: Estimation of Total Phenolic Content Using the Folin-C Assay. *Journal of AOAC INTERNATIONAL*, 98(4), 1109–1110. <https://doi.org/10.5740/jaoac.int.SMPR2015.009>
- Arbogast, R. T., Lecato, G. L., & Byrd, R. Van. (1980). External morphology of some eggs of stored-product moths (Lepidoptera: Pyralidae, Gelechiidae, Tineidae). *International Journal of Insect Morphology and Embryology*, 9(3), 165–177. [https://doi.org/10.1016/0020-7322\(80\)90013-6](https://doi.org/10.1016/0020-7322(80)90013-6)
- Arbogast, R. T., & Mullen, M. A. (1987). Dynamics of *Sitotroga cerealella* (Olivier) (Lepidoptera: Gelechiidae) and *Sitophilus zeamais* (Motschulsky) (Coleoptera: Curculionidae) populations in a small bulk of stored corn. *Population Ecology*, 29(1), 1–15. <https://doi.org/10.1007/BF02515421>
- Ariningsih, E., Saliem, H. P., Nurhasanah, A., Gunawan, E., Agustian, A., & Saptana. (2023). Challenges and alternative solutions in developing sorghum to support food diversification in Indonesia. *IOP Conference Series: Earth and Environmental Science*, 1153(1), 1–11. <https://doi.org/10.1088/1755-1315/1153/1/012032>
- Ashamo, M. O. (2006). Relative susceptibility of some local and elite rice varieties to the rice weevil, *Sitophilus oryzae* L. (Coleoptera: Curculionidae). *Journal of Food, Agriculture & Environment*, 4(1), 249–252.
- Astuti, L. P. (2019). *Strategi pengelolaan hama pascapanen* (UB Press (ed.)). UB Press.
- Astuti, L. P., Mudjiono, G., Rasminah Ch., S., & Rahardjo, B. T. (2013). Susceptibility of milled rice varieties to the lesser grain borer (*Rhyzopertha dominica*, F.). *Journal of Agricultural Science*, 5(2), 145–149. <https://doi.org/10.5539/jas.v5n2p145>
- Astuti, L. P., Mudjiono, G., Rasminah, S., & Rahardjo, B. T. (2013). Influence of temperature and humidity on the population growth of *Rhyzopertha dominica* (F.) (Coleoptera: Bostrichidae) on milled rice. *Journal of Entomology*, 10(2), 86–94. <https://doi.org/10.3923/je.2013.86.94>
- Astuti, L. P., Yahya, S. M., & Hadi, M. S. (2019). Susceptibility of six corn varieties (*Zea mays* L.) to *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae). *International Journal of Plant Biology*, 10(1), 9–13. <https://doi.org/10.4081/pb.2019.7441>
- Atungulu, G. G., Kolb, R. E., Karcher, J., & Mohammadi Shad, Z. (2019). Postharvest technology: rice storage and cooling conservation. In *Rice* (pp. 517–555). Elsevier. <https://doi.org/10.1016/B978-0-12-811508-4.00016-2>
- Awika, J. M., & Rooney, L. W. (2004). Sorghum phytochemicals and their potential impact on human health. *Phytochemistry*, 65(9), 1199–1221. <https://doi.org/10.1016/j.phytochem.2004.04.001>

- Back, E. A., & Cotton, R. T. (1986). Stored-grain insects. In *The Agricultural Research Service* (pp. 1–56). United State Department of Agriculture. <https://www.ars.usda.gov/ARUserFiles/2863/pdfdocuments/StoredGrainInsects.pdf>
- Barragan-Fonseca, K. B., Gort, G., Dicke, M., & van Loon, J. J. A. (2019). Effects of dietary protein and carbohydrate on life-history traits and body protein and fat contents of the black soldier fly <scp> *Hermetia illucens* </scp>. *Physiological Entomology*, *44*(2), 148–159. <https://doi.org/10.1111/phen.12285>
- Basavanjali, Nadagouda, S., Prabhuraj, A., Basavegowda, & Shivaleela. (2020). Biology of Angoumois grain moth, *Sitotroga cerealella* (Olivier) (Gelechiidae: Lepidoptera) on paddy. *Journal of Entomology and Zoology Studies*, *8*(5), 726–729. <http://www.entomoljournal.com>
- Bean, S. R., Wilson, J. D., Moreau, R. A., Galant, A., Awika, J. M., Kaufman, R. C., Adrianos, S. L., & Ioerger, B. P. (2019). Structure and composition of the sorghum grain. In P. V. V. Prasad & I. A. Ciampitti (Eds.), *Agronomy Monographs* (pp. 173–214). ASA and CSSA. <https://doi.org/10.2134/agronmonogr58.c9>
- Bietz, J. A., & Wall, J. S. (1972). Wheat Gluten Subunits: Molecular Weights Determined by Sodium Dodecyl Sulfate-Polyacrylamide Gel Electrophoresis. *American Association of Cereal Chemists*, *49*, 416–430.
- Borzoui, E., & Naseri, B. (2016). Wheat cultivars affecting life history and digestive amylolytic activity of *Sitotroga cerealella* Olivier (Lepidoptera: Gelechiidae). *Bulletin of Entomological Research*, *106*(4), 464–473. <https://doi.org/10.1017/S000748531600016X>
- Borzoui, E., Naseri, B., & Nouri-Ganbalani, G. (2017). Effects of food quality on biology and physiological traits of *Sitotroga cerealella* (Lepidoptera: Gelechiidae). *Journal of Economic Entomology*, *110*(1), 266–273. <https://doi.org/10.1093/jee/tow284>
- Borzoui, E., Naseri, B., & Rahimi Namin, F. (2015). Different diets affecting biology and digestive physiology of the Khapra beetle, *Trogoderma granarium* Everts (Coleoptera: Dermestidae). *Journal of Stored Products Research*, *62*, 1–7. <https://doi.org/10.1016/j.jspr.2015.03.003>
- Bosland, P. W., & Barchenger, D. W. (2024). Introduction to breeding disease-resistant horticultural plants. In *Breeding Disease-Resistant Horticultural Crops* (pp. 1–20). Elsevier. <https://doi.org/10.1016/B978-0-443-15278-8.00001-2>
- Bownes, M., Scott, A., & As, A. S. (1988). Dietary components modulate yolk protein gene transcription in *Drosophila melanogaster*. *Development*, *103*(1), 119–128. <https://doi.org/10.1242/dev.103.1.119>
- Bringhurst, T. A., Harrison, B. M., & Brosnan, J. (2022). Scotch whisky: Raw

