

## Journal articles

1. Phillips, D.A., Black, Y., Reid, R., Murray, N., Kolahie, M., and Goldson-Barnaby, A. (2026), "Beta-carotene Content of *Blighia sapida* and the Detection of 9-octadecenal", West Indian Journal of Engineering, Vol.48, No.2, January, pp.72-77; <https://doi.org/10.47412/FLRB5830>
2. Goldson-Barnaby, Andrea, Ackee and Jamaican Vomiting Sickness, A Historical Perspective, Bull. Hist. Chem., 2025, 50, 127-130. <https://doi.org/10.70359/bhc2025v050p127>
3. Fartoosi, Z., Kolahi, M., Heidarizadeh, F., Goldson-Barnaby A. (2025). The impact of thermal and non-thermal processing on the phytochemical characteristics and nutritional value of *Daucus carota* (carrots). Applied Food Research, 5(1), 100732. [https://authors.elsevier.com/sd/article/S2772-5022\(25\)00719-X](https://authors.elsevier.com/sd/article/S2772-5022(25)00719-X)
4. Bavai, K., Kalahi, M., Baghaeifar, Z. & Goldson-Barnaby, A. (2024). Investigation of biochemical and antioxidant system responses of sugarcane CP48-103 under drought stress induced by polyethylene glycol. Int. J. Environ. Sci. Technol. 1-12. <https://doi.org/10.1007/s13762-024-05981-2>
5. Kolahi, M., Mohajel Kazemi, E., Yazdi, M., Kazemian, M., & Goldson-Barnaby, A. (2023). Investigating the growth characteristics, oxidative stress, and metal absorption of chickpea (*Cicer arietinum* L.) under cadmium stress and *in silico* features of HMAs proteins: Acta Agriculturae Slovenica. 119(3), 1–18. doi: 10.14720/aas.2023.119.3.12555
6. Aimey, Z. Mowatt, K., Gupte, S., Warren, D., Goldson-Barnaby, A., Sadler-McKnight, N., Reid, R. (2023). Characterization of *Blighia sapida* seed extracts. Anais da Academia Brasileira de Ciências. 14;95 (suppl 1): e20201459. doi: 10.1590/0001-3765202320201459. PMID: 37585964.
7. Falloon, O., Graham, L., Sadler-McKnight, N., Goldson-Barnaby, A. (2022). Characterisation, antioxidant activity and chain breaking properties of *Blighia sapida* oil extracts. West Indian Journal of Engineering. 45(1), 22-29. <https://doi.org/10.47412/DDJU6983>
8. Faghani, E., Kolahi, M., Kazemian, M., Goldson-Barnaby, A., Razzaghi, M.H. (2022). Effect of irrigation regimes on starch biosynthesis pathway, cotton (*Gossypium hirsutum*) yield and *in silico* analysis of ADP-glucose-pyrophosphorylase. International Journal of Environmental Science and Technology. 1-22. doi.org/10.1007/s13762-022-04281-x
9. Kolahi, M., Yazdi, M., Mohajel Kazemi, E., Goldson-Barnaby, A., Dodangi, S. (2021). Changes in secondary metabolites and fiber quality of cotton (*Gossypium hirsutum*) seed under consecutive water stress and *in silico* analysis of cellulose synthase and xyloglucan endotransglucosylase. Physiology and Molecular Biology of Plants. 27, 1837-1857. 1-21.
10. Brooks, R., Goldson-Barnaby, A., Bailey, D. (2020). Nutritional and medicinal properties of *Phyllanthus acidus* L. (Jimbilin). International Journal of Fruit Science. 20 (sup3), S1706-S1710. doi.org/10.1080/15538362.2020.1830013.

11. Mohajel Kazemi, E., Kolahi, M., Yazdi, M., Goldson-Barnaby, A. (2020). Anatomic features, tolerance index, secondary metabolites and protein content of chickpea (*Cicer arietinum*) seedlings under cadmium induction and identification of PCS and FC genes. *Physiology and Molecular Biology of Plants*. 26, 1551–1568. doi: 10.1007/s12298-020-00804-3.
