

Journal Articles – Fall 2019

Abady, S., H. Shimelis and P. Janila. 2019. Farmers' perceived constraints to groundnut production, their variety choice and preferred traits in eastern Ethiopia: implications for drought-tolerance breeding. *Journal of Crop Improvement* 33 (4): 505-521. doi:10.1080/15427528.2019.1625836.

Abady, S., H. Shimelis, P. Janila and J. Mashilo. 2019. Groundnut (*Arachis hypogaea* L.) improvement in sub-Saharan Africa: a review. *Acta Agriculturae Scandinavica: Section B, Soil & Plant Science* 69 (6): 528. doi:10.1080/09064710.2019.1601252.

Aboyeji, C., O. Dunsin, A.O. Adekiya, C. Chinedum, K.O. Suleiman, F.O. Okunlola, C. O Aremu, T. O. Owolabi, and T. A. J. Olofintoye. 2019. Zinc Sulphate and Boron-Based Foliar Fertilizer Effect on Growth, Yield, Minerals, and Heavy Metal Composition of Groundnut (*Arachis hypogaea* L) Grown on an Alfisol. *International Journal of Agronomy*: 1-7. doi:10.1155/2019/5347870.

Alexander, A., V.K. Singh, A. Mishra and B. Jha. 2019. Plant growth promoting rhizobacterium *Stenotrophomonas maltophilia* BJ01 augments endurance against N₂ starvation by modulating physiology and biochemical activities of *Arachis hypogaea*. *PLoS ONE* 14 (9): 1-20. doi:10.1371/journal.pone.0222405.

Bavaro, S.L., A. Orlando, E.d. Angelis, F. Russo and L. Monaci. 2019. Investigation on the allergen profile of the soluble fraction of autoclaved peanuts and its interaction with Caco-2 cells. *Food and Function* 10 (6): 3615-3625.

Bediako, K.A., K. Ofori, S.K. Offei, D. Dzidzienyo, J.Y. Asibuo and R.A. Amoah. 2019. Aflatoxin contamination of groundnut (*Arachis hypogaea* L.): predisposing factors and management interventions. *Food Control* 98: 61-67.

Brandström, J., M. Vetander, A.C. Sundqvist, G. Lilja, S.G.O. Johansson, E. Melén, E. Sverremark-Ekstrom, A. Nopp and C. Nilsson. 2019. Individually dosed omalizumab facilitates peanut oral immunotherapy in peanut allergic adolescents. *Clinical & Experimental Allergy* 49 (10): 1328-1341. doi:10.1111/cea.13469.

Brusca, I., M. Barrale, R. Onida, S.M.l. Chiusa, M. Gjomarkaj and C.G. Uasuf. 2019. The extract, the molecular allergen or both for the in vitro diagnosis of peach and peanut sensitization? *Clinica Chimica Acta* 493: 25-30.

Bublin, M., M. Kostadinova, C. Radauer, E.M. Varga, C. Hafner, K. Schmidthaler, A. Saidova, S. J. Maleki, Z. Szepalusi, T. Eiwegger, and H. Breiteneder. . 2019. Engineering of structural variants of the major peanut allergens Ara h 2 and Ara h 6 for allergen-specific immunotherapy. *Journal of Allergy and Clinical Immunology* 143 (3): 1226-1229.e10.

Cabanillas, B. and N. Novak. 2019. Effects of daily food processing on allergenicity. *Critical Reviews in Food Science and Nutrition* 59 (1): 31-42.

Carlos, B., V. Camilla, H. John, I. Thavone, L. Vanndy, O. Chantha, Q. Wendy, S. Vang, S. Pheng, S. Vorachith, T. Veasna, and E. Phippip. 2019. Effects of Frequency of Irrigation on Dry-Season Furrow-Irrigated Maize and Peanut Production in the Rice-Growing Lowlands of the Lower Mekong Basin. *Agriculture*: (6) 128 pages. doi:10.3390/agriculture9060128.

Casulli, K.E., S. Calhoun and D.W. Schaffner. 2019. Modeling the risk of salmonellosis from consumption of peanuts in the United States. *Journal of Food Protection* 82 (4): 579-588.

Chen, Y., Q. Kong and Y. Liang. 2019. Three newly identified peptides from *Bacillus megaterium* strongly inhibit the growth and aflatoxin B1 production of *Aspergillus flavus*. *Food Control* 95: 41-49.

