DAFTAR PUSTAKA

Adam, J.I., and Baidoo, P.K. 2008. Susceptibility of Five Cowpea Varieties to Attack by *Callosobruchus maculatus* (F.) [Coleopteran: Bruchidae]. *Journal of Ghana Science Association.* 10(2). https://doi.org/10.4314/jgsa.v10i2.18044

Agriopoulou, S. 2016. Enniatins: An emerging food safety issue. *Journal EC Nutrition*. (5)3: p 1142–1146.

Agriopoulou, S., Stamatelopoulou, E., dan Varzakas, T. 2020. Advances in Occurrence, Importance, and Mycotoxin Control Strategies: Prevention and Detoxification in Foods. *Foods*. 9: p 137. https://doi.org/10.3390/foods9020137

Akinneye, J.O., Adedolapo, A., and Adesina, F.P. 2018. Quantification of Organophosphate and Carbamate Residue on Stored Grains in Ondo State, Nigeria. *Journal of Biology and Medicine*. 2(1): 1–6. https://doi.org/10.17352/jbm.000003

Amusa, O.D., Ogunkanmi, L.A., Adetunbi, J.A., Akinyosoye, S.T., Bolarinwa, K.A., and Ogundipe, O.T. 2014. Assessment of Bruchid (*Callosobruchus maculatus*) Tolerance of Some Elite Cowpea (*Vigna unguiculat*a) Varieties. *Journal of Agriculture and Sustainability*. 6(2): 164–178.

Amusa, O.D., Ogunkanmi, A.L., Bolarinwa, and Ojobo, O. 2013. Evaluation of Four Cowpea Lines for Bruchid (*Callosobruchus maculatus*) Tolerance. *Journal of Natural Science Research*. 3 (13): p 46–52.

Athanassiou, C.G., Arthur, F.H. 2018. *Recent Advances in Stored Product Protection*. Switzerland: Springer. https://doi.org/10.1007/978-3-662-56125-6

Ayalew, A.A. 2020. Insecticidal activity of Lantana Camara Extract Oil on Controlling Maize Grain weevils. *Toxicology Research and Application*. 4: p 1–10. https://doi.org/10.1177/2397847320906491

Badii, K.B., Asante, S.K., and Sowley., E.N.K. 2013B. Varietal Susceptibility of Cowpea (*Vigna Unguiculata* L.) to The Storage Beetle, *Callosobruchus Maculatus* (F.) (Coleoptera: Bruchidae). *International Journal of Scientific and Technology Research*. 2(4).

Balana, B.B., Aghadi, C.N., and Ogunniyi, A.I. 2021. Improving Livelihoods Through Postharvest Loss Management: Evidence from Nigeria. *Food Security*. 14: p 249–265. https://doi.org/10.1007/s12571-021-01196-2

Banga, K.S., Kumar, S., Kotwaliwale, N., and Mohapatra, D. 2020. Major Insects of Stored Food Grains. *International Journal of Chemical Studies*. 8(1): p 2380–2384. https://doi.org/10.22271/chemi.2020.v8.i1aj.8624

Beck, C.W., and Blumer, L.S. 2019. *Handbook on Bean Beetles, Callosobruchus maculatus*. Department of Biology, Emory University.

Bimasri, J. 2014. "Peningkatan Produksi Tanaman Kacang Hijau (*Vigna radiata* L.) di Tanah Gambut Melalui Pemberian Pupuk N dan P". Artikel disajikan dalam *Prosiding Seminar Nasional Lahan Suboptimal di Palembang*. Pusat Unggulan Riset Pengembangan Lahan Suboptimal (PUR-LSO), Universitas Sriwijaya 26-27 September 2014.

Bonal, R.; Muñoz, A.; Díaz, M. 2007. Satiation of Predispersal Seed Predators: The Importance of Considering Both Plant and Seed Levels. *Evolutionary Ecology*. 21. P 367–380. https://doi.org/10.1007/s10682-006-9107-y

Boukar, O., Fatokun, C.A., Roberts, P.A., Abberton, M., Huynh, B.L., Close, T.J. 2015. *"Cowpea," in Grain Legumes* (*Handbook of Plant Breeding 10*). New York: Springer. https://doi.org/10.1007/978-1-4939-2797-5_7

Bradford, K.J., Dahal, P., Van Asbrouck, J., Kunusoth, K., Bello, P., Thompson, J., and Wu, F. 2018. The Dry Chain: Reducing Postharvest Losses and Improving Food Safety in Humid Climates. *Trends in Food Science and Technology*. 71: 84–93. https://doi.org/10.1016/j.tifs.2017.11.002

Broto, W. 2003. *Mangga: Budi Daya. Pasca Panen dan Tata Niaganya*. Jakarta: Agromedia pustaka.

Campbell, F.C., Athanassiou, G.C., Hagstrum, D.W., and Zhu, K.Y. 2022. *Tribolium castaneum*: a Model Insect for Fundamental and Applied Research. *Annual Review Entomology*. 67: p 347–365. https://doi.org/10.1146/annurev-ento-080921-075157

Carvalho, M., Lino-Neto, T., Rosa, E., and Carnide, V. 2017. Cowpea: A Legume Crop for A Challenging Environment. *Journal of the Science of Food and Agriculture*. 97(13): p 4273–4284. https://doi.org/10.1002/jsfa.8250

Catalogue of Life: ITIS Regional. 2019. Catalogueoflife.org. http://www.catalogueoflife.org/annual-checklist/2019/details/database/id/17, (Diakses pada 19 Februari 2023).

