

a. Chapters in Book

1. Godbole, A., Wadetwar, R. N., **Lawal, T. O.**, Mahady, G. B., Raut, N. A. (2023). Microbiology of waste. In: Raut, N. A., Kokare, D. M., Bhanvase, B. A., Randive, K. R., Sanjay J. Dhoble, S. J. (eds.) *360-Degree Waste Management*, Volume 1, Elsevier, pages 159 – 184. Paperback ISBN: 9780323907606, eBook ISBN: 9780323910439
2. Godbole, A., Wadetwar, R. N., **Lawal, T. O.**, Mahady, G. B., Raut, N. A. (2023). Microbiology of waste treatment. In: Raut, N. A., Kokare, D. M., Bhanvase, B. A., Randive, K. R., Sanjay J. Dhoble, S. J. (eds.) *360-Degree Waste Management*, Volume 1, Elsevier, pages 185 – 211. Paperback ISBN: 9780323907606, eBook ISBN: 9780323910439
3. Raut, N., Lawal, T. O. and Gail B. Mahady (2022). Good quality and clinical practices for the future development of herbal medicines. In: Mukherjee, P. K. (ed.) *Evidence-Based Validation of Herbal Medicine (Second Edition)*. Elsevier, pages 337-348. ISBN 9780323855426
4. Kane, G. C., Wicks, S. M., Lawal, T. O., Raut, N., Mahady, G. B. (2022). Drug Interactions with Food and Beverages. In: Wilson, T., Temple, N.J., Bray, G.A. (eds.) *Nutrition Guide for Physicians and Related Healthcare Professions*. Springer Nature, pages 283-294). Print ISBN 978-3-030-82514-0. Online ISBN 978-3-030-82515-7
5. **Lawal, T.O.**, Wicks, S.M., Calderon, A.I. and Mahady, G.B. (2019). Bioactive Molecules, Pharmacology and Future Research Trends of *Ganoderma lucidum* as a Cancer Chemotherapeutic Agent. In: Khan M.S.A., Ahmad I., Chattopadhyay D. (eds.) *New Look to Phytomedicine: Advancements in Herbal Products as Novel Drug Leads*. Pages 159-178. ISBN 9780128146194.
6. Wicks, S. M., **Lawal, T. O.**, Raut, N. A., and Mahady, G.B. (2017). Interactions of commonly used prescription drugs with food and beverages. In: Bagchi D. (ed.) *Sustained Energy for Enhanced Human Functions and Activity*. Academic Press (Elsevier), 465-477. ISBN: 978-0-12-805413-0
7. Mahady, G. B., Escalante, G., Mikkilineni, P., Mahady, L. J., **Lawal, T. O.** and Adeniyi, B. A. (2015). Phytotherapies for Infectious Diseases -Are These Really Useful? In Iqbal Ramzan (Ed.) *Phytotherapies: Efficacy, Safety and Regulation*. John Wiley & Sons. 483-503pp. ISBN: 978-1-118-26806-3.
8. **Lawal, T. O.**, Soni, K. K., Adeniyi, B. A., Doyle B. J. and Mahady, G. B. (2013). Botanicals as Adjunct Therapy and Treatment for Multi-Drug-Resistant Staphylococcal infections. In Mahendra Rai and Kateryna Kon (Eds.) *Fighting Multidrug Resistance with Herbal Extracts, Essential Oils and their Components*. Elsevier Publishing. 135-147pp. ISBN: 978-0-12-398539-2.
9. **Lawal, T. O.**, Soni, K. K., Saxena, R. C., Adeniyi, B. A. and Mahady, G. B. (2011). Anti-*Helicobacter pylori* Activities of Compounds of Natural Origin. In Goutam Brahmachari (Ed) *Bioactive Natural Products: Opportunities and Challenges in Medicinal Chemistry*. World Scientific Publishing. 475-497pp. ISBN: 978-981-4335-37-9.

b. Journal Articles

1. Raut, N. A., **Lawal, T. O.**, Adeniyi, B. A., Kanabar, P. N., Maienschein-Cline, M., Los, N. S., Arbieva, Z., Mahady, G. B. (2024). Vitamin A and D3 combinations reduce breast cancer tumor load in a postmenopausal MCF-7 xenograft mouse model in a dose and time-dependent manner. *Functional Foods in Health and Disease* 2024; 14(12): 984-1002

