

Journal Articles – Fall 2020

Achar, P. N., Quyen, P., Adukwu, E. C., Sharma, A., Msimanga, H. Z., Nagaraja, H., & Sreenivasa, M. Y. (2020). Investigation of the Antifungal and Anti-Aflatoxigenic Potential of Plant-Based Essential Oils against *Aspergillus flavus* in Peanuts. *Journal of fungi (Basel, Switzerland)*, 6(4). doi:10.3390/jof6040383

Ayodeji Simeon, A., Chan Sol, P., Adekunle, A., Oluyinka Abiona, O., & Olayiwola, A. (2020). Digestibility of Amino Acids in Protein-Rich Feed Ingredients Originating from Animals, Peanut Flour, and Full-Fat Soybeans Fed to Pigs. *Animals*, 10(2062), 2062-2062. doi:10.3390/ani10112062

Bagheri, H. (2020). Application of infrared heating for roasting nuts. *Journal of Food Quality*, 2020(8813047).

Cha, C.-Y., & Lee, K.-G. (2020). Effect of roasting conditions on the formation and kinetics of furan in various nuts. *Food chemistry*, 331, 127338. doi:10.1016/j.foodchem.2020.127338

de Silva, D., Halcken, S., Singh, C., Muraro, A., Angier, E., Arasi, S., . . . Roberts, G. (2020). Preventing food allergy in infancy and childhood: Systematic review of randomised controlled trials. *Pediatric Allergy & Immunology*, 31(7), 813-826. doi:10.1111/pai.13273

Dugardin, C., Cudennec, B., Turrett, M., Caron, J., Guérin-Deremaux, L., Behra-Miellet, J., . . . Ravallec, R. (2020). Explorative Screening of Bioactivities Generated by Plant-Based Proteins after In Vitro Static Gastrointestinal Digestion. *Nutrients*, 12(12), 3746. doi:10.3390/nu12123746

Fernandes, A. C. F., Vieira, N. C., Santana, Á. L. d., Gandra, R. L. d. P., Rubia, C., Castro-Gamboa, I., . . . Macedo, G. A. (2020). Peanut skin polyphenols inhibit toxicity induced by advanced glycation end-products in RAW264.7 macrophages. *Food*

and chemical toxicology : an international journal published for the British Industrial Biological Research Association, 145, 111619. doi:10.1016/j.fct.2020.111619

Gao, X., Bamba, A. S. A., Kundy, A. C., Mateva, K. I., Chai, H. H., Ho, W. K., . . . Massawe, F. (2020). Variation of Phenotypic Traits in Twelve Bambara Groundnut (*Vigna subterranea* (L.) Verdc.) Genotypes and Two F2 Bi-Parental Segregating Populations. *Agronomy, 10*(10), 1451. doi:10.3390/agronomy10101451

Garcia-Alvarez-Coque, J. M., Taghouti, I., & Martinez-Gomez, V. (2020). Changes in aflatoxin standards: implications for EU border controls of nut imports. *Applied Economic Perspectives and Policy, 42*(3), 524-541. doi/10.1093/aep/ppy036

Gell, R. M., Horn, B. W., & Carbone, I. (2020). Genetic map and heritability of *Aspergillus flavus*. *Fungal genetics and biology : FG & B, 144*, 103478. doi:10.1016/j.fgb.2020.103478

Gong, A. D., Sun, G. J., Zhao, Z. Y., Liao, Y. C., & Zhang, J. B. (2020). *Staphylococcus saprophyticus* L-38 produces volatile 3,3-dimethyl-1,2-epoxybutane with strong inhibitory activity against *Aspergillus flavus* germination and aflatoxin production. *World Mycotoxin Journal, 13*(2), 247-258.

Gundaraniya, S. A., Ambalam, P. S., & Tomar, R. S. (2020). Metabolomic Profiling of Drought-Tolerant and Susceptible Peanut (*Arachis hypogaea* L.) Genotypes in Response to Drought Stress. *ACS omega, 5*(48), 31209-31219. doi:10.1021/acsomega.0c04601

Guo, Y., Wang, C., Zhang, J., Wang, Q., Afriyie, G., & Wang, Z. (2020). A distinct mitogenome of peanut worm *Sipunculus nudus* (Sipuncula, Sipunculidae) from Beibu Gulf. *Mitochondrial DNA: Resources, 5*(2), 1839.