- material selection and processing. In *Whisky and Other Spirits* (pp. 137–203). Elsevier. <https://doi.org/10.1016/B978-0-12-822076-4.00018-8>
- Bruce, K. D., Hoxha, S., Carvalho, G. B., Yamada, R., Wang, H.-D., Karayan, P., He, S., Brummel, T., Kapahi, P., & Ja, W. W. (2013). High carbohydrate–low protein consumption maximizes *Drosophila* lifespan. *Experimental Gerontology*, *48*(10), 1129–1135. <https://doi.org/10.1016/j.exger.2013.02.003>
- Burkhardt, C. C., Chiang, H. C., W. Don Fronk, Furman, D. P., Harwood, R. F., Haws, B. A., Johansen, C., Naegele, J. A., Osmun, J. V., Pfadt, R. E., Rogoff, W. M., & Wilbur, D. A. (1971). *Fundamentals of applied entomology* (R. E. Pfadt (ed.); 2nd ed., pp. 1–683). Macmillan Publishing Co., Inc.
- CABI. (2021). *Sitotroga cerealella* (grain moth). *CABI Compendium*. <https://doi.org/https://doi.org/10.1079/cabicompendium.50238>
- Canavoso, L. E., Jouni, Z. E., Karnas, K. J., Pennington, J. E., & Wells, M. A. (2001). Fat Metabolism In Insects. *Annual Review of Nutrition*, *21*(1), 23–46. <https://doi.org/10.1146/annurev.nutr.21.1.23>
- Chaerunnisa, A. N. J. (2020). *Evaluasi Beberapa Genotipe Gandum (Triticum aestivum L.) Di Dataran Rendah*. Universitas Hasanuddin.
- Chen, Y., Ruberson, J. R., & Olson, D. M. (2008). Nitrogen fertilization rate affects feeding, larval performance, and oviposition preference of the beet armyworm, *Spodoptera exigua*, on cotton. *Entomologia Experimentalis et Applicata*, *126*(3), 244–255. <https://doi.org/10.1111/j.1570-7458.2007.00662.x>
- Chhikara, N., Abdulahi, B., Munezero, C., Kaur, R., Singh, G., & Panghal, A. (2019). Exploring the nutritional and phytochemical potential of sorghum in food processing for food security. *Nutrition & Food Science*, *49*(2), 318–332. <https://doi.org/10.1108/NFS-05-2018-0149>
- Chippendale, G. M. (1971). Lipid requirements of the Angoumois grain moth, *Sitotroga cerealella*. *Journal of Insect Physiology*, *17*(11), 2169–2177. [https://doi.org/10.1016/0022-1910\(71\)90176-4](https://doi.org/10.1016/0022-1910(71)90176-4)
- Chowdhury, N., Sardar, B., & Roy, N. (2023). Pest status and management strategies for *Sitotroga cerealella* (Olivier) (Lepidoptera: Gelechiidae). *Journal of Applied Entomologist*, *3*(2), 6–17.
- Clayton, W. D. (1961). (79) Proposal to conserve the generic name sorghum Moench (Gramineae) versus sorghum Adans. (Gramineae). *Taxon*, *10*(8), 242–243. <https://doi.org/10.2307/1216338>
- Cogburn, R. R. (1974). Domestic rice varieties: apparent resistance to rice weevils, lesser grain borers, and Angoumois grain moths. *Environmental Entomology*, *3*(4), 681–685. <https://doi.org/10.1093/ee/3.4.681>
- Cogburn, R. R. (1991). Insect pests of stored rice. In B. S. Luh (Ed.), *Rice* (pp. 269–

- 285). Springer US. https://doi.org/10.1007/978-1-4899-3754-4_7
- Cohen, A. C. (2003). Insect diets. In *Science and Technology* (1st ed., pp. 1–344). CRC Press. <https://doi.org/https://doi.org/10.1201/9780203488690>
- Cônsoli, F. L., & Filho, B. F. A. (1995). Biology of *Sitotroga cerealella* (Oliv.) (Lepidoptera: Gelechiidae) reared on five corn (maize) genotypes. *Journal of Stored Products Research*, 31(2), 139–143. [https://doi.org/10.1016/0022-474X\(94\)00044-T](https://doi.org/10.1016/0022-474X(94)00044-T)
- Cotton, R. T. (1963). *Pests of stored grain and grain products*. Burgess Publishing Company.
- Crombie, A. C. (1943). The development of the Angoumois grain moth (*Sitotroga cerealella* Oliv.). *Nature*, 152(3852), 246–246. <https://doi.org/10.1038/152246a0>
- Cruz, P. L., Baldin, E. L. L., & de Castro, M. de J. P. (2014). Characterization of antibiosis to the silverleaf whitefly *Bemisia tabaci* biotype B (Hemiptera: Aleyrodidae) in cowpea entries. *Journal of Pest Science*, 87(4), 639–645. <https://doi.org/10.1007/s10340-014-0612-4>
- Davis, G. R. F. (1969). Protein Nutrition of « *Tenebrio Molitor* » L. X. Improvement of the Nutritional Value of Lactalbumin by Supplementation with Amino Acids. *Archives Internationales de Physiologie et de Biochimie*, 77(4), 741–748. <https://doi.org/10.3109/13813456909059786>
- de Sousa, T., Ribeiro, M., Sabeça, C., & Igrejas, G. (2021). The 10,000-Year Success Story of Wheat! *Foods*, 10(9), 2124. <https://doi.org/10.3390/foods10092124>
- Delcour, J. A., & Hosney, R. C. (2010). *Principles of cereal science and technology 3rd edition* (3rd ed.). AACC International. <https://issuu.com/scisoc/docs/27632>
- Demissie, G., Swaminathan, R., Ameta, O. P., Jain, H. K., & Saharan, V. (2015). Biochemical basis of resistance in different varieties of maize for their relative susceptibility to *Sitotroga cerealella* (Olivier) (Lepidoptera: Gelechiidae). *Journal of Stored Products and Postharvest Research*, 6(1), 1–12. <https://doi.org/10.5897/JSPPR2013.0167>
- Desmedt, W., Mangelinckx, S., Kyndt, T., & Vanholme, B. (2020). A Phytochemical Perspective on Plant Defense Against Nematodes. *Frontiers in Plant Science*, 11. <https://doi.org/10.3389/fpls.2020.602079>
- Ducksbury, C., & Stefoska-Needham, A. (2022). A cross-sectional audit of sorghum in selected cereal food products in Australian supermarkets. *Nutrients*, 14(1821), 1–11. <https://doi.org/10.3390/nu14091821>
- Dwimargiyanti, E. (2017). *Substitusi tepung sorgum (Sorghum bicolor L.) dalam*

pembuatan mie kering dengan penambahan slurry buah naga merah (Hylocereus polyrhizus) yang mengandung antioksidan [Atma Jaya Yogyakarta University]. <https://e-journal.uajy.ac.id/12931/>

Dykes, L., & Rooney, L. W. (2006). Sorghum and millet phenols and antioxidants. *Journal of Cereal Science*, 44(3), 236–251.

<https://doi.org/10.1016/j.jcs.2006.06.007>

Dymchenko, A., Geršl, M., & Gregor, T. (2023). Trends in bread waste utilisation. *Trends in Food Science & Technology*, 132, 93–102.

<https://doi.org/10.1016/j.tifs.2023.01.004>

Earp, C. F., McDonough, C. M., & Rooney, L. W. (2004). Microscopy of pericarp development in the caryopsis of *Sorghum bicolor* (L.) Moench. *Journal of Cereal Science*, 39(1), 21–27. [https://doi.org/10.1016/S0733-5210\(03\)00060-8](https://doi.org/10.1016/S0733-5210(03)00060-8)

Ebadi, A., Naseri, B., Besheli, B. A., Razmjou, J., Ebadollahi, A., Pourabad, R. F., Elahi, M., & Afshari, F. (2025). Resistance of some lentil cultivars against the cowpea beetle, *Callosobruchus maculatus* (F.) (Coleoptera: Chrysomelidae). *Journal of Stored Products Research*, 111, 102546.