Chen Z., Wassgren C., and Ambrose R.K., 2021. Measured Damage Resistance of Corn and Wheat Kernels to Compression, Friction, and Repeated Impacts. *Powder Technology*. 380: p 638–648.

https://doi.org/10.1016/j.powtec.2020.11.012

Chigoverah, A.A., Mvumi, B.M. 2016. Efficacy Of Metal Silos and Hermetic Bags Against Stored-Maize Insect Pests Under Simulated Smallholder Farmer Conditions. *Journal of Stored Products Research*. 69: p 179–189. https://doi.org/10.1016/j.jspr.2016.08.004

Dahiya, P.K., Linnemann, A.R., Van Boekel, M.A.J.S., Khetarpaul, N., Grewal, R.B., and Nout, M.J.R. 2015. Mung Bean: Technological and Nutritional Potential. *Critical Review Food Sciences Nutrition*. 55(5): p 670–688. https://doi.org/10.1080/10408398.2012.671202

DaSilva, A.B.P., Scatolini, T.B., Danao, M.G.C., Gates, R.S., and Rausch, K.D., 2018. Effects of Splits Content on Dry Matter Loss Rates of Soybeans Measured Using a Static Grain Respiration Measurement System. *American Society of Agricultural and Biological* Engineers. 64(4): 1365-1372. https://doi.org/10.13031/trans.14195

Deng, T., Garg, V., Salehi H., and Bradley, M.S. 2021. Correlations Between Segregationn Intensity and Material Properties Such as Particle Sizes and Adhesions and Novel Methods for Assessment. *Powder Technology*. 387: p 215–226. https://doi.org/10.1016/j.powtec.2021.04.023

Dobie, P. 1974. The Laboratory Assessment of The Inherent Susceptibility of Maize Varieties to Post-Harvest Infestation by *Sitophilus zeamais* Motsch. (Coleoptera: Curculionidae). *Journal of Stored Products Research*. 10: p 183 – 197. https://doi.org/10.1016/0022-474X(74)90006-X

Epperlein, K. 1992. Investigations of the Damage of Broad Bean Weevil *Bruchus rufimanus* Bohem on Broad Bean Seed. *Anzeiger Fuer Schaedlingskunde Pflanzenschutz Umweltschutz*. 65: p 147–150. https://doi.org/10.1007/BF01903403

Faizan, M., Nasir, M., Hassan, M.W., Sarwar, G., and Jamil, M. 2022. Susceptibility Evaluation of Different Legume Seed Genotypes Against *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae) under Laboratory Conditions. *Pakistan Journal of Zoology*. p 1–9. https://doi.org/10.17582/journal.pjz/20220629190659

Fan, Y., Jacob, K.V., Freireich, B., and Lueptow R.M. 2017. Segregation of Granular Materials in Bounded Heap Flow: A Review. *Powder Technology*. 312: p 67 – 88. https://doi.org/10.1016/j.powtec.2017.02.026

FAO. Climate Related Transboundary Pests and Diseases. Dapat diakses pada https://www.fao.org/3/a-ai785e.pdf, (Diakses pada 11 Mei 2023).

Fernandez, T.T., De Sa, L.F., and Riberio, E. 2014. Effects of *Phaseolus vulgaris* (Fabaceae) Seed Coat on Embryonic and Larvae Development of Cowpea Weevil *Callosobruchus maculatus* (Coleoptera: Bruchidae). *Journal Insect Physiology*. 60: p 50–61. https://doi.org/10.1016/j.jinsphys.2013.10.004

Ganesan, K., and Xu, B. 2018. A Critical Review on Phytochemical Profile and Health Promoting Effects of Mung Bean (*Vigna radiata*). *Food Science Humaniora*. 7(1): p 11–33. https://doi.org/10.1016/j.fshw.2017.11.002

García-Mosqueda, C., Salas-Araiza, M.D., Cerón-García, A., Estrada-García, H.J., Rojas-Laguna, R., and Sosa-Morales, M.E. 2019. Microwave Heating as A Post-Harvest Treatment For White Corn (*Zea mays*) Against *Sitotroga cerealella*. *Journal of Microwave Power and Electromagnetic Energy*. 53(3): p 145 – 154. https://doi.org/10.1080/08327823.2019.1643651

Garima, G., Khan, R., and Seal, D. 2021. Cowpea Weevil *Callosobruchus maculatus* (Fabricius 1775) (Insecta: Coleoptera: Bruchidae). Entomology and Nematology Department, UF/IFAS Extension. https://doi.org/10.32473/edis-in1338-2021

Gnanavel, V., and Saral, A.M. 2013. GC-MS Analysis of Petroleum Ether and Ethanol Leaf Extracts from *Abrus precatorius* linn. *International Journal of Pharmacy and Biological Sciences*. 4(3): p 37–44.