12. Wray, D., Goldson-Barnaby, A., Bailey, D. (2020). Ackee (*Blighia sapida* K.D. Koenig) - A review of its economic importance, bioactive components, associated health benefits and commercial applications. *International Journal of Fruit Science*. 20 (sup2), S910-S924. doi: 10.1080/15538362.2020.1772941.
13. Aimey, Z., Goldson-Barnaby, A., Bailey, D. (2020). A review of *Cordia* species found in the Caribbean: *Cordia obliqua* Willd., *Cordia dichotoma* G. Forst and *Cordia collococca* L. *International Journal of Fruit Science*. 1-10. doi: 10.1080/15538362.2020.1772181.
14. Kolahi, M., Mohajel Kazemi, E., Yazdi, M., Goldson-Barnaby, A. (2020). Oxidative stress induced by cadmium in lettuce (*Lactuca sativa* Linn.): Oxidative stress indicators and prediction of their genes. *Plant Physiology and Biochemistry*. 146:71-89. doi: 10.1016/j.plaphy.2019.10.032.
15. Tulloch, A., Goldson-Barnaby, A., Bailey, D., Gupte, S. (2019). *Manilkara zapota* (naseberry): Medicinal properties and food applications. *International Journal of Fruit Science*. 20 (sup2), S1-S7. doi:10.1080/15538362.2019.1687071
16. Wilson, J., Goldson-Barnaby, A., Bailey, D. (2019). *Melicoccus bijugatus* (guinep): Phytochemical properties, associated health benefits and commercial applications. *International Journal of Fruit Science*. 659-666. doi:10.1080/15538362.2019.1669517.
17. Yazdi, M., Kolahi, M., Mohajel Kazemic, E. Goldson-Barnaby, A. (2019). Study of the contamination rate and change in growth features of lettuce (*Lactuca sativa* Linn.) in response to cadmium and a survey of its phytochelatin synthase gene. *Ecotoxicology and Environmental Safety*. 180:295-308. doi: 10.1016/j.ecoenv.2019.04.071.
18. Faghani, E., Kolahi, M., Sohrabi, B., Goldson-Barnaby, A. (2019). Anatomic features and antioxidant activity of cotton seed (*Gossypium hirsutum* L.) genotypes under different irrigation regimes. *Journal of Plant Growth Regulation*. 1-14. doi: 10.1007/s00344-018-9899-3.
19. Blissett, K. A., Goldson-Barnaby, A., Emanuel, M. (2019). Biochemical properties of tree ripened and post-harvest ripened *Mangifera indica* (cv. East Indian). *International Journal of Fruit Science*. 19(4): 452-463. doi: 10.1080/15538362.2019.1596866.
20. Kolahi, M., Faghani, E., Goldson-Barnaby, A., Sohrabi, B. (2019). Physiological traits and anatomic structures of the seed for two short cotton season genotypes (*Gossypium hirsutum* L.) under water stress. *Journal of Integrative Agriculture*. 18:2-11. doi: 10.1016/S2095-3119(19)62619-5.
21. Goldson-Barnaby, A., Clarke, J., Warren, D., Duffus, K. (2018). Free radical scavenging capacity, carotenoid content and NMR characterization of *Blighia sapida* aril oil. *Journal of Lipids*. Volume 2018, Article ID 1762342, 7 pages. doi: 10.1155/2018/1762342.
22. Clarke, J., Goldson-Barnaby, A. and Reid, R. (2018). Lauric acid composition of *Cocos nucifera* (coconut) oil. *Seed Technology*. 39(1):73-79. <https://stjournal.org/volume-39-no-1-2018/>
23. Kohali, M., Yazdi, M., Goldson-Barnaby, A., Tabandeh, MR. (2018). *In silico* prediction, phylogenetic and bioinformatic analysis of *SoPCS* gene, survey of its protein

- characterization and gene expression in response to cadmium in *Saccharum officinarum*. *Ecotoxicology and Environmental Safety*. 163:7-18. doi:10.1016/j.ecoenv.2018.07.032.