<https://doi.org/10.1016/j.jspr.2025.102546>

Emanuelli, T., Milbradt, B. G., Kolinski Callegaro, M. da G., & Augusti, P. R. (2014). Wheat Bran and Cadmium in Human Health. In *Wheat and Rice in Disease Prevention and Health* (pp. 241–260). Elsevier. <https://doi.org/10.1016/B978-0-12-401716-0.00019-2>

Fadlemula, A. (1983). *Resistance of sorghum varieties to the rice weevil Sitophilus oryzae (L.) And to the Angoumois grain moth Sitotroga cerealella (Olivier)*. Kansas State University.

Fouad, H. A., Faroni, L. R. D., Vilela, E. F., & de Lima, E. R. (2013). Flight responses of *Sitotroga cerealella* (Lepidoptera: Gelechiidae) to corn kernel volatiles in a wind tunnel. *Arthropod-Plant Interactions*, 7(6), 651–658.

<https://doi.org/10.1007/s11829-013-9275-y>

Fricke, C., Bretman, A., & Chapman, T. (2010). Female nutritional status determines the magnitude and sign of responses to a male ejaculate signal in *Drosophila melanogaster*. *Journal of Evolutionary Biology*, 23(1), 157–165.

<https://doi.org/10.1111/j.1420-9101.2009.01882.x>

Gabriel, A. H., & Hundie, B. (2006). *Give to AgEcon Search Farmers' post-harvest grain management choices under liquidity constraints and impending risks: implications for achieving food security objectives in Ethiopia*. 1–17.

<https://doi.org/10.22004/ag.econ.25716>

Gallo, L. R. dos R., Reis, C. E. G., Mendonça, M. A., da Silva, V. S. N., Pacheco, M. T. B., & Botelho, R. B. A. (2021). Impact of gluten-free sorghum bread genotypes on glycemic and antioxidant responses in healthy adults. *Foods*, 10(10), 1–12. <https://doi.org/10.3390/foods10102256>

- Gao, L.-L., Horbury, R., Nair, R. M., Singh, K. B., & Edwards, O. R. (2007). Characterization of resistance to multiple aphid species (Hemiptera: Aphididae) in *Medicago truncatula*. *Bulletin of Entomological Research*, 97(1), 41–48. <https://doi.org/10.1017/S0007485307004786>
- Georgescu, B., Struți, D., Păpuș, T., Cighi, V., & Boaru, A. (2021). Effect of the energy content of diets on the development and quality of the fat reserves of larvae and reproduction of adults of the black soldier fly, *Hermetia illucens* (Diptera: Stratiomyidae). *European Journal of Entomology*, 118, 297–306. <https://doi.org/10.14411/eje.2021.030>
- Ghodjani, Z., Shakarami, J., Mardani-Talaei, M., & Eduardo Serrão, J. (2023). Effect of different wheat cultivars on two sex life table parameters of *Sitotroga cerealella* (Lepidoptera: Gelechiidae). *Journal of Stored Products Research*, 101, 102097. <https://doi.org/10.1016/j.jspr.2023.102097>
- Gous, F. (1989). *Tannins and Phenols In Black Sorghum* [Texas A&M University]. <https://hdl.handle.net/1969.1/DISSSERTATIONS-1108982>
- Griebel, S., Webb, M. M., Campanella, O. H., Craig, B. A., Weil, C. F., & Tuinstra, M. R. (2019). The alkali spreading phenotype in *Sorghum bicolor* and its relationship to starch gelatinization. *Journal of Cereal Science*, 86, 41–47. <https://doi.org/10.1016/j.jcs.2019.01.002>
- Grundas, S. T. (2003). WHEAT | Grain Structure of Wheat and Wheat-based Products. In *Encyclopedia of Food Sciences and Nutrition* (pp. 6137–6146). Elsevier. <https://doi.org/10.1016/B0-12-227055-X/01286-4>
- Gu, L., Kelm, M., Hammerstone, J. F., Beecher, G., Cunningham, D., Vannozzi, S., & Prior, R. L. (2002). Fractionation of Polymeric Procyanidins from Lowbush Blueberry and Quantification of Procyanidins in Selected Foods with an Optimized Normal-Phase HPLC–MS Fluorescent Detection Method. *Journal of Agricultural and Food Chemistry*, 50(17), 4852–4860. <https://doi.org/10.1021/jf020214v>
- Gutiérrez, Y., Fresch, M., Ott, D., Brockmeyer, J., & Scherber, C. (2020). Diet composition and social environment determine food consumption, phenotype and fecundity in an omnivorous insect. *Royal Society Open Science*, 7(4), 200100. <https://doi.org/10.1098/rsos.200100>
- Hagstrum, D. W., Phillips, T. W., & Cuperus, G. (2012). Stored product protection. In *Stored Product Protection* (pp. 1–345). K-State Research and Extension. <https://bookstore.ksre.ksu.edu/pubs/s156.pdf>
- Hahn, D. A. (2005). Larval nutrition affects lipid storage and growth, but not protein or carbohydrate storage in newly eclosed adults of the grasshopper *Schistocerca americana*. *Journal of Insect Physiology*, 51(11), 1210–1219. <https://doi.org/10.1016/j.jinsphys.2005.06.011>
- Hahn, D. H. (1984). *Phenols of Sorghum and Maize : The Effect of Genotype and*

- Alkali Processing* [Texas A&M University].
<https://hdl.handle.net/1969.1/DISSERTATIONS-589346>
- Hahn, D. H., Faubion, J. M., & Rooney, L. W. (1983). Sorghum Phenolic Acids, Their High Performance Liquid Chromatography Separation and Their Relation to Fungal Resistance. *Cereal Chemistry*, 1983, Vol. 60, No. 4, 255-259 Ref. 17, 60(4), 255–259.
<https://www.cabidigitallibrary.org/doi/full/10.5555/19831625608>
- Hamdy, H. M., Asmaa, G. T. A.-E. S., Doaa, S. M., & Medhat, M. S. (2020). Egg production and life cycle of *Sitotroga cerealella* (Lepidoptera : Gelechiidae) reared on three cereals. *Egyptian Journal of Plant Protection Research Institute*, 3(1), 58–72. <https://search.emarefa.net/detail/BIM-1252899>
- Hamzei, M., Golizadeh, A., Hassanpour, M., Fathi, S. A. A., & Abedi, Z. (2023). Interaction between life history parameters of *Callosobruchus maculatus* (F.) (Coleoptera: Chrysomelidae) with physical and biochemical properties of legumes species. *Journal of Stored Products Research*, 102, 102111. <https://doi.org/10.1016/j.jspr.2023.102111>
- Hao, H., Li, Z., Leng, C., Lu, C., Luo, H., Liu, Y., Wu, X., Liu, Z., Shang, L., & Jing, H.-C. (2021). Sorghum breeding in the genomic era: opportunities and challenges. *Theoretical and Applied Genetics*, 134(7), 1899–1924. <https://doi.org/10.1007/s00122-021-03789-z>
- Hariprasanna, K., & Patil, J. V. (2015). Sorghum: origin, classification, biology and improvement. In R. Madhusudhana, P. Rajendrakumar, & J. V. Patil (Eds.), *Sorghum Molecular Breeding* (pp. 3–20). Springer India. https://doi.org/10.1007/978-81-322-2422-8_1
- Harlan, J. R., & Zohary, D. (1966). Distribution of Wild Wheats and Barley. *Science*, 153(3740), 1074–1080. <https://doi.org/10.1126/science.153.3740.1074>
- Harland, J. (2015). Authorised EU health claims for wheat bran fibre. In *Foods, Nutrients and Food Ingredients with Authorised EU Health Claims: Volume 2* (pp. 109–127). Elsevier. <https://doi.org/10.1016/B978-1-78242-382-9.00006-2>
- Heinrichs, E. A., Medrano, F. G., & Rapusas, H. R. (1985). *Genetic evaluation for insect resistance in rice* (pp. 1–351). International Rice Research Institute.
- Hemery, Y., Rouau, X., Lullien-Pellerin, V., Barron, C., & Abecassis, J. (2007). Dry processes to develop wheat fractions and products with enhanced nutritional quality. *Journal of Cereal Science*, 46(3), 327–347. <https://doi.org/10.1016/j.jcs.2007.09.008>
- Hendrival, H., Putra, R. L., & Aryani, D. S. (2019). Susceptibility of sorghum cultivars to *Sitophilus oryzae* L. (Coleoptera: Curculionidae) during storage. *Planta Tropika: Journal of Agro Science*, 7(2), 110–116. <https://doi.org/10.18196/pt.2019.100.110-116>