Gohara, A.K., Souza, A.H.P.D., Gomes, S.T.M., Souza, N.E.S., Visentainer, J. V., and Matsushita, M. 2016. Nutritional and Bioactive Compounds of Adzuki Bean Cultivars Using Chemometric Approach. *Ciencia e Agrotechnologia*. 40(1): p 104-113. https://doi.org/10.1590/S1413-70542016000100010

Gondwe, T.M., Alamu, E.O., Mdziniso, P., and Maziya-Dixon, B. 2019. Cowpea (*Vigna unguiculata* (L.) Walp) for Food Security: An Evaluationof End-User Traits of Improved Varieties in Swaziland. *Scientific Reports*. 9(1): p 15991. https://doi.org/10.1038/s41598-019-52360-w

Gulu, N.B. 2018. Functional and Rheological Properties of Bambara Groundnut Starch-Catechin Complex Obtained by Chemical Grafting. *Thesis*. Cape Peninsula University of Technology, Cape Town, South Africa.

Guo, D. 2015. Kernel And Bulk Density Changes Due to Moisture Content, Mechanical Damage, and Insect Damage (Doctoral Dissertation), Purdue University.

Gwinner, J., Harnisch, R., and Mück, O. 1996. Manual of The Prevention of Post-Harvest Grain Losses. Manual of The Prevention of Post-Harvest Grain Losses. Link: https://bit.ly/3F7ugRx

Habiba, K., Nukenine, E.N. 2014. Screening of Bambara Groundnut (*Vigna subterranea*) Lines for *Callosobruchus maculatus* Resistance in the Far North Region of Cameroon. *Journal Renewable Agriculture*. 2(1): p18–22. https://doi.org/10.12966/jra.03.04.2014

Hakim, L., dan Irhamni. 2019. "Ketertarikan Serangga Gudang *Callosobruchus maculatus* Fabricius (Coleoptera: Bruchidae) pada Cahaya Lampu di Penyimpanan". *Makalah disajikan dalam Prosiding Seminar Nasional Universitas Serambi Mekah*. 2(1): p 376–383.

Herniter, I. A., Muñoz-Amatriaín, M., and Close, T.J. 2020. Genetic, Textual, And Archeological Evidence of The Historical Global Spread of Cowpea (*Vigna unguiculata* [L.] Walp.). *Legume Science*. 2(4): p 1–7. https://doi.org/10.1002/leg3.57

Heuzé, V., dkk. 2013. Cowpea (*Vigna unguiculata*) Forage. Available at Feedipedia.org: A Programme by INRA, CIRA, AFZ and FAO, www.feedipedia.org/node/233 (Diakses pada 16 Mei 2023).

Hiruy, B., and Getu, E. 2018b. Insect Pests Associated to Stored Maize and Their Bio Rational Management Options in Sub-Sahara Africa. *International Journal of Academic Research and Development*. 3(1): 741–748.

Hu, Q.H., Yuan, C.H., and Li, X.L. 2022. Green Grain Warehousing: Bibliometric Analysis and Systematic Literature Review. *Environmental Science Pollution Research*. 29, 43710–43731. https://doi.org/10.1007/s11356-022-20129-w

Jain, S. K., Khare, D., Bhale, M. S. & Raut, N. D. 2002. Characterization of Mung Bean Varieties for Verification of Genetic Purity. *Seed Tech News*. 32(1), 200–201.

Janila, P., Rupavatharam, S., Kumar, C.V.S., Samineni, S., Gaur, P. M., and Varshney, R.K. 2016. Technologies For Intensification of Production and Uses of Grain Legumes For Nutritional Security. *Proceedings of the Indian National Science Academy*. 82(5): 1541-1553. https://doi.org/10.16943/ptinsa/2016/48887

Jha, A.N., Srivastava, C., Dwivedi, V. 2014. Effect of Infestation of Rice Weevil (*Sitophilus oryzae* L.). *Indian Journal Entomology*. 76: 74–76.

Kader, A.A. 1992. Postharvest Biology and Technology: an Overview. In A. A. Kader (Ed). *Postharvest of Horticultural Crops*. Univ. Carolina. USA.

Kaewwongwal, A., Liu, C., Somta, P., Chen, J., Tian, J., Yuan, X., and Chen, X. 2020. A Second Vrpgip1 Allele is Associated with Bruchid Resistance

(*Callosobruchus* Spp.) in Wild Mungbean (*Vigna Radiata* Var. Sublobata) Accession ACC41. *Molecular Genetics and Genomics*. 295(2): p 275–286. https://doi.org/10.1007/s00438-019-01619-y

Kaniuczak, Z. 2004. Seed Damage of Field Bean (*Vicia faba* L. Var. Minor Harz.) Caused by Bean Weevils (*Bruchus rufimanus* Boh.) (Coleoptera: Bruchidae). *Journal of Plant Protection Research*. 44(2): p 125–129.

Katiyar, P.K., and Dixit, G.P. 2010. Genetic Divergence in Indian black gram (*Vigna mungo*) Cultivars. *Indian Journal of Agriculture Science*. 80(3): p 242 – 243.