24. Goldson-Barnaby, A., Duffus, K., Gupte, S. (2018). Free radical scavenging activity and cytotoxicity assay of *Cissus sicyoides* berries. *Journal of Berry Research*. 8 (2):109-117. doi: 10.3233/JBR-170272.
  25. Downs, F., Goldson-Barnaby, A., Reid, R. (2017). Lipid profile and total phenolics of *Cissus verticillata* seed and leaf extracts. *Seed Technology*. 38(2):141-146. <https://stjournal.org/volume-38-no-2-2017/>
  26. Goldson-Barnaby, A., & Ruth Williams. (2017). Antioxidant properties, fatty acids, mineral content and FTIR characterization of *Blighia sapida* arilli and seeds. *Seed Technology*. 38(1):71-79.
  27. Goldson-Barnaby, A., Reid R., Warren, D. (2017). Phenylalanine ammonia lyase activity, antioxidant properties, fatty acid profile, mineral content and physiochemical analyses of *Cissus sicyoides* berries. *Journal of Berry Research*. 7:117-127. doi: 10.3233/JBR-170148. IF 2.156.
  28. Goldson-Barnaby, A., Reid, R., Warren, D. (2016). Antioxidant activity, total phenolics and fatty acid profile of *Delonix regia*, *Cassia fistula*, *Spathodea campanulata*, *Senna siamea* and *Tibouchina granulosa*. *Journal of Analytical & Pharmaceutical Research*. 3(2):00056. doi: 10.15406/japlr.2016.03.00056. 18 Citations.
  29. Ranger, V., Goldson-Barnaby, A., Williams, R. Bowen-Forbes, C., Rattray, V., James, N., Thompson, I. (2016). Evaluation of the antioxidant properties, fatty acid profile, ash, zinc, crude fiber and pectin content of Jamaican sorrel (*Hibiscus sabdariffa*) and citrus (*Citrus sinensis*) by-products from a local beverage manufacturer. *West Indian Medical Journal*. doi: 10.7727/wimj.2016.227.
  30. Simon-Brown, K., Solval, K.M., Chotiko, A., Alfaro, L., Goldson-Barnaby, A., Thompson, I., Xu, Z. & Sathivel, S. (2016). Micro-encapsulation of ginger (*Zingiber officinale*) extract by spray drying technology. *LWT - Food Science and Technology*. 70:119-125. doi: 10.1016/j.lwt.2016.02.030.
  31. Goldson-Barnaby, A. & Williams, R. (2016). Saponin, antioxidant & free radical scavenging properties of *Blighia sapida* pods. *West Indian Medical Journal*. doi: 10.7727/wimj.2016.045.
  32. Goldson-Barnaby, A., Reid, R., Rattray, V., Williams, R. & Denny, M. (2016). Characterization of Jamaican *Delonix regia* and *Cassia fistula* seed extracts. *Biochemistry Research International*. Article ID 3850102, 8 pages. doi: 10.1155/2016/3850102.
  33. Goldson, A., Bremmer, D., Nelson, K. & Minott, D. (2014). Fat profile of Jamaican ackees, oleic acid content and possible health implications. *West Indian Medical Journal*. 63(1): 9-12. doi: 10.7727/wimj.2013.052.
  34. Goldson, A. & Scaman, C. (2013). Purification and characterization of phenylalanine ammonia lyase from *Trichosporon cutaneum*. *Enzyme Research*. Article ID 670702. doi: 10.1155/2013/670702.
  35. Goldson, A., Lam, M., Scaman, C., Clemens, S. & Kermode, A. (2008). Screening of phenylalanine ammonia lyase in plant tissues, and retention of activity during dehydration. *Journal of the Science of Food and Agriculture*. 88(4): 619-625. doi: 10.1002/jsfa.3126,