- Hermiati, E., Sondari, D., & Sunarti, T. C. (2023). Extraction and classification of starch from different sources: Structure, properties, and characterization. In *Handbook of Natural Polymers, Volume 1* (pp. 19–60). Elsevier. <https://doi.org/10.1016/B978-0-323-99853-6.00012-7>
- Hill, D. S. (2003). *Pests of stored foodstuffs and their control* (1st ed., pp. 1–453). Kluwer Academic Publishers. <https://doi.org/10.1007/0-306-48131-6>
- Hodges, R. J., Buzby, J. C., & Bennett, B. (2011). Postharvest losses and waste in developed and less developed countries: opportunities to improve resource use. *The Journal of Agricultural Science*, 149(S1), 37–45. <https://doi.org/10.1017/S0021859610000936>
- Hu, X.-S., Liu, Y.-J., Wang, Y.-H., Wang, Z., Yu, X., Wang, B., Zhang, G.-S., Liu, X.-F., Hu, Z.-Q., Zhao, H.-Y., & Liu, T.-X. (2016). Resistance of Wheat Accessions to the English Grain Aphid *Sitobion avenae*. *PLOS ONE*, 11(6), e0156158. <https://doi.org/10.1371/journal.pone.0156158>
- Huang, Y., & Chi, H. (2012). Age-stage, two-sex life tables of *Bactrocera cucurbitae* (Coquillett) (Diptera: Tephritidae) with a discussion on the problem of applying female age-specific life tables to insect populations. *Insect Science*, 19(2), 263–273. <https://doi.org/10.1111/j.1744-7917.2011.01424.x>
- Imura, O., & Sinha, R. N. (1984). Effect of infestation by *Sitotroga cerealella* (Lepidoptera: Gelechiidae) and *Sitophilus oryzae* (Coleoptera: Curculionidae) on the deterioration of bagged wheat. *Environmental Entomology*, 13(6), 1471–1477. <https://doi.org/10.1093/ee/13.6.1471>
- Kang, K., Cai, Y., Yue, L., & Zhang, W. (2022). Effects of Different Nutritional Conditions on the Growth and Reproduction of *Nilaparvata lugens* (Stål). *Frontiers in Physiology*, 12. <https://doi.org/10.3389/fphys.2021.794721>
- Karimi-Pormehr, M. S., Borzoui, E., Naseri, B., Dastjerdi, H. R., & Mansouri, S. M. (2018). Two-sex life table analysis and digestive physiology of *Sitotroga cerealella* (Olivier) (Lepidoptera: Gelechiidae) on different barley cultivars. *Journal of Stored Products Research*, 75, 64–71. <https://doi.org/10.1016/j.jspr.2017.10.005>
- Kent-Jones, D. W., & Amos, A. J. (1967). *Modern Cereal Chemistry* (6th ed.). London, Food Trade P.
- Khalifa, M., & Eltahir, E. A. B. (2023). Assessment of global sorghum production, tolerance, and climate risk. *Frontiers in Sustainable Food Systems*, 7, 1–20. <https://doi.org/10.3389/fsufs.2023.1184373>
- Khoddami, A., Messina, V., Vadabali Venkata, K., Farahnaky, A., Blanchard, C. L., & Roberts, T. H. (2023). Sorghum in foods: functionality and potential in innovative products. *Critical Reviews in Food Science and Nutrition*, 63(9), 1170–1186. <https://doi.org/10.1080/10408398.2021.1960793>

- Kim, J. C., Simmins, P. H., Mullan, B. P., & Pluske, J. R. (2005). The digestible energy value of wheat for pigs, with special reference to the post-weaned animal [Review]. *Animal Feed Science and Technology*, *122*(3–4), 257–287. <https://doi.org/10.1016/j.anifeedsci.2005.02.022>
- Kogan, M., & Ortman, E. F. (1978). Antixenosis-A New Term Proposed to Define Painter's "Nonpreference" Modality of Resistance. *Bulletin of the Entomological Society of America*, *24*(2), 175–176. <https://doi.org/10.1093/besa/24.2.175>
- Kortbeek, R. W. J., van der Gragt, M., & Bleeker, P. M. (2019). Endogenous plant metabolites against insects. *European Journal of Plant Pathology*, *154*(1), 67–90. <https://doi.org/10.1007/s10658-018-1540-6>
- Krueger, C. G., Vestling, M. M., & Reed, J. D. (2003). Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry of Heteropolyflavan-3-ols and Glucosylated Heteropolyflavans in Sorghum [*Sorghum bicolor* (L.) Moench]. *Journal of Agricultural and Food Chemistry*, *51*(3), 538–543. <https://doi.org/10.1021/jf020746b>
- Kumar, R. (2017). Insect pests of stored grain: biology, behavior, and management strategies. In M. W. Siddiqui (Ed.), *Postharvest biology and technology book series* (pp. 1–387). Apple Academic Press, Inc.
- Le Gall, M., & Behmer, S. T. (2014). Effects of Protein and Carbohydrate on an Insect Herbivore: The Vista from a Fitness Landscape. *Integrative and Comparative Biology*, *54*(5), 942–954. <https://doi.org/10.1093/icb/ucu102>
- LeCato, G. L., & Flaherty, B. R. (1974). Description of eggs of selected species of stored-product insects (Coleoptera and Lepidoptera). *Journal of the Kansas Entomological Society*, *47*(3), 308–317. <https://www.jstor.org/stable/25082655>
- Lee, K. P. (2015). Dietary protein:carbohydrate balance is a critical modulator of lifespan and reproduction in *Drosophila melanogaster*: A test using a chemically defined diet. *Journal of Insect Physiology*, *75*, 12–19. <https://doi.org/10.1016/j.jinsphys.2015.02.007>
- Leyria, J., Fruttero, L. L., Paglione, P. A., & Canavoso, L. E. (2025). How Insects Balance Reproductive Output and Immune Investment. *Insects*, *16*(3), 311. <https://doi.org/10.3390/insects16030311>
- Lim, T. K. (2012). *Edible medicinal and non-medicinal plants* (1st ed., Vol. 1). Springer Dordrecht. <https://doi.org/10.1007/978-90-481-8661-7>
- LIU, D., ZHANG, X., JIANG, W., LI, M., WU, X., GAO, D., BIE, T., & LU, C. (2022). Influence of high-molecular-weight glutenin subunit deletions at the Glu-A1 and Glu-D1 loci on protein body development, protein components and dough properties of wheat (*Triticum aestivum* L.). *Journal of Integrative Agriculture*, *21*(7), 1867–1876. [https://doi.org/10.1016/S2095-3119\(21\)63605-5](https://doi.org/10.1016/S2095-3119(21)63605-5)