Kaur, R., Toor, A.K., Geeta, B., and Bains, T.S. 2017. Characterization of Mung Bean (Vigna Radiata L. Wilczek) Varieties Using Morphological and Molecular Descriptors. *International Journal of Current Microbiology and Applied Sciences*. 6(6): p 1609-1618. https://doi.org/10.20546/ijcmas.2017.606.189

Kechkin, I.A., Ermolaev, V.A., Romanenko, A.I., Tarakanova, V. V., and Buzetti, K.D. 2020. "Management of Air Flows Inside Steel Silo During Grain Storage". This journal was presented at the *International Scientific-Practical Conference Agriculture and Food Security: Technology, Innovation, Markets, Human Resources*. Kazan, Rusia 13–14 November 2019. https://doi.org/10.1051/bioconf/20201700108

Khan, F., Nayab, M., Ansari, A.N., and Zubair, M. 2021. Medicinal Properties of Mash (*Vigna mungo* (Linn.) Hepper): A Comprehensive Review. *Journal of Drugs Delivery and Therapeutics*. 11(3-s): p 121–124. https://doi.org/10.22270/jddt.v11i3-S.4888

Khelfane-Goucem, K., and Medjdoub-Bensaad, F. 2016. Impact of *Bruchus Rufimanus* Infestation upon Broad Bean Seeds Germination. *Advances in Environmental Biology.* 10(5): p 144–152.

Kosini, D., Saidou, C., and Nukenine, E.N. 2017. Physico-chemical Properties and Resistance of Ten Bambara Groundnut (*Vigna subterranea*) Varieties to Attack by *Callosobruchus maculatus* (Fabricius) (Coleoptera: Chrysomelidae) in the Sudano-sahelian and Sudano-guinean Zones of Cameroon. *Journal Experimental Agriculture International*. 15(1): p 1–14. https://doi.org/10.9734/JEAI/2017/30778

Kostyukovsky, M., Trostanetsky, A., and Quinn, E. 2016. Novel Approaches for Integrated Grain Storage Management. *Israel Journal Plant Science*. 63: p 7–16. https://doi.org/10.1080/07929978.2016.1159410

Kumar, D., and Kalita, P. 2017. Reducing Postharvest Losses During Storage of

Grain Crops to Strengthen Food Security in Developing Countries. *Foods*. 6(1): p 1-22. https://doi.org/10.3390/foods6010008

Kumar, R., Mittal, R.K., and Pandey, D.P. 2012. Genetic Variability for Yield and Growth Attricutes in Adzuki. *Research on Crops*. 13(2): p 562–565.

Kumar, S., Phogat, D., and Bhusal, N. 2015. Characterization of Elite Forage Cowpea Genotypes for Various DUS Traits. *Forage Research*. 40(4): p 232–236.

Kumari, J.W.P., Wijayaratne, L.K.W., Jayawardena, N.W.I.A., and Egodawatta, W.C.P. 2020. Quantitative and Qualitative Losses in Paddy, Maize and Greengram Stored under Household Conditions in Anuradhapura District of Sri Lanka. *Sri Lanka Journal of Agriculture and Ecosystems*, 2(1): p 99–106. https://doi.org/10.4038/sljae.v2i1.32

Lasmaria, Y., L. Fitriani dan Seprianingsih. 2016. Pengaruh Pupuk Organik Terhadap Pertumbuhan Kacang Hijau (*Phaseolus radiatus* L.). p 1–7.

Li, L., Liu, B., and Zheng, X. 2011. Bioactive Ingredients in Adzuki Bean Sprouts. *Journal of Medicinal Plant Research*. 5(24):5894-5898.

Liu, S., Song, F., Liu, F., Zhu, X., and Xu, H. 2012. Effect of Planting Density on Root Lodging Resistance and its Relationship to Nodal Root Growth Characteristics in Maize (*Zea mays* L.). *Journal Agriculture Science*. 4(12): p 182–189. https://doi.org/10.5539/jas.v4n12p182

Loko, Y.LE., Toffa, J., Orobiyi, A., Dassou, G.A., Okpeicha, R., Gavoedo, D., and Dansi, A. 2022. Effects of Seed Physical Characteristics of Benin Soybean Germplasm on their Resistance to *Callosobruchus maculatus Fabricius* (*Coleoptera: Bruchidae*). *Sarhad Journal of Agriculture*. 38(4): p 1468–1477. https://doi.org/10.17582/journal.sja/2022/38.4.1468.1477

Longvah, T., Ananthan, R., Bhaskarachary, K., and Venkaiah, K. 2017. *India Food Composition Tables*. India: Indian Council of Medical Research.

Lopes, L.M., Sousa, A.H., Santos, V.B., Silva, G.N., and Abreu, A.O. 2018. Development Rates of *Callosobruchus maculatus* (Coleoptera: Chrysomelidae) in Landrace Cowpea Varieties Occurring in Southwestern Amazonia. *Journal of Stored Products Research*. 76: p 111–115. https://doi.org/10.1016/j.jspr.2018.01.008

Magagula, C.N. and Maina, Y.T. 2012. Activity of *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae) on Selected Bambara Groundnut (*Vigna subterranea* L. Verdc.) Landraces and Breeding Lines. *Journal of Natural Sciencea*

Research. 2(3): p 67–75.

Mahjabin., Bilal, S., and Abidi, A.B. 2015. Physiological and Biochemical Changes During Seed Deterioration: A Review. *International Journal of Recent Scientific Research*. 6(4): p 3416–3422.