Cook, Q.S. and E.H. Kim. 2019. Update on peanut allergy: prevention and immunotherapy. *Allergy and Asthma Proceedings* 40 (1): 14-20.

Cossetin, J.F., E. da Silva Brum, R. Casoti, C. Camponogara, R.C. Dornelles, M. Maziero, C. Tatiana de David Antoniazzi, G. C. Guex, A. P. Ramos, F. G. Pintos, A. M. Engelmann, C. Melazzo de Andrade, M. P. Manfron S. M. Oleivera, L. de Freitas Bauermann, M. R. Sagrillo, A. K. Machado, A. R. Soares Santos and G. Trevisan. 2019. Peanut leaf extract has antioxidant and anti-inflammatory activity but no acute toxic effects. *Regulatory Toxicology and Pharmacology* 107. doi:10.1016/j.yrtph.2019.104407.

Danful, R., Y.B. Kassim, D.K. Puzoaa, R. Oteng-Frimpong, M.A. Rasheed, A. Wireko-Kena, and A. Akromah. 2019. Genetics of Stay-Green Trait and Its Association with Leaf Spot Tolerance and Pod Yield in Groundnut. *International Journal of Agronomy*. doi:10.1155/2019/3064026.

Datema, M.R., E. Eller, A.H. Zwinderman, L.K. Poulsen, S.A. Versteeg, R.v. Ree, C. Bindsley-Jensen. 2019. Ratios of specific IgG4 over IgE antibodies do not improve prediction of peanut allergy nor of its severity compared to specific IgE alone. *Clinical and Experimental Allergy* 49 (2): 216-226.

Daudi, H., H. Shimelis, L. Mwadzingeni, M. Laing and P. Okori. 2019. Breeding groundnut for rust resistance: A review. *Legume Research: An International Journal* 42 (3): 291-299. doi:10.18805/LR-416.

David Ferreira Lopes, S., S. Bruna Luísa da, F. Juliana Borba de Moraes, H. Kandy, S. Camila Aparecida Fonseca and M. Stela Basso. 2019. Economic viability of peanut production on leased land in the Jaboticabal region of São Paulo state, Brazil = Viabilidade econômica da produção de amendoim em terra arrendada na região de Jaboticabal, São Paulo, Brasil. *Agro@ambiente* On-line: 142.

doi:10.18227/1982-8470ragro.v13i0.5342.

Desmae, H., P. Janila, P. Okori, M.K. Pandey, B.N. Motagi, E. Monyo, O. Mponda, D. Okello, D. Sako, C. Echeckwu, R. Oteng-Frimpong, A. Miningou, C Ojewo, R. K. Varshney, and B. Morris. 2019. Genetics, genomics and breeding of groundnut (*Arachis hypogaea* L.). *Plant Breeding* 138 (4): 425-444. doi:10.1111/pbr.12645.

Dong, Y., Y. Wan, F. Liu and Y. Zhuge. 2019. Effects of exogenous SA supplied with different approaches on growth, chlorophyll content and antioxidant enzymes of peanut growing on calcareous soil. *Journal of Plant Nutrition* 42 (16): 1869-1883. doi:10.1080/01904167.2019.1648679.

Ferraro, V., S. Zanconato and S. Carraro. 2019. Timing of food introduction and the risk of food allergy. *Nutrients* 11 (5): 1131-1131.

Hazebrouck, S., B. Guillon, E. Paty, S.C. Dreskin, K. Adel-Patient and H. Bernard. 2019. Variable IgE cross-reactivity between peanut 2S-albumins: The case for measuring IgE to both Ara h 2 and Ara h 6. *Clinical & Experimental Allergy* 49 (8): 1107-1115. doi:10.1111/cea.13432.

Hegde, R., B.P. Bhaskar, K.V. Niranjana, S.C. Ramesh Kumar, V. Ramamurthy, S. Srinivas, and S. K. Singh. 2019. Land evaluation for groundnut (*Arachis hypogaea* L.) production in Pulivendula tehsil, Kadapa district, Andhra Pradesh, India. *Legume Research: An International Journal* 42 (3): 326-333. doi:10.18805/LR-3852.