- Ma, M., Chang, M.-M., Lu, Y., Lei, C.-L., & Yang, F.-L. (2017). Ultrastructure of sensilla of antennae and ovipositor of *Sitotroga cerealella* (Lepidoptera: Gelechiidae), and location of female sex pheromone gland. *Scientific Reports*, 7(1), 40637. <https://doi.org/10.1038/srep40637>
- Machekano, H., Mvumi, B. M., & Nyamukondiwa, C. (2018). *Sitotroga cerealella* (Olivier) resilience to extreme temperature and desiccation may explain its increasing pest status in changing climates. *12th International Working Conference on Stored Product Protection (IWCSPP)*, 165–171.
- Macías-Estrada, P., Orozco-González, F., Castellanos-Pérez, G., Castillo-Rosales, A., Ortega-Ortega, A., Malvar, R. A., Padilla-Chacón, D., & Jiménez-Galindo, J. C. (2023). *Sitotroga cerealella*-resistant mexican maize races (*Zea mays* L.), new sources of resistance for commercial maize breeding. *Cereal Research Communications*, 51(2), 425–436. <https://doi.org/10.1007/s42976-022-00302-0>
- Majd-Marani, S., Naseri, B., Hassanpour, M., Razmjou, J., & Jalaeian, M. (2023). Life history and life table parameters of the rice weevil, *Sitophilus oryzae* L. (Coleoptera: Curculionidae) fed on 10 rice cultivars and lines in Iran. *Journal of Stored Products Research*, 102, 102118. <https://doi.org/10.1016/j.jspr.2023.102118>
- Mangan, R. L. (2003). Adult Diet and Male - Female Contact Effects on Female Reproductive Potential in Mexican Fruit Fly (“*Anastrepha ludens*“ Loew) (Diptera Tephritidae). *Journal of Economic Entomology*, 96(2), 341–347. <https://doi.org/10.1603/0022-0493-96.2.341>
- Manickavelu, A., Hattori, T., Yamaoka, S., Yoshimura, K., Kondou, Y., Onogi, A., Matsui, M., Iwata, H., & Ban, T. (2017). Genetic Nature of Elemental Contents in Wheat Grains and Its Genomic Prediction: Toward the Effective Use of Wheat Landraces from Afghanistan. *PLOS ONE*, 12(1), e0169416. <https://doi.org/10.1371/journal.pone.0169416>
- Maramorosch, K., & Loebenstein, G. (2009). Plant Disease Resistance: Natural, Non-Host Innate or Inducible. In *Encyclopedia of Microbiology* (3rd ed., pp. 589–596). Elsevier. <https://doi.org/10.1016/B978-012373944-5.00341-2>
- Mario, M. B. (2017). *Preferensi dan biologi Oryzaephilus surinamensis (L.) (Coleoptera: Silvanidae) pada beras putih, merah dan hitam dalam bentuk butiran utuh dan tepung*. Brawijaya University.
- Markakis, P. (1982). *Anthocyanins As Food Colors* (P. Markakis (ed.)). Academic Press. <https://doi.org/10.1016/B978-0-12-472550-8.X5001-X>
- Martin, J., Deceased, W. L., Stamp, D., & Waldren, R. (2005). *Principles of Field Crop Production 4th Edition* (4th ed.). Pearson. <https://a.co/d/dTBAZ4M>
- McDonough, C. M., Rooney, L. W., & Earp, C. F. (1986). Structural Characteristics of Eleusine Corocana (Finger Millet) Using Scanning Electron and

- Fluorescence Microscopy. *Food Structure*, 5(2), 247–256.
<https://digitalcommons.usu.edu/foodmicrostructure/vol5/iss2/9>
- Min, K.-J., & Tatar, M. (2006). Restriction of amino acids extends lifespan in *Drosophila melanogaster*. *Mechanisms of Ageing and Development*, 127(7), 643–646. <https://doi.org/10.1016/j.mad.2006.02.005>
- Muimba-Kankolongo, A. (2018). Crops Diseases and Pests. In *Food Crop Production by Smallholder Farmers in Southern Africa* (pp. 23–39). Elsevier. <https://doi.org/10.1016/B978-0-12-814383-4.00004-9>
- Murevanhema, Y. Y., & Jideani, V. A. (2013). Potential of Bambara Groundnut (*Vigna subterranea* (L.) Verdc) Milk as a Probiotic Beverage—A Review. *Critical Reviews in Food Science and Nutrition*, 53(9), 954–967. <https://doi.org/10.1080/10408398.2011.574803>
- Naseri, B., & Majd-Marani, S. (2022). Different cereal grains affect demographic traits and digestive enzyme activity of *Rhyzopertha dominica* (F.) (Coleoptera: Bostrichidae). *Journal of Stored Products Research*, 95, 101898. <https://doi.org/10.1016/j.jspr.2021.101898>
- Nash, W. J., & Chapman, T. (2014). Effect of Dietary Components on Larval Life History Characteristics in the Medfly (*Ceratitis capitata*: Diptera, Tephritidae). *PLoS ONE*, 9(1), e86029. <https://doi.org/10.1371/journal.pone.0086029>
- Nathan, S. S., Kalaivani, K., Mankin, R. W., & Murugan, K. (2006). Effects of Millet, Wheat, Rice, and Sorghum Diets on Development of *Corcyra cephalonica* (Stainton) (Lepidoptera: Galleriidae) and Its Suitability as a Host for *Trichogramma chilonis* (Ishii) (Hymenoptera: Trichogrammatidae). *Environmental Entomology*, 35(3), 784–788. <https://doi.org/10.1603/0046-225X-35.3.784>
- Nation, J. L. (2008). *Insect physiology and biochemistry* (2nd ed., pp. 1–560). CRC Press. [https://doi.org/https://doi.org/10.1201/9781420061789](https://doi.org/10.1201/9781420061789)
- Nessma Mohi El Deen Abd-El Rahman. (2025). *Studies on the Angoumois Grain Moth, Sitotroga cerealella Oliv. as the Main Insect Pest Infesting Stored Cereal Grain and Their Control* [Sohag University]. https://www.researchgate.net/profile/Ahmed-Salman-12/publication/389294546_rsalt_almnh_d_nsmt_2025_dktwrah/links/67bd8519461fb56424e8b878/rsalt-almnh-d-nsmt-2025-dktwrah.pdf?origin=scientificContributions
- Nip, W. K., & Burns, E. E. (1969). Pigment Characterization in Grain Sorghum. I. Red Varieties. *Cereal Chemistry*, 46, 491–495.
- Nip, W. K., & Burns, E. E. (1971). Pigment Characterization in Grain Sorghum. II. White Varieties. *Cereal Chemistry*, 48, 75–80.
- Nur, R. F. (2023). *Wheat Crop Yield (Triticum aestivum L.) Dewata 162 Variety at*

Different Dosages of Chicken Manure and Plant Spacing. Universitas Tidar.