Hashemi, S. M. B., Hashemi Moosavi, M., Hossein Asadi-Yousefabad, S., Omid, M., & Mousavi Khaneghah, A. (2020).

Effect of storage temperature on fungal growth and aflatoxin formation in oils extracted from wild almond nuts. *Journal of Food Processing & Preservation*, 44(12), 1-5. doi:10.1111/jfpp.14987

Hou, M., Zhang, Y., Mu, G., Cui, S., Yang, X., & Liu, L. (2020). Molecular cloning and expression characterization of flavonol synthase genes in peanut (*Arachis hypogaea*). *Scientific Reports*, 10(1), 17717. doi:10.1038/s41598-020-74763-w

Igarashi, K., & Kurata, D. (2020). Effect of High-Oleic Peanut Intake on Aging and Its Hippocampal Markers in Senescence-Accelerated Mice (SAMP8). *Nutrients*, 12(11), 3461. doi:10.3390/nu12113461

Jeammuangpuk, P., Promchote, P., Duangpatra, J., Chaisan, T., Onwimol, D., & Kvien, C. K. (2020). Enhancement of Tainan 9 Peanut Seed Storability and Germination under Low Temperature. *International Journal of Agronomy*, 1.

Junhua, L., Zemin, H., Youlin, X., Yong, L., & Boshou, L. (2020). A review on biosynthesis and genetic regulation of aflatoxin production by major *Aspergillus* fungi. *Oil Crop Science*, 5(4), 166-173. doi:10.1016/j.ocsci.2020.11.001

Kang, J., Peng, Q., Zhang, C., Zhang, N., & Fang, H. (2020). DESIGN AND TESTING OF A PUNCHING-ON-FILM PRECISION HOLE SEEDER FOR PEANUTS. *Biochemical Journal*, 477(19), 1685.

Khan, M. M. H., Rafii, M. Y., Ramlee, S. I., Jusoh, M., & Mamun, A. (2020). Genetic Variability, Heritability, and Clustering Pattern Exploration of Bambara Groundnut (*Vigna subterranea* L. Verdc) Accessions for the Perfection of Yield and Yield-Related Traits. *BioMed Research International*, 1-31. doi:10.1155/2020/2195797

Kinfe, T., Gebeyehu, T., & Dereje, A. (2020). Effect of starter nitrogen and phosphorus fertilizer rates on yield and

yield components, grain protein content of groundnut (*Arachis Hypogaea* L.) and residual soil nitrogen content in a semiarid north Ethiopia. *Heliyon*, 6(10). doi:10.1016/j.heliyon.2020.e05101

Kostandini, G., Tanellari, E., & Gaskell, J. (2020). The Effect of Land Tenure and Erosion Measures on Productivity and Investments: Plot and Household Level Evidence from Mali. *The Journal of Developing Areas*, 55(2).

Macri, A. M., Pop, I., Simeanu, D., Toma, D., Sandu, I., Pavel, L. L., & Mintas, O. S. (2020). The Occurrence of Aflatoxins in Nuts and Dry Nuts Packed in Four Different Plastic Packaging from the Romanian Market. *Microorganisms*, 9(1). doi:10.3390/microorganisms9010061

Martin, L. J., Dias, J. L. C. S., Sellers, B. A., Ferrell, J. A., Leon, R. G., & Vendramini, J. M. B. (2020). Tolerance of pinto peanut to PRE and POST herbicides. *Weed Technology*, 34(6), 870.