Jayasena, S., S.J. Koppelman, B. Nayak, S.L. Taylor and J.L. Baumert. 2019. Comparison of recovery and immunochemical detection of peanut proteins from differentially roasted peanut flour using ELISA. *Food Chemistry* 292: 32-38. doi:10.1016/j.foodchem.2019.04.026.

Kalaichandran, A., T. Marrs and G. du Toit. 2019. Early

introduction of infant-safe peanut protein to reduce the risk of peanut allergy. *CMAJ: Canadian Medical Association Journal* 191 (29): E816-E816. doi:10.1503/cmaj.181613.

Kokkanti, R.R., V. Hindu, P. Latha, R.P. Vasanthi, P. Sudhakar and R. Usha. 2019. Assessment of genetic variability and molecular characterization of heat stress tolerant genes in *Arachis hypogaea* L. through qRT-PCR. *Biocatalysis and Agricultural Biotechnology* 20: 101242. doi:10.1016/j.bcab.2019.101242.

Koppelman, S.J., A. Peillon, W. Agbotounou, H.A. Sampson and L. Martin. 2019. Epicutaneous immunotherapy for peanut allergy modifies IgG4 responses to major peanut allergens. *Journal of Allergy and Clinical Immunology* 143 (3): 1218-1221.e1214.

Kunst, N.R., H. Lindvik, K.H. Carlsen, G. Håland, E. Jørgensen and K.C.L. Carlsen. 2019. Cost-effectiveness of diagnostic algorithms for peanut allergy in children. *Journal of Allergy and Clinical Immunology* 143: 1243-1246.

Laureth, J.C.U., D. Christ, D. Ganascini and S.R.M. Coelho. 2019. Effect of ozone application on the fungal count and lipid quality of peanut grains. *Journal of Agricultural Science (Toronto)* 11 (3): 271-280.

Li, Y.H., R. Wang, X.H. Sui, E.T. Wang, X.X. Zhang, C.F. Tian, et al. 2019. *Bradyrhizobium nanningense* sp. nov., *Bradyrhizobium guangzhouense* sp. nov. and *Bradyrhizobium zhanjiangense* sp. nov., isolated from effective nodules of peanut in Southeast China. *Systematic and Applied Microbiology* 42 (5). doi:10.1016/j.syapm.2019.126002.

Liu, J., Z. Cai, Y. Liao, L. Zhao, J. Moulin and C. Hartmann. 2019. Validation of a laser based in-line aflatoxin sorting technology in Spanish type raw peanut in factory-scale production conditions. *Journal of Food Safety* 39 (2): e12611-e12611.

Ludueña, L.M., M.S. Anzuay, J.G. Angelini, M. McIntosh, A. Becker, O. Rupp, A. Goesmann, J. Blom, A. Fabra, and T. Taurian. 2019. Genome sequence of the endophytic strain *Enterobacter* sp. J49, a potential biofertilizer for peanut and maize. *Genomics* 111 (4): 913-920. doi:10.1016/j.ygeno.2018.05.021.

Magnusdottir, H., A.G. Vidarsdóttir, B.R. Ludviksson, M. Clausen, S.H. Lund, A.B. Jensen, and S. T. Sigurdardottir. 2019. Ara h 1 and Ara h 6 sensitization causes clinical peanut allergy in Ara h 2-negative individuals. *International Archives of Allergy and Immunology* 178 (1): 66-75.

Min, B.R., A. Frank, N. Gurung, J.H. Lee, J.W. Joo and W. Pacheco. 2019. Peanut skin in diet alters average daily gain, ruminal and blood metabolites, and carcass traits associated with *Haemonchus contortus* infection in meat goats. *Animal Nutrition* 5 (3): 278-285. doi:10.1016/j.aninu.2019.05.006.

Morales-Romero, J., M. Bedolla-Barajas, J.A. Valdez-Soto, T.I. Bedolla-Pulido, M.A. Segura-Delgadillo and A. Bedolla-Pulido. 2019. Anaphylaxis associated with peanuts and nuts in late Mexican adolescents: a population based study. *International Journal of Pediatrics* 7 (5): 9443-9451.

Nilsson, S.F., G. Lilja, H. Järnbert-Pettersson and J. Alm. 2019. Relevance of low specific IgE levels to egg, milk and peanut in infancy. *Clinical and Experimental Allergy* 49 (3): 308-316.