- Oliveira, M. N. de, Freitas, A. L. P., Carvalho, A. F. U., Sampaio, T. M. T., Farias, D. F., Alves Teixeira, D. I., Gouveia, S. T., Pereira, J. G., & Sena, M. M. de C. C. de. (2009). Nutritive and non-nutritive attributes of washed-up seaweeds from the coast of Ceará, Brazil. *Food Chemistry*, *115*(1), 254–259. <https://doi.org/10.1016/j.foodchem.2008.12.004>
- Painter, R. H. (1951). *Insect Resistance in Crop Plants* (Vol. 72). Soil Science. <https://journals.lww.com/soilsci/toc/1951/12000>
- Panda, N., & Khush, G. A. (1995). *Host Plant Resistance to Insects*. CABI Digital Library.
- Panizzi, A. R., & Parra, J. R. P. (2012). *Insect bioecology and nutrition for integrated pest management* (pp. 1–705). CRC Press, Taylor & Francis Group. <https://doi.org/https://doi.org/10.1201/b11713>
- Perez-Mendoza, J., Weaver, D. K., & Throne, J. E. (2004). Development and survivorship of immature Angoumois grain moth (Lepidoptera: Gelechiidae) on stored corn. *Environmental Entomology*, *33*(4), 807–814. <https://doi.org/10.1603/0046-225X-33.4.807>
- Pezzali, J. G., Suprabha-Raj, A., Siliveru, K., & Aldrich, C. G. (2020). Characterization of white and red sorghum flour and their potential use for production of extrudate crisps. *PLOS ONE*, *15*(6), 1–13. <https://doi.org/10.1371/journal.pone.0234940>
- Pimentel. (2002). *Encyclopedia of Pest Management* (Pimentel (ed.); 1st ed.). Marcel Dekker. <https://stacks.cdc.gov/view/cdc/248016>
- Piper, M. D. W., Partridge, L., Raubenheimer, D., & Simpson, S. J. (2011). Dietary Restriction and Aging: A Unifying Perspective. *Cell Metabolism*, *14*(2), 154–160. <https://doi.org/10.1016/j.cmet.2011.06.013>
- Plessis, J. du. (2008). *Sorghum production*. ARC-Grain Crops Institute. https://www.academia.edu/34250277/Sorghum_production_Jéan_du_Plessis
- Price, M. L., & Butler, L. G. (1977). Rapid visual estimation and spectrophotometric determination of tannin content of sorghum grain. *Journal of Agricultural and Food Chemistry*, *25*(6), 1268–1273. <https://doi.org/10.1021/jf60214a034>
- Proietti, I., Frazzoli, C., & Mantovani, A. (2015). Exploiting nutritional value of staple foods in the world's semi-arid areas: risks, benefits, challenges, and opportunities of sorghum. *Healthcare*, *3*(2), 172–193. <https://doi.org/10.3390/healthcare3020172>
- Rachmawati, R., Buchori, D., Hidayat, P., Hem, S., & Fahmi, M. R. (2015). Perkembangan dan Kandungan Nutrisi Larva *Hermetia illucens* (Linnaeus) (Diptera: Stratiomyidae) pada Bungkil Kelapa Sawit. *Jurnal Entomologi*

Indonesia, 7(1), 28. <https://doi.org/10.5994/jei.7.1.28>

- Rahimi, Y., Bihamta, M. R., Taleei, A., Alipour, H., & Ingvarsson, P. K. (2019). Genome-wide association study of agronomic traits in bread wheat reveals novel putative alleles for future breeding programs. *BMC Plant Biology*, 19(1), 541. <https://doi.org/10.1186/s12870-019-2165-4>
- Ratnavathi, C. V. (2019). Grain Structure, Quality, and Nutrition. In *Breeding Sorghum for Diverse End Uses* (pp. 193–207). Elsevier. <https://doi.org/10.1016/B978-0-08-101879-8.00012-7>
- Rees, D. (2004). *Insects of stored products* (V. Rangsi, J. Green, D. Rees, Y. Ren, D. McClenaghan, V. Rangsi, & J. Kelly (eds.); 1st ed.). CSIRO Publishing.
- Rees, D. (2007). Insects of stored grain: a pocket reference. In J. Kelly (Ed.), *National Library of Australia Cataloguing-in-Publication* (2nd ed., pp. 1–73). CSIRO Publishing.
- Robinson, W. H. (2005). *Handbook of urban insects and arachnids* (pp. 1–456). Cambridge University Press. <http://www.cambridge.org/9780521812535>
- Rooney, L. W., Rooney, W. L., & Saldivar, S. O. S. (2016). Sorghum. In *Reference Module in Food Science* (pp. 1–6). Elsevier Inc. <https://doi.org/10.1016/B978-0-08-100596-5.02986-3>
- Rosa-Sibakov, N., Poutanen, K., & Micard, V. (2015). How does wheat grain, bran and aleurone structure impact their nutritional and technological properties? *Trends in Food Science & Technology*, 41(2), 118–134. <https://doi.org/10.1016/j.tifs.2014.10.003>
- Roy, C., Kumar, S., Ranjan, R. D., Kumhar, S. R., & Govindan, V. (2022). Genomic approaches for improving grain zinc and iron content in wheat. *Frontiers in Genetics*, 13. <https://doi.org/10.3389/fgene.2022.1045955>
- Salim, M., Ullah, I., Saljoqi, A. U. R., Gökçe, A., Ahmad, S., Almutairi, M. H., Sayed, A. A., Aleya, L., Abdel-Daim, M. M., & Shah, M. (2023). Life table study of *Sitotroga cerealella* on different cereals and its implications on the performance of the egg parasitoid (*Trichogramma chilonis*) under laboratory conditions. *Scientific Reports*, 13(1), 1–13. <https://doi.org/10.1038/s41598-023-37852-0>
- Sallam, M. N. (2013). *Insect damage: damage on post-harvest* (D. Mejia & B. Lewis (eds.)). International Centre of Insect Physiology and Ecology (ICIPE).
- Sauer, D. B. (1992). *Storage of cereal grains and their products* (D. B. Sauer (ed.); 4th ed.). American Association of Cereal Chemists, Inc.
- Schultzhaus, J. N., & Carney, G. E. (2017). Dietary protein content alters both male and female contributions to *Drosophila melanogaster* female post-mating response traits. *Journal of Insect Physiology*, 99, 101–106.