Mainali, B.P., Kim, H.J., Part, C.G., Yoon, Y.N., and Lee, Y.H. 2015. Interacive Effect of Temperature and Relative Humidity on Oviposition and Development of *Callosobruchus chinensis* (Lin.) on Azuki Bean. *Journal of Stored Product Reseach*. 63: p 57-50. https://doi.org/10.1016/j.jspr.2015.05.008

Majola, N.G., Gerrano, A.S., and Shimelis, H. 2021. Bambara Groundnut (*Vigna subterranea* [L.] Verdc.) Production, Utilisation and Genetic Improvement in Sub-Saharan Africa. *Agronomy*. 11(7): p 1–16. https://doi.org/10.3390/agronomy11071345

Malaikozhundan, B., Raj, S., and Thiravia. 2012. A Study on The Developmental Biology of *Callosobruchus Maculatus* (Fabricius) in Different Pulses. *Legume Research*. 35(2): p 159–163.

Manandhar, A., Milindi, P., and Shah, A. 2018. An Overview of The Post-Harvest Grain Storage Practices of Smallholder Farmers in Developing Countries. *Agriculture*. 8(4): p 1–21. https://doi.org/10.3390/agriculture8040057

Mannaa, M., and Kim, K.D. 2017. Influence of Temperature and Water Activity on Deleterious Fungi and Mycotoxin Production During Grain Storage. *Mycobiology*. 45(4): p 240–254. https://doi.org/10.5941/MYCO.2017.45.4.240

Mapfeka, R.F., Mandumbu, R., Zengeza, T., Kamota, A., Masamha, B., Marongwe, F.D., Mutsamba-Magwaza, E.F., Nyakudya, E., and Nyamadzawo, G. 2019. Postharvest Cereal Structures and Climate Change Resilience in Rural Zimbabwe: A review. *International Journal of Postharvest Technology and Innovation*. 6(4): 257–275. https://doi.org/10.1504/IJPTI.2019.106460

Maphosa, Y. 2016. Characterisation of Bambara groundnut (*Vigna subterranea* (L) Verdc.) Non-Starch Polysaccharides from Wet Milling as Prebiotics. *Thesis*. Cape Peninsula University of Technology, Cape Town, South Africa.

Messina, F.J., Lish, A.M., and Gompert, Z. 2019. Components of Cowpea Resistance to the Seed Beetle *Callosobruchus maculatus* (Coleoptera: Chrysomelidae: Bruchinae). *Journal of Economic Entomology*. 112(5): 2418–2424. https://doi.org/10.1093/jee/toz117

Meyers, T.P., and Hollinger, S.E. 2004. An Assessment of Storage Terms in The Surface Energy Balance of Maize and Soybean. *Agriculture For Meteorology*. 125(1-2): 105-115, https://doi.org/10.1016/j.agrformet.2004.03.001

Miesho, W.B., Gebremedhin, H.M., Msiska, U.M., Mohammed, K.E., Malinga, G.M., Sadik, K., Odong, T.L., Rubaihayo, P., and Kyamanywa, S. 2018. New Sources of Cowpea Genotype Resistance to Cowpea Bruchid *Callosobruchus maculatus* (F.) in Uganda. *International Journal Application Agriculture Research*. 12(4): 39–52.

Mir H. and Shahbazi F., 2022. Simulated Transit Vibration Effects on The Postharvest Quality of Persimmon During Storage. *Postharvest Biology Technology*. 189(2): p 111918. https://doi.org/10.1016/j.postharvbio.2022.111918

Moretti, A., Logrieco, A.F., and Susca, A. 2017. Mycotoxin: An Underhand Food Problem. *Methods Molecular Biology*. 1542: p 3–12. https://doi.org/10.1007/978-1-4939-6707-0_1

Muhammad, I., Abdullahi, N., Musa, I., Gambo, B.Z., and Adamu, A.A. 2021. Effect of Cowpea Seed Beetle (*Callosobruchus maculatus*) Infestation on Selected Landraces of Bambara Groundnut During Storage. *Bioremediation Science and Technology Research*. 9(2): p 31–34. https://doi.org/10.54987/bstr.v9i2.624

Murevanhema, Y.Y., and 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): p 954–967. https://doi.org/10.1080/10408398.2011.574803

Musa, A., and Adeboye, A.A. 2017. Susceptibility of Some Cowpea Varieties to The Seed Beetle *Callosobruchus Maculatus* (F.) (Coleoptera: Chrysomelidae). *Journal of Agricultural Sciences*. 62(4): p 351–360. https://doi.org/10.2298/JAS1704351M

Mwangi, J.K., Mutungi, C.M., Midingoyi, S.K.G., Faraj, A.K., and Affognon, H.D. 2017. An Assessment of The Magnitudes and Factors Associated With Postharvest Losses in Off-Farm Grain Stores in Kenya. *Journal of Stored Products Research*. 73: 7–20. https://doi.org/10.1016/j.jspr.2017.05.006

Narendran, RB., Jian F., Jayas, D.S., Fields, P.G., and White, N.D. 2019. Segregation of Canola, Kidney Bean, and Soybean in Wheat Bulks During Bin Loading. *Powder Technology*. 344: p 307–313. https://doi.org/10.1016/j.powtec.2018.12.042

Nattudurai, G., Arulvasu, C., and Baskar, K. 2017. Indigenous Knowledge in Stored Product Pests Management. *Entomology, Ornithology & Herpetology*. 6(2): 1000e127.