Ojiewo, C., E. Monyo, R.K. Varshney, H. Desmae, P. Janila, P. Okori, M. K Pandey, B. N. Motagi, O. Mponda, D. Okello, D. Sako, C. Echeckwu, R. Oteng-Frimpong, A. Miningou, and B. Morris. 2019. Genetics, genomics and breeding of groundnut (*Arachis hypogaea* L.). *Plant Breeding*: 425 (4). doi:10.1111/pbr.12645.

Orgel, K., J.M. Smeekens, P. Ye, L. Fotsch, R. Guo, D.R. Miller, F. P. M. de Villena, A. W. Burks, M. T. Ferris, and M.

D. Kulis. 2019. Genetic diversity between mouse strains allows identification of the CC027/GeniUnc strain as an orally reactive model of peanut allergy. *Journal of Allergy and Clinical Immunology* 143 (3): 1027-1037.e7.

Oteng-Frimpong, R. and F.D. Dakora. 2019. Multienvironment Testing for Trait Stability and $G \times E$ Interaction on N₂ Fixation, Plant Development, and Water-Use Efficiency of 21 Elite Groundnut (*Arachis hypogaea* L.) Genotypes in the Guinea Savanna. *Frontiers In Plant Science* 10: 1070-1070. doi:10.3389/fpls.2019.01070.

Owusu-Akyaw, M., M.B. Mochiah, J.Y. Asibuo, K. Osei, A. Ibrahim, G.B. Arku, J. N. L. Lamptey, A. A. Danyi, A. Oppong, J. K. Addo, M. K. Boateng, H. K. Adu-Apaah, S. Addy, S. Amoah, S. Osei-Yeboah, M. Abudulai, N. Denwar, J. Naab, G. Mahama, R. Akroma, R. L. Brandenburg, J. E. Bailey, D. L. Jordan, T. H. Williams, D. Hoisington, and J. Rhoads. 2019. Evaluation and release of two peanut cultivars: a case study of partnerships in Ghana. *Peanut Science* 46 (1) : 37-41.

Pan, L., Y. Jiang, W. Zhou, P. Jiang, L. Wu, A. Chen, H. Zhu, J. Sui, J. Wang and L. Qiao. 2019. [Breeding on a new peanut variety Yuhua91 with high oleic acid content]. *Sheng Wu Gong Cheng Xue Bao = Chinese Journal Of Biotechnology* 35 (9): 1698-1706. doi:10.13345/j.cjb.190045.

Reier-Nilsen, T., K.C.L. Carlsen, M.M. Michelsen, S. Drottning, K.H. Carlsen, C. Zhang, M. P. Borres, and G. Haland. 2019. Parent and child perception of quality of life in a randomized controlled peanut oral immunotherapy trial. *Pediatric Allergy & Immunology* 30 (6): 638-645. doi:10.1111/pai.13066.

Reier-Nilsen, T., M.M. Michelsen, K.C.L. Carlsen, K.H. Carlsen, P. Mowinckel, U.C. Nygaard, E. Namork, M. P. Borres, and G. Haland. 2019. Feasibility of desensitizing children highly allergic to peanut by high-dose oral immunotherapy.

Allergy (2) 74: 337-348.

Sezen, S.M., S. Yucel, S. Tekin and M. Yildiz. 2019. Determination of optimum irrigation and effect of deficit irrigation strategies on yield and disease rate of peanut irrigated with drip system in Eastern Mediterranean. *Agricultural Water Management*. doi:10.1016/j.agwat.2019.04.033.

Shaker, M.S. and M.J. Greenhawt. 2019. Analysis of value-based costs of undesignated school stock epinephrine policies for peanut anaphylaxis. *JAMA Pediatrics* 173 (2): 169-175.

Shankar, K., N.S. Kulkarni, S.K. Jayalakshmi and K. Sreeramulu. 2019. Saccharification of the pretreated husks of corn, peanut and coffee cherry by the lignocellulolytic enzymes secreted by *Sphingobacterium* sp. ksn for the production of bioethanol. *Biomass & Bioenergy* 127: 105298-105298. doi:10.1016/j.biombioe.2019.105298.