Mbah, E. U., Keke, C., & Ogidi, E. G. O. (2020). Agronomic and productivity efficiency of two animal manure sources on intercropped maize-groundnut in the derived savannah. *Agricultura Tropica et Subtropica*, 53(4), 215-228. doi:10.2478/ats-2020-0022

Moradi, M., Rohani, M., Fani, S. R., Mosavian, M. T. H., Probst, C., & Khodaygan, P. (2020). Biocontrol potential of native yeast strains against *Aspergillus flavus* and aflatoxin production in pistachio. *Food Additives & Contaminants. Part A: Chemistry, Analysis, Control, Exposure & Risk Assessment*, 37(11), 1963. doi:10.1080/19440049.2020.1811901

Murathan, Z. T., Kaya, A., Erbil, N., Arslan, M., Dıraz, E., & Karaman, Ş. (2020). Comparison of Bioactive Components, Antimicrobial and Antimutagenic Features of Organically and Conventionally Grown Almond Hulls. *Vergleich von bioaktiven Komponenten, antimikrobiellen und antimutagenen Eigenschaften*

in grünen Schalen ökologisch und konventionell angebauter Mandeln., 62(4), 463-472. doi:10.1007/s10341-020-00525-7

Norlia, M., Jinap, S., Nor-Khaizura, M. A. R., Radu, S., John, J. M., Rahman, M. A. H., . . . Sharif, Z. (2020). Modelling the effect of temperature and water activity on the growth rate of *Aspergillus flavus* and aflatoxin production in peanut meal extract agar. *International Journal of Food Microbiology*, 335, 108836. doi:10.1016/j.ijfoodmicro.2020.108836

O'Brien, P. L., Thomas, A. L., Sauer, T. J., & Brauer, D. K. (2020). Foliar nutrient concentrations of three economically important tree species in an alley-cropping system. *Journal of Plant Nutrition*, 43(17), 2557. doi:10.1080/01904167.2020.1783303

Olawale, O., Akinyemi, B. A., & Attabo, F. (2020). Optimization of the Mixing Ratio for Particleboard Production from Groundnut Shell and Rice Husk. *Acta Technologica Agriculturae*, 23(4), 168.

Otyama, P. I., Kulkarni, R., Chamberlin, K., Ozias-Akins, P., Chu, Y., Lincoln, L. M., . . . Cannon, E. K. S. (2020). Genotypic Characterization of the U.S. Peanut Core Collection. *G3 (Bethesda, Md.)*, 10(11), 4013-4026. doi:10.1534/g3.120.401306

Peng, Z., Chen, H., Tan, L., Shu, H., Varshney, R. K., Zhou, Z., . . . Wang, J. (2020). Natural Polymorphisms in a Pair of NSP2 Homoeologs Can Cause Loss of Nodulation in Peanut. *Journal of experimental botany*. doi:10.1093/jxb/eraa505

Pilaisangsuee, V., Anuwat, P., Supdensong, K., Lumpa, P., Kongbangkerd, A., & Limmongkon, A. (2020). Enhancement of adaptive response in peanut hairy root by exogenous signalling molecules under cadmium stress. *Journal of Plant Physiology*, 254, N.PAG-N.PAG. doi:10.1016/j.jplph.2020.153278

Pooja, S., Spurthi, N. N., Rakesh, K., Manish, K. P., Namita,

S., Hari, K. S., . . . Rajeev, K. V. (2020). Transcriptome Analysis Identified Coordinated Control of Key Pathways Regulating Cellular Physiology and Metabolism upon *Aspergillus flavus* Infection Resulting in Reduced Aflatoxin Production in Groundnut. *Journal of Fungi*, 6(370), 370-370. doi:10.3390/jof6040370

Premila Narayana, A., Pham, Q., Emmanuel, C. A., Abhishek, S., Huggins Zephaniah, M., Hanumanthu, N., & Marikunte Yanjarappa, S. (2020). Investigation of the Antifungal and Anti-Aflatoxigenic Potential of Plant-Based Essential Oils against *Aspergillus flavus* in Peanuts. *Journal of Fungi*, 6(383), 383-383. doi:10.3390/jof6040383

Qi, H., Zhu, B., Wu, Z., Liang, Y., Li, J., Wang, L., . . . Zhang, L. (2020). Estimation of Peanut Leaf Area Index from Unmanned Aerial Vehicle Multispectral Images. *Sensors (14248220)*, 20(23), 6732-6732. doi:10.3390/s20236732

Qu, C., Wang, Z., Jin, X., Wang, X., & Wang, D. (2020). A moisture content prediction model for deep bed peanut drying using support vector regression. *Journal of Food Process Engineering*, 43(11), 1.