Navarro., Shlomo., and Navarro, H. 2016. "Emerging Global Technological Challenges in The Reduction of Postharvest Grain Losses". In S Navarro, D. Jayas, and K. Alagusundaram (Eds.). This journal was presented at the *Proceedings of the 10th International Conference on Controlled Atmosphere and Fumigation in Stored Products*. p 259–265.

Nayak, M.K., Daglish, G.J., Phillips, T.W., and Ebert, P.R. 2020. Resistance to the Fumigant Phospine and its Management in Insect Pests of Stored Products: A Global Perspective. *Annual Review Entomology*. 65: p 335–350. https://doi.org/10.1146/annurev-ento-011019-025047

Nguyen, N.V., Arya, R.K., and Panchta, R. 2019. Studies on Genetic Parameters, Correlation and Path Coefficient Analysis in Cowpea. *Range Management and Agroforestry*. 40(1): p 49–58.

Nikolova, I., Georgieva, N. 2015. Evaluation of Damage Caused by *Bruchus pisorum* L. on Some Parameters Related to Seed Quality of Pea Cultivars. *Journal of Central European Agriculture*. 16(3): 330–343. https://doi.org/10.5513/JCEA01/16.3.1628

Njonjo, M.W., Muthomi, J.W., Mwang'Ombe, A.W., and Carozzi, M. 2019. Production Practices, Postharvest Handling, and Quality of Cowpea Seed Used by Farmers in Makueni and Taita Taveta Counties in Kenya. *International Journal of Agronomy*. 1607535. https://doi.org/10.1155/2019/1607535

Ojumoola, A.O., Adesiyun, A.A. 2015. Effects of Varietal Differences and Severity of Seed Damage by *Callosobruchus maculatus* (F.) on the Weight and Germination of Some Improved Cowpea Seeds. *Nigerian Journal of Entomology.* 31: 161–167. https://doi.org/10.36108/NJE/5102/13.0162

Olaleye, A.A., Adeyeye, E.I., and Adesina, A.J. 2013. Chemical Composition of Bambara Groundnut (*V. subterranea* L. Verdc) Seed Parts. *Bangladesh Journal of Scientific and Industrial Research*. 48(3): p 167–178. https://doi.org/10.3329/bjsir.v48i3.17325

Osman, D.F., Omara, S.M., Hassanein, S.S.M., Ghareb, M.S., Al-Otaibi, W.M., Aljameeli, M.M.E., Abdallah, H. 2023. Varietal Susceptibility of Certain Broad Bean Seeds to Infestation With *Callosobruchus maculatus* (F.) and *Callosobruchus chinensis* (L.) (*Coleoptera: Bruchidae*). *Saudi Journal of Biological Sciences*. 30(5): p 1–9. https://doi.org/10.1016/j.sjbs.2023.103645

Parven, A., Khan, M. S. I., Prodhan, M. D. H., Venkateswarlu, K., Megharaj, M., and Meftaul, I. M. 2021. Human Health Risk Assessment Through Quantitative Screening of Insecticide Residues in Two Green Beans to Ensure Food Safety. *Journal of Food Composition and Analysis*, 103: 104-121. https://doi.org/10.1016/j.jfca.2021.104121

Patel, J.D., Patel, J.B. and Chetariya, C.P. 2019. Characterization of Mung bean (Vigna radiata L. Wilczek) Genotypes Based on Plant Morphology. *Indian Journal of Pure and Applied Biosciences*. 7(5): p 433-443. https://doi.org/10.18782/2320-7051.7793

Paul, A., Radhakrishnan, M., Anandakumar, S., Shanmugasundaram, S., and Anandharamakrishnan, C. 2020. Disinfestation techniques for Major Cereals: A Status Report. *Comprehensive Reviews in Food Science and Food Safety*. 19(3): p 1125-1155. https://doi.org/10.1111/1541-4337.12555

Paulsen M.R., Singh M., and Singh V., 2019. *Measurement and maintenance of corn quality. In: Corn* (Ed. S.O. Serna-Saldivar). AACC International Press: Oxford. https://doi.org/10.1016/B978-0-12-811971-6.00007-3

Quellhorst, H.E., Njoroge, A., Venort, T., and Baributsa, D. 2020. Postharvest Management of Grains in Haiti and Gender Roles. *Sustainability*. 12: p 1–13. https://doi.org/10.3390/su12114608

Quemada-Villagómez, L.I., Molina-Herrera, F.I., Carrera-Rodríguez, M., Calderón-Ramírez, M., Martínez-González, G. M., Navarrete-Bolaños, J.L., and Jiménez-Islas, H. 2020. Numerical Study to Predict Temperature and Moisture Profiles in Unventilated Grain Silos at Prolonged Time Periods. *International Journal of Thermophysics*, 41(5): p 1–28. https://doi.org/10.1007/s10765-020-02636-5

Ragul, S., Manivannan, N., Iyanar, K., Ganapathy, N., and Karthikeyan, G. 2022. Screening and Biochemical Analysis on Blackgram Genotypes for Resistance against Storage Pest Bruchine [*Callosobruchus maculatus* (F.)]. *Legume Research - an International Journal*. 45(3): p 371–378. https://doi.org/10.18805/LR-4528

Rahman, M.A., Nesa, M., Sultana, S., Ara, N., and Laz, R. 2022. Studies on the Life History Traits of *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae) Reared in Black Gram (*Vigna mungo* L.). *International Journal of Entomology Research*. 7(4): p 1–10.