<https://doi.org/10.1016/j.jinsphys.2017.04.004>

- Schultzhaus, J. N., Nixon, J. J., Duran, J. A., & Carney, G. E. (2017). Diet alters *Drosophila melanogaster* mate preference and attractiveness. *Animal Behaviour*, *123*, 317–327. <https://doi.org/10.1016/j.anbehav.2016.11.012>
- Shahjahan, M. (1975). Some aspects of the ecology and control of *Sitotroga cerealella* Oliv. (Lepidoptera: Gelechiidae) in Bangladesh. *Journal of Stored Products Research*, *11*(3–4), 239–242. [https://doi.org/10.1016/0022-474X\(75\)90037-5](https://doi.org/10.1016/0022-474X(75)90037-5)
- Shazali, M. E. H., & Smith, R. H. (1985). Life history studies of internally feeding pests of stored sorghum: *Sitotroga cerealella* (Ol.) and *Sitophilus oryzae* (L.). *Journal of Stored Products Research*, *21*(4), 171–178. [https://doi.org/10.1016/0022-474X\(85\)90012-8](https://doi.org/10.1016/0022-474X(85)90012-8)
- Shewry, P. R. (2009). Wheat. *Journal of Experimental Botany*, *60*(6), 1537–1553. <https://doi.org/10.1093/jxb/erp058>
- Shi, W., Ding, S.-Y., & Yuan, J. S. (2011). Comparison of Insect Gut Cellulase and Xylanase Activity Across Different Insect Species with Distinct Food Sources. *BioEnergy Research*, *4*(1), 1–10. <https://doi.org/10.1007/s12155-010-9096-0>
- Simpson, S. J., & Raubenheimer, D. (2009). Macronutrient balance and lifespan. *Aging*, *1*(10), 875–880. <https://doi.org/10.18632/aging.100098>
- Singhand, N. K., Donovan, G. R., Batey, I. L., & MacRitchie, F. (1990). Use of Sonication and Size-Exclusion High-Performance Liquid Chromatography in the Study of Wheat Flour Proteins. I. Dissolution of Total Proteins in the Absence of Reducing Agents. *American Association of Cereal Chemists*, *67*(2), 150–161.
- Sjam, S. (2014). *Hama pascapanen dan strategi pengendaliannya* (N. Januarini (ed.); 1st ed., pp. 1–95). IPB Press. <https://opac.perpusnas.go.id/DetailOpac.aspx?id=996416>
- Smith, C. M., & Clement, S. L. (2005). *Plant Resistance to Arthropods* (1st ed.). Springer Netherlands. <https://doi.org/10.1007/1-4020-3702-3>
- Smith, C. M., & Clement, S. L. (2012). Molecular bases of plant resistance to arthropods. *Annual Review of Entomology*, *57*(1), 309–328. <https://doi.org/10.1146/annurev-ento-120710-100642>
- Smith, C. W. (2000). *Sorghum: origin, history, technology, and production* (R. A. Frederiksen (ed.)). Wiley Series in Crop Science.
- Soomro, A. A., Hussain, M., Magsi, F. H., Khanzada, K., Jaffery, S. M., Chandio, M. A., & Chang, B. H. (2017). Population dynamics of angoumois grain moth *Sitotroga cerealella* (Olivier) on cereals at room temperature. *International Journal of Fauna and Biological Studies*, *4*(4), 187–191.

<https://www.researchgate.net/publication/319208516>

- Sopialena, & Sofian. (2023). *Ketahanan Tanaman Terhadap Patogen* (1st ed.). Deepublish.
- St.Clair, D. A. (2010). Quantitative Disease Resistance and Quantitative Resistance Loci in Breeding. *Annual Review of Phytopathology*, 48(1), 247–268. <https://doi.org/10.1146/annurev-phyto-080508-081904>
- Stockhoff, B. A. (1993). Ontogenetic change in dietary selection for protein and lipid by gypsy moth larvae. *Journal of Insect Physiology*, 39(8), 677–686. [https://doi.org/10.1016/0022-1910\(93\)90073-Z](https://doi.org/10.1016/0022-1910(93)90073-Z)
- Storey, C. L., Sauer, D. B., Ecker, O., & Fulk, D. W. (1982). Insect infestations in wheat and corn exported from the United States. *Journal of Economic Entomology*, 75(5), 827–832. <https://doi.org/10.1093/jee/75.5.827>
- Stout, M. J., Kurabchew, H., & Leite, G. L. D. (2018). Host-Plant Resistance in Tomato. In *Sustainable Management of Arthropod Pests of Tomato* (pp. 217–236). Elsevier. <https://doi.org/10.1016/B978-0-12-802441-6.00009-7>
- Subramanyam, B., & Hagstrum, D. W. (1996). *Integrated management of insects in stored products* (B. Subramanyam & D. W. Hagstrum (eds.); 1st ed., pp. 1–432). CRC Press. <https://doi.org/https://doi.org/10.1201/9780203750612>
- Sujak, Sunarto, D. A., & Subiyakto. (2021). Uji Toleransi Lapang Galur-Galur Tebu Terhadap Hama Penggerek Pucuk dan Penggerek Batang. *Agrovigor: Jurnal Agroekoteknologi*, 14(1), 41–46. <https://doi.org/10.21107/agrovigor.v14i1.8506>
- Sukresna, S. C. (2016). *Respon Tanaman Gandum (Triticum aestivum L.) Pada Berbagai Jumlah Dan Frekuensi Pemberian Air*. Universitas Brawijaya.
- Sweeny, J. G., & Iacobucci, G. A. (1981). Synthesis of anthocyanidins-III. *Tetrahedron*, 37(8), 1481–1483. [https://doi.org/10.1016/S0040-4020\(01\)92086-1](https://doi.org/10.1016/S0040-4020(01)92086-1)
- Tao, Y., Mace, E. S., Tai, S., Cruickshank, A., Campbell, B. C., Zhao, X., Van Oosterom, E. J., Godwin, I. D., Botella, J. R., & Jordan, D. R. (2017). Whole-genome analysis of candidate genes associated with seed size and weight in *Sorghum bicolor* reveals signatures of artificial selection and insights into parallel domestication in cereal crops. *Frontiers in Plant Science*, 8(1237), 1–14. <https://doi.org/10.3389/fpls.2017.01237>
- Tari, I., Laskay, G., Takács, Z., & Poór, P. (2013). Response of sorghum to abiotic stresses: a review. *Journal of Agronomy and Crop Science*, 199(4), 264–274. <https://doi.org/10.1111/jac.12017>
- Tasie, M. M., & Gebreyes, B. G. (2020). Characterization of Nutritional, Antinutritional, and Mineral Contents of Thirty-Five Sorghum Varieties Grown in Ethiopia. *International Journal of Food Science*, 2020, 1–11.