Ren, J., Zhang, H., Shi, X., Ai, X., Dong, J., Zhao, X., . . . Yu, H. (2020). Genome-Wide Identification of Key Candidate microRNAs and Target Genes Associated with Peanut Drought Tolerance. *DNA and cell biology*. doi:10.1089/dna.2020.6245

Ren, X.-L., Han, P., & Meng, Y. (2020). Aflatoxin B1-Induced COX-2 Expression Promotes Mitophagy and Contributes to Lipid Accumulation in Hepatocytes In Vitro and In Vivo. *International Journal of Toxicology (Sage)*, 39(6), 594-604. doi:10.1177/1091581820939081

Ruiter, B., Smith, N. P., Fleming, E., Patil, S. U., Hurlburt, B. K., Maleki, S. J., & Shreffler, W. G. (2020). Peanut protein acts as a Th2 adjuvant by inducing RALDH2 in human antigen-presenting cells. *The Journal of allergy and clinical*

immunology. doi:10.1016/j.jaci.2020.11.047

Sallam, S. M. A., Kholif, A. E., Amin, K. A., El-Din, A. N. M. N., Attia, M. F. A., Matloup, O. H., & Anele, U. Y. (2020). Effects of microbial feed additives on feed utilization and growth performance in growing Barki lambs fed diet based on peanut hay. *Animal Biotechnology*, 31(5), 447-454. doi:10.1080/10495398.2019.1616554

Sangtanoo, P., Srimongkol, P., Saisavoey, T., Reamtong, O., & Karnchanatat, A. (2020). Anti-inflammatory action of two novel peptides derived from peanut worms (*Sipunculus nudus*) in lipopolysaccharide-induced RAW264.7 macrophages. *Food and Function*, 11(1), 552-560.

Shaterian Mohammadi, A., Aminian, H., & Jamshidnia, A. (2020). Effects of smoke produced from smoldering plants on the *Aspergillus flavus* growth and production of aflatoxin in pistachio. *Journal of Food Safety*, 40(6), 1-9. doi:10.1111/jfs.12847

Soni, P., Nayak, S. N., Kumar, R., Pandey, M. K., Singh, N., Sudini, H. K., . . . Varshney, R. K. (2020). Transcriptome Analysis Identified Coordinated Control of Key Pathways Regulating Cellular Physiology and Metabolism upon *Aspergillus flavus* Infection Resulting in Reduced Aflatoxin Production in Groundnut. In (Vol. 6).

Spyridon, A. P., Ângela, F., Sofia, P., Carla, P., Maria Inês, D., Ricardo, C., . . . Lillian, B. (2020). The Sustainable Use of Cotton, Hazelnut and Ground Peanut Waste in Vegetable Crop Production. *SUSTAINABILITY*, 12(8511), 8511-8511. doi:10.3390/su12208511

Srinivasa Rao, M., Rama Rao, C. A., Sreelakshmi, P., Islam, A., Subba Rao, A. V. M., Ravindra Chary, G., & Bhaskar, S. (2020). Pest scenario of *Spodoptera litura* (Fab.) on groundnut under representative concentration pathways (RCPs) based climate change scenarios. *Journal of Thermal Biology*, 94,

N.PAG-N.PAG. doi:10.1016/j.jtherbio.2020.102749

Suganya Devi, K., Srinivasan, P., & Bandhopadhyay, S. (2020). H2K – A robust and optimum approach for detection and classification of groundnut leaf diseases. *Computers & Electronics in Agriculture*, 178, N.PAG-N.PAG. doi:10.1016/j.compag.2020.105749

Sulyman, A. O., Igunnu, A., & Malomo, S. O. (2020). Isolation, purification and characterization of cellulase produced by *Aspergillus niger* cultured on *Arachis hypogaea* shells. *Heliyon*, 6(12), e05668. doi:10.1016/j.heliyon.2020.e05668