Reddy, C. K., Luan, F., and Xu, B. 2017. Morphology, Crystallinity, Pasting, Thermal and Quality Characteristics of Starches Adzuki Bean (*Vigna Angularis* L.) and Edible Kudzu (*Pueraria thomsonii* Benth). *International Journal of Biological Macromolecules*. 105: p 354–362.

https://doi.org/10.1016/j.ijbiomac.2017.07.052

Sahasakul, Y., Aursalung, A., Thangsiri, S., Wongchang, P., Sangkasa-ad, P., Wongpia, A., Polpanit, A., Inthachat, W., Temviriyanukul, P., and Suttisansanee, U. 2022. Nutritional Compositions, Phenolic Contents, and Antioxidant Potentials of Ten Original Lineage Beans in Thailand. *Foods*. 11(2062): p 1–18. https://doi.org/10.3390/foods11142062

Said, P.P., and Pashte, V.V. 2015. Botanicals: The Protectants of Stored Grains Pests. *Trends in Biosciences*. 8(15): 3750–3755.

Salisbury, F.B. dan C.W. Ross. 1995. *Plant physiology*. Third Edition. Wadworth Publishing Company Inc., Belmont, California.

Seetharamu, P., Swathi, K., Dhurua, S., Suresh, M., Govindarao, S., & Sreesandhya, N. 2020. Bioefficacy of Chemical Insecticides Against Major Sucking Insect Pests on Grain Legumes in India- a Review. *Legume Research*. 43(1): P 1–7. https://doi.org/10.18805/LR-4074

Sekendeer, S., Sultana, S., Akter, T., dan Begum, S. 2020. Susceptibility Of Different Stored Pulses Infested by Pulse Beetle, *Callosobruchus Chinensis* (Lin.). *Dhaka University Journal of Biological Sciences*. 29(1): p 19–25. https://doi.org/10.3329/dujbs.v29i1.46527

Shahbazi F., 2011. Impact Damage to Chickpea Seeds as Affected by Moisture Content and Impact Velocity. *Applied Engineering in Agriculture*. 27(5): p 771–775.

Shahbazi F., 2021. *Mechanical Damage to Agricultural Grains (Causes and Solutions) (in Farsi)*. Lorestan University Press: Iran.

Sharma, S. and D.R. Thakur. 2014a. Comparative Developmental Compatibility of *Callosobruchus maculatus* on Cowpea, Chickpea and Soybean Genotypes. *Asian Journal of Biological Sciences*. 7(6): p 270–276. https://doi.org/10.3923/ajbs.2014.270.276

Silva, M.I.L., Voigt, E.L., Grangeiro, L.C., Cunha, E.E., MacEdo, C.E.C. and Torres, S.B. 2015. Determination of Harvest Maturity *in Capsicum baccatum* L. Seeds Using Physiological and Biochemical Markers. *Australian Journal Crop Science*. 9:1010-1015.

Singh, A.K., Biswas, U., Kumar, R.R., Swain, S., Swarnam, T.P. 2020. Morphological Diversity Among Farmers Varieties of Urdbean (*Vigna mungo* L.) of Andaman and Nicobar Islands Agro-Ecosystem. *Legume Research: An International Journal*. 43(2): p 2 – 8.

Sinha, R.N. 1983. Effects of Stored-Product Beetle Infestation on Fat Acidity, Seed Germination, and Microflora of Wheat1. *Journal of Economic Entomology*J. Econ. 76(4): p 813–817. https://doi.org/10.1093/jee/76.4.813

Suthar, R.G., Barrera, J.I., Judge, J., Brecht, J.K., Pelletier, W., and Muneepeerakul, R. 2019. Modeling Postharvest Loss and Water and Energy Use in Florida Tomato Operations. *Postharvest Biology and Technology*. 153: p 61–68. https://doi.org/10.1016/j.postharvbio.2019.03.004

Swai, J., Mbega, E.R., Mushongi, A., and Ndakidemi, P.A. 2019. Postharvest Losses in Maize Store-Time and Marketing Model Perspectives in Sub-Saharan Africa. *Journal of Stored Products and Postharvest Research*. 10(1): p 1–12.

Swamy, S.G., Kamakshi, N., and Wesley B.J. 2019. Relative Susceptibility of Chickpea Varieties to Pulse Bruchid, *Callosobruchus maculatus* (F.). *Journal of Entomology and Zoology Studies*. 7(3): 442-446.

Tayade, A.B., Dhar, P., Kumar, J., Sharma, M., Chauhan, R.S., Chaurasia, O.P. and Srivastava, R.B. 2013. Chemometric Profile of Root Extracts of *Rhodiola Imbricata* Edgew. With Hyphenated Gas Chromatography Mass Spectrometric Technique. *PLoS One*. 8(1): e52797. https://doi.org/10.1371/journal.pone.0052797

Tazawa, H., Kano, H., Matsumoto, N., and Murakami, M. 2018. Aroma Compounds Contributing to The Flavor of Adzuki Bean Jam Used for Dorayaki Sweets. *Journal of the Integrated Study of Dietary Habits*. 29(1): p 45-52. https://doi.org/10.2740/jisdh.29.1_45

Tibagonzeka, J.E., Akumu, G., Kiyimba, F., Atukwase, A., Wambete, J., Bbemba, J., and Muyonga, J.H. 2018. Post-Harvest Handling Practices and Losses for Legumes and Starchy Staples in Uganda. *Agricultural Sciences*. 09: p 141-156. https://doi.org/10.4236/as.2018.91011

Torabian, S., Qin, R., Wysocki, D., and Liang, X. 2021. *Adzuki Bean: a Potential Rotational Crop for the Columbia Basin.* Oregon State University: Amerika.