Somboon, T., P. Chayjarung, V. Pilaisangsuree, P. Keawracha, P. Tonglairoum, A. Kongbangkerd, K. Wongkrajang, and A. Limmongkon. . 2019. Methyl jasmonate and cyclodextrin-mediated defense mechanism and protective effect in response to paraquat-induced stress in peanut hairy root. *Phytochemistry* 163: 11-22. doi:10.1016/j.phytochem.2019.03.017.

Wang, C., X. Qing, M. Yu, Q. Sun, F. Liu, B. Qi, and X. Li. 2019. Production of eicosapentaenoic acid (EPA, 20:5n-3) in transgenic peanut (*Arachis hypogaea* L.) through the alternative $\Delta 8$ -Desaturase pathway. *Molecular Biology Reports* 46 (1): 333-342.

Wang, H.W., K. Sun, Y.X. Guan, M.H. Qiu, L. Zhang and C.C. Dai. 2019. Fungal endophyte *Phomopsis liquidambari* biodegrades soil resveratrol: a potential allelochemical in peanut monocropping systems. *Journal of the Science of Food & Agriculture* 99: 5899-5909. doi:10.1002/jsfa.9865.

Wang, H.-W., K. Sun, Y.-X. Guan, M.-H. Qiu, L. Zhang and C.-C. Dai. 2019. Fungal endophyte *Phomopsis liquidambari* biodegrades soil resveratrol: a potential allelochemical in peanut monocropping systems. *Journal Of The Science Of Food And Agriculture* 99 (13): 5899-5909. doi:10.1002/jsfa.9865.

Wang, X., S.-H. You, K.-W. Lien and M.-P. Ling. 2019. Using disease-burden method to evaluate the strategies for reduction of aflatoxin exposure in peanuts. *Toxicology Letters* 314: 75-81. doi:10.1016/j.toxlet.2019.07.006.

Yuan, D., X. Fang, Y. Liu, J. Kong and Q. Chen. 2019. A hybridization chain reaction coupled with gold nanoparticles for allergen gene detection in peanut, soybean and sesame DNAs. *Analyst* 144 (12): 3886-3891.

Zambrano Ibarra, G., V. Fuentes Aparicio, S. Infante Herrero, M. Blanca and L. Zapatero Remon. 2019. Peanut allergy in Spanish children: comparative profile of peanut allergy versus tolerance. *International Archives of Allergy and Immunology* 178 (4): 370-376.

Zerbato, C., C.E.A. Furlani, M.F. de Oliveira, M.A. Voltarelli, T. de O. Tavares and F.M. Carneiro. 2019. Quality of mechanical peanut sowing and digging using autopilot. *Qualidade da sementeira e do arranquio mecanizados de amendoim com uso do piloto automático*. 23 (8): 630-637. doi:10.1590/1807-1929/agriambi.v23n8p630-637.

Zhang, J., Y. Hong, Z. Cai, B. Huang, J. Wang and Y. Ren. 2019. Simultaneous determination of major peanut allergens Ara h1 and Ara h2 in baked foodstuffs based on their signature peptides using ultra-performance liquid chromatography coupled to tandem mass spectrometry. *Analytical Methods* 11 (12): 1689-1696.

Zhang, T., Y. Shi, Y. Zhao, J. Wang, M. Wang, B. Niu, and Q. Chen. 2019. Different thermal processing effects on peanut allergenicity. *Journal of the Science of Food and Agriculture*

99 (5): 2321-2328.

Zhang, X., X. Ma, L. Ning, Z. Li, K. Zhao, K. Li, J. He, and D. Yin. 2019. Genome-wide identification of circular RNAs in peanut (*Arachis hypogaea* L.). *BMC Genomics* 20 (1): N.PAG-N.PAG. doi:10.1186/s12864-019-6020-7.

Zhao, K., K. Li, L. Ning, J. He, X. Ma, Z. Li, X. Zhang and D. Yon. 2019. Genome-Wide Analysis of the Growth-Regulating Factor Family in Peanut (*Arachis hypogaea* L.). *International Journal of Molecular Sciences* 20 (17): 4120-4120. doi:10.3390/ijms20174120.

Zhong, Y., J. Chew, M. Tan and J. Soh. 2019. Efficacy and safety of oral immunotherapy for peanut allergy: a pilot study in Singaporean children. *Asia Pacific Allergy* 9 (1): e1-e1.