<https://doi.org/10.1155/2020/8243617>

- Taylor, J. R. N., & Dewar, J. (2000). *Advances in food and nutrition research* (S. Taylor (ed.); 1st ed., Vol. 43). Academic Press.
- Taylor, J. R. N., & Dewar, J. (2001). *Developments in sorghum food technologies* (Vol. 43, pp. 217–264). Academic Press. [https://doi.org/10.1016/S1043-4526\(01\)43006-3](https://doi.org/10.1016/S1043-4526(01)43006-3)
- Taylor, J. R. N., & Duodu, K. G. (2019). *Sorghum and millets: chemistry, technology, and nutritional attributes 2nd edition* (M. R. Ball, K. R. Miller, & M. Limbert (eds.); 2nd ed.). Woodhead Publishing, Elsevier Inc., AACC International. <https://shop.elsevier.com/books/sorghum-and-millets/taylor/978-0-12-811527-5>
- Throne, J. E., & Weaver, D. K. (2013). Impact of temperature and relative humidity on life history parameters of adult *Sitotroga cerealella* (Lepidoptera: Gelechiidae). *Journal of Stored Products Research*, 55, 128–133. <https://doi.org/10.1016/j.jspr.2013.10.003>
- Tlak Gajger, I., & Dar, S. A. (2021). Plant Allelochemicals as Sources of Insecticides. *Insects*, 12(3), 189. <https://doi.org/10.3390/insects12030189>
- Tripathi, A. K. (2018). Pests of stored grains. In *Pests and Their Management* (pp. 311–359). Springer Singapore. https://doi.org/10.1007/978-981-10-8687-8_10
- Tyagi, S. K., Guru, P. N., Nimesh, A., Bashir, A. A., Patgiri, P., Mohod, V., & Khatkar, A. B. (2019). Post-harvest stored product insects and their management. In *Technical Bulletin* (pp. 1–36). ICAR-Central Institute of Post-Harvest Engineering and Technology. <https://www.semanticscholar.org/paper/Post-Harvest-Stored-Product-Insects-and-their-Tyagi-Guru/a7d986de42335178a3a1514ff83bf28a4eaf7a31>
- United States Department of Agriculture (USDA). (2019, April 1). *Nutrients: USDA FoodData Central - Sorghum Grain*. USDA - Agricultural Research Service. <https://fdc.nal.usda.gov/food-details/169716/nutrients>
- Van Hung, P. (2016). Phenolic Compounds of Cereals and Their Antioxidant Capacity. *Critical Reviews in Food Science and Nutrition*, 56(1), 25–35. <https://doi.org/10.1080/10408398.2012.708909>
- Venkateswaran, K., Elangovan, M., & Sivaraj, N. (2019). Origin, domestication, and diffusion of *Sorghum bicolor*. In *Breeding Sorghum for Diverse End Uses* (pp. 15–31). Elsevier. <https://doi.org/10.1016/B978-0-08-101879-8.00002-4>
- Venkateswaran, K., Muraya, M., Dwivedi, S., & Upadhyaya, H. (2014). Wild sorghums—their potential use in crop improvement. In Y.-H. Wang, H. D. Upadhyaya, & C. Kole (Eds.), *Genetics, Genomics and Breeding of Sorghum* (pp. 56–89). CRC Press (Taylor & Francis). <https://doi.org/10.1201/b17153-7>

- Venkateswaran, K., Sivaraj, N., Pandravada, S. R., Reddy, M. T., & Babu, B. S. (2019). Classification, distribution, and biology. In *Breeding Sorghum for Diverse End Uses* (pp. 33–60). Elsevier. <https://doi.org/10.1016/B978-0-08-101879-8.00003-6>
- Wagaw, K. (2019). Review on mechanisms of drought tolerance in sorghum (*Sorghum bicolor* (L.) Moench) basis and breeding methods. *Acad. Res. J. Agri. Sci. Res*, 7(2), 87–99. <https://doi.org/10.14662/ARJASR2019.007>
- Wagiman, F. X. (2019). *Hama pascapanen dan pengelolaannya* (Siti, Prams, & Maarif (eds.)). Gadjah Mada University Press.
- Wang, F., Chambi, C., Li, Z., Huang, C., Ma, Y., Li, C., Tian, X., Sangija, F., Ntambo, M. S., Kankonda, O. M., Hafeez, S., Anwar, T., & Sharif, R. (2018). Influence of Supplemental Protein on the Life Expectancy and Reproduction of the Chinese Citrus Fruit Fly, *Bactrocera minax* (Enderlein) (*Tetradacus minax*) (Diptera: Tephritidae). *Journal of Insect Science*, 18(2). <https://doi.org/10.1093/jisesa/iey008>
- Wang, Z.-L., Wang, X.-P., Li, C.-R., Xia, Z.-Z., & Li, S.-X. (2018). Effect of Dietary Protein and Carbohydrates on Survival and Growth in Larvae of the Henosepilachna vigintioctopunctata (F.) (Coleoptera: Coccinellidae). *Journal of Insect Science*, 18(4). <https://doi.org/10.1093/jisesa/iey067>
- Waniska, R. D., Poe, J. H., & Bandyopadhyay, R. (1989). Effects of growth conditions on grain molding and phenols in sorghum caryopsis. *Journal of Cereal Science*, 10(3), 217–225. [https://doi.org/10.1016/S0733-5210\(89\)80051-7](https://doi.org/10.1016/S0733-5210(89)80051-7)
- War, A. R., Paulraj, M. G., Ahmad, T., Buhroo, A. A., Hussain, B., Ignacimuthu, S., & Sharma, H. C. (2012). Mechanisms of plant defense against insect herbivores. *Plant Signaling & Behavior*, 7(10), 1306–1320. <https://doi.org/10.4161/psb.21663>
- Wheeler, D. (1996). The Role of Nourishment in Oogenesis. *Annual Review of Entomology*, 41(1), 407–431. <https://doi.org/10.1146/annurev.en.41.010196.002203>
- Widowati, S., & Luna, P. (2022). Nutritional and functional properties of sorghum (*Sorghum bicolor* (L.) Moench)-based products and potential valorisation of sorghum bran. *IOP Conference Series: Earth and Environmental Science*, 1024(1), 1–9. <https://doi.org/10.1088/1755-1315/1024/1/012031>
- Wieser, H., Koehler, P., & Scherf, K. A. (2020). The Two Faces of Wheat. *Frontiers in Nutrition*, 7. <https://doi.org/10.3389/fnut.2020.517313>
- Winawanti, N. I. D. (2015). *Perbedaan Waktu Emaskulasi Terhadap Keberhasilan Persilangan Gandum (Triticum aestivum L.) Di Cangar Batu* [Universitas Brawijaya]. <https://repository.ub.ac.id/id/eprint/130683>

- Wiyono, T. N. (1980). *Budidaya Tanaman Gandum* (1st ed.). PT Karya Nusantara.
- Wongsa, P., & Rattanapanone, N. (2023). Gas chromatography and multivariate analysis for wheat flours. In *Food Quality Analysis* (pp. 149–169). Elsevier. <https://doi.org/10.1016/B978-0-323-95988-9.00008-4>
- Yang, Z., van Oosterom, E. J., Jordan, D. R., & Hammer, G. L. (2009). Pre-anthesis ovary development determines genotypic differences in potential kernel weight in sorghum. *Journal of Experimental Botany*, *60*(4), 1399–1408. <https://doi.org/10.1093/jxb/erp019>
- Zhang, K.-X., Li, H.-Y., Quandahor, P., Gou, Y.-P., Li, C.-C., Zhang, Q.-Y., Haq, I. U., Ma, Y., & Liu, C.-Z. (2022). Responses of Six Wheat Cultivars (*Triticum aestivum*) to Wheat Aphid (*Sitobion avenae*) Infestation. *Insects*, *13*(6), 508. <https://doi.org/10.3390/insects13060508>
- Zhang, R., Zhou, Y., Yue, Z., Chen, X., Cao, X., Ai, X., Jiang, B., & Xing, Y. (2019). The leaf-air temperature difference reflects the variation in water status and photosynthesis of sorghum under waterlogged conditions. *PLOS ONE*, *14*(7), 1–15. <https://doi.org/10.1371/journal.pone.0219209>
- Zhong, Y., Yang, M., Cai, J., Wang, X., Zhou, Q., Cao, W., Dai, T., & Jiang, D. (2018). Nitrogen topdressing timing influences the spatial distribution patterns of protein components and quality traits of flours from different pearling fractions of wheat (*Triticum aestivum* L.) grains. *Field Crops Research*, *216*, 120–128. <https://doi.org/10.1016/j.fcr.2017.11.016>