Torres, E.B., Nóbrega, R.S.A., Júnior, P.F., Silva, L.B., Carvalho, G.S., Marinho R.C.N., and Pavan, B.E. 2016. The Damage Caused by *Callosobruchus maculatus* on Cowpea Grains is Dependent on The Plant Genotype. *Journal of Science Food and Agriculture*. 96: p 4276–4280. https://doi.org/10.1002/jsfa.7639

Tresniawati C, Murniati E, dan Widayati E. 2014. Perubahan Fisik, Fisiologi dan Biokimia Selama Pemasakan Benih dan Studi Rekalsitransi Benih Kemiri

Sunan. *Jurnal Agronomi Indonesia*. 42(1): p 74–79.

USDA. 2021. Pusat Data Pangan. https://fdc.nal.usda.gov/ (Diakses pada 02 Mei 2023).

Uyi, O.O., and Igbinoba, O.G. 2016. Repellence and Toxicological Activity of the Root Powder of an Invasive Alien Plant, *Chromolaena odorata* (L.) (Asteraceae) Against *Callosobruchus maculatus* (Fab.) (Coleoptera: Chrysomelidae). *Animal Research International*. 13(3): p 2510-2517.

Valombola, J.S., Awala, S.K., and Hove, K. 2022. Morphological Characterisation of Bambara Groundnut (*Vigna subterranea* (L.) Verdc.) Germplasm Collections: A Basis for Crop Improvement. *Journal Of Agriculture and Applied Biology*. 3(1): p 8–18. https://doi.org/10.11594/jaab.03.01.02

Verma, A., Parikh, M., Rastogi, N.K., and Sharma, B. 2022. DUS Characterization of Urdbean (*Vigna mungo* L.) Genotypes Using Morphological and Agronomical Traits. *The Pharma Innovation Journal*. 11(9): p 37 – 43.

Verma, S., Malik, M., Kumar, P., Choudary, D., Jaiwal, P.K., and Jaiwal, R. 2018. Susceptibility of Four Indian Grain Legumes to Three Species of Stored Pest, Bruchid (Callosobruchus) and Effect of Temperature on Bruchids. *International Journal of Entomology Research*. 3 (2): p 5–10.

Yadav, U., Singh, N., Arora, S., Arora, B. 2019. Physicochemical, Pasting, and Thermal Properties of Starches Isolated from Different Adzuki Bean (*Vigna angularis*) Cultivars. *Journal Food Processing* Preservation. 43(11): e14163.

Yao, D.N., Kouassi, K.N., Erba, D., Scazzina, F., Pellegrini, N., and Casiraghi, M.C. 2015. Bambara Groundnut Ci12 Landrace [*Vigna subterranea* (L.) Nutritive Evaluation of The Verdc. (*Fabaceae*)] produced in Côte d'Ivoire. *International Journal of Molecular Science* 16: p 21428–21441. https://doi.org/10.3390/ijms160921428

Yi-Shen, Z., Shuai, S., and Fitz-Gerald, R. 2018. Mung Bean Proteins and Peptides: Nutritional, Functional and Bioactive Properties. *Food Nutrition Research*. 60(1290): p 1–11. https://doi.org/10.29219/fnr.v62.1290

Yongki, A., Nurlina. 2014. Aplikasi Edible Coating Dari Pektin jeruk Songhi Pontianak (*Citrus Nobilis* Var Microcarpa) pada Penyimpanan Buah Tomat. *Jurnal Kimia Khatulistiwa*. 3(4): p 11–20.

Yu, W., Elleby, C., and Zobbe, H. 2015. Food Security Policies in India and China: Implications for National and Global Food Security. *Food Security*. 7: p 405–

414. https://doi.org/10.1007/s12571-015-0432-2

Yuanyuan, Z., Zhixing, R., Hao, Y., dan Yu, L. 2022. A Novel Multi-Criteria Framework for Optimizing Ecotoxicological Effects and Human Health Risks of Neonicotinoid Insecticides: Characterization, Assessment and Regulation Strategies. *Journal of Hazardous Materials*, 432, 128712. https://doi.org/10.1016/j.jhazmat.2022.128712

Zaenal, A., Wijaya, dan Wahyuni, S. 2013. Pengaruh Takaran Pupuk Nitrogen dan Pupuk Organik Kascing Terhadap Pertumbuhan dan Hasil Tanaman Caisin (*Brassica juncea* L.). *Jurnal Agrijati.* 24(1): p 1 – 11.

Zaheer, M., Ahmed, S., and Hassan, M.M. 2020. *Vigna unguiculata* (L.) Walp. (Papilionaceae): A Review of Medicinal Uses, Phytochemistry and Pharmacology. *Journal of Pharmacognosy and Phytochemistry*. 9(1): 1349-1352.

Zhang, B., and Xue, W. 2012. Research Progress in Functional Properties of Adzuki Bean. *Food Science.* 33(9): p 264–266.