Syed, S., Tollamadugu, N. V. K. V. P., & Lian, B. (2020). *Aspergillus* and *Fusarium* control in the early stages of *Arachis hypogaea* (groundnut crop) by plant growth-promoting rhizobacteria (PGPR) consortium. *Microbiological Research*, 240, N.PAG-N.PAG. doi:10.1016/j.micres.2020.126562

Taís, S., Nelson, S., Kennedy, M., Ramon, M., Jair, H., David, B., . . . Márcio, M. (2020). Broadening the Variability for Peanut Breeding with a Wild Species-Derived Induced Allotetraploid. *Agronomy*, 10(1917), 1917-1917. doi:10.3390/agronomy10121917

Tanno, L. K., Demoly, P., & Marseglia, G. L. (2020). Anaphylaxis in children. *Pediatric Allergy & Immunology*, 31, 8-10. doi:10.1111/pai.13336

Tekulu, K., Taye, G., & Assefa, D. (2020). Effect of starter nitrogen and phosphorus fertilizer rates on yield and yield components, grain protein content of groundnut (*Arachis Hypogaea* L.) and residual soil nitrogen content in a semiarid north Ethiopia. *Heliyon*, 6(10), e05101. doi:10.1016/j.heliyon.2020.e05101

Tong, Z. H. U., Beibei, C. J. Q., Menhen, W. U., Xinyi, P., & Yisu, W. (2020). Design and Tests of Mechanical-pneumatic Combined Peanut Precision Seed-meteing Devices. (English).

China Mechanical Engineering, 31(21), 2591.

Wang, M., Strand, M. J., Lanser, B. J., Santos, C., Bendelja, K., Fish, J., . . . Gelfand, E. W. (2020). Expression and activation of the steroidogenic enzyme CYP11A1 is associated with IL-13 production in T cells from peanut allergic children. *PLoS ONE*, 15(6).

Wu, Y., Yu, J., Li, F., Li, J., & Shen, Z. (2020). A Calibration Curve Implanted Enzyme-Linked Immunosorbent Assay for Simultaneously Quantitative Determination of Multiplex Mycotoxins in Cereal Samples, Soybean and Peanut. *Toxins*, 12(11), 718.

Yang, D., Liu, Y., Wang, Y., Gao, F., Zhao, J., Li, Y., & Li, X. (2020). Effects of Soil Tillage, Management Practices, and Mulching Film Application on Soil Health and Peanut Yield in a Continuous Cropping System. *Frontiers in Microbiology*, 11, 570924. doi:10.3389/fmicb.2020.570924

Yang, Q.-Q., Kim, G., Farha, A. K., Luo, Q., & Corke, H. (2020). Phenolic profile, antioxidant and antiproliferative activities of diverse peanut cultivars. *Journal of Food Measurement & Characterization*, 14(5), 2361.

Zhang, R., Song, X., Yu, J., Meng, W., & Li, C. (2020). The research progress of the procyanidins from peanut skin coat. *Food Research and Development*, 41(12), 202-210.

Zhang, W., Chang, X., Wu, Z., Dou, J., Yin, Y., Sun, C., & Wu, W. (2020). Rapid isolation of non-aflatoxigenic *Aspergillus flavus* strains. *World Mycotoxin Journal*, 13(2), 277-286.

Zhang, W., Liu, Y., Liang, B., Zhang, Y., Zhong, X., Luo, X., . . . Chen, K. (2020). Probabilistic risk assessment of dietary exposure to aflatoxin B1 in Guangzhou, China. *Scientific Reports*, 10(5).

Zhang, W., Wu, W., Cai, C., Hu, X., Li, H., Bai, Y., . . . Li,

P. (2020). A sensitive, point-of-care detection of small molecules based on a portable barometer: aflatoxins in agricultural products. *Toxins*, 12(3).

Zhao, K., Zhao, C., Yang, M., & Yin, D. (2020). ZnCl₂ treatment improves nutrient quality and Zn accumulation in peanut seeds and sprouts. *Scientific Reports*, 10(2).

Zheng, J., Wang, H., Li, C., Xin, M., Ye, J., & Wu, X. (2020). Study on the influence of peanut oil quality by ultraviolet LED cold light technology degradation of aflatoxin B₁. *Journal of Food Safety and Quality*, 11(8), 2410-2420.