2. Cabada-Aguirre, P., Buenrostro, K., Gabay, K., Ostos, K., Patel, S., **Lawal, T. O.**, Mahady, G. B. (2023). Mexican Traditional Medicines for Women's reproductive health. *Scientific Rep.* 23:2807.
3. Ostos Mendoza, K. C., Garay Buenrostro, K. D., Kanabar, P. N., Maienschein-Cline, M., Los, N. S., Arbieva, Z., Raut, N. A., **Lawal, T. O.**, López, A. M., Cabada-Aguirre, P., Luna-Vital, D. A. and Mahady G. B. (2023). Peonidin-3-O-glucoside and Resveratrol Increase the Viability of Cultured Human hFOB Osteoblasts and Alter the Expression of Genes Associated with Apoptosis, Osteoblast Differentiation and Osteoclastogenesis. *Nutrients*, 15(14): 3233.
4. Kanabar, P. N., Los, N. S., **Lawal, T. O.**, Patel, S. M., Raut, N. A., Maienschein-Cline, M., Arbieva, Z. and Mahady, G. B. (2023). Combinations of vitamin A and D are synergistic in breast cancer cells and alter gene expression in the endoplasmic reticulum stress, unfolded protein and estrogen signaling canonical pathways. *Functional Foods in Health and Disease*, 13(3): 135 – 155
5. **Lawal, T. O.**, Patel, S. R. and Mahady, G. B. (2023). Food and medicinal plants from Nigeria with anti-Helicobacter pylori activities induce apoptosis in colon and gastric cancer cell lines. *Functional Food in Health and Disease*, 13(7): 372-387.
6. Buenrostro, K. D. G., Mendoza K. C. O., Kanabar, P. N., Los, N. S., **Lawal, T. O.**, Patel, S. M., López, A. M., Cabada-Aguirre, P., Raut, N. A., Maienschein-Cline, M., Arbieva, Z. and Mahady, G. B. (2022). Combination of vitamins A, D2 and D3 reduce tumor load and alter the expression of miRNAs that regulate genes involved with apoptosis, tumor suppression, and the epithelial-mesenchymal transition in HCT-116 colon cancer cells. *Functional Foods in Health and Disease*, 12(5): 216-241.
7. Ren, Z., Raut N. A., **Lawal, T. O.**, Patel, S. R., Lee, S. M. and Mahady, G. B. (2021). Peonidin-3-O-glucoside and cyanidin increase osteoblast differentiation and reduce RANKL-induced bone resorption in transgenic medaka. *Phytotherapy Research*, 35:6255–6269.
8. Aizebeoje, C. I., **Lawal, T. O.** and Adeniyi, B. A. (2021). Antibacterial activities of lactic acid bacteria on potential multidrug-resistant pathogens isolated from rabbit. *Archives of Basic and Applied Medicine*, 9:102– 108.
9. Kanabar, P. N., Los, N. S., **Lawal, T. O.**, Patel, S. R., Maienschein-Cline, M., Arbieva, Z. and Mahady, G. B. (2021). Transcriptomic analysis reveals that combinations of vitamins A, D2, and D3 have synergistic effects in HCT-116 colon cancer cells by altering the expression of genes involved in multiple canonical pathways including apoptosis, regulation of the epithelial mesenchymal transition and immunity. *Functional Foods in Health and Disease*, 11(4): 154-178.
10. Ottun, S. O., **Lawal, T. O.** and Adeniyi, B. A. (2021). Antagonistic effects of lactic acid bacteria on multi-drug resistant pathogens from cat faeces. *African Journal of Pharmaceutical Research and Development*, 13(1): 034 – 044.
11. **Lawal, T. O.**, Raut N. A., Patel, S. R. and Mahady G. B. (2021). Extracts of *Anogeissus leiocarpus* and *Dillenia indica* inhibit the growth of MCF-7 Breast cancer and COV434 granulosa tumor cells by inducing apoptosis and autophagy. *Current Bioactive Compounds*, 17(10): 35-48.
12. Soni K. K., Meshram D., **Lawal, T. O.**, Patel, U. and Mahady, G. B. (2021). Fractions of *Boswellia Serrata* suppress LTA4, LTC4, cyclooxygenase-2 activities and mRNA in HL-60 cells and reduce lung inflammation in BALB/c Mice. *Current Drug Discovery*

Technologies, 18(1): 95 -104.

13. Javad, S-R., Bahare, S., Zorica, Z. S-R., Fokou, P. V. T., Marzieh, S-R., Mahady, G. B., Majid, S-R., Masjedi, M-R., **Lawal, T.O.**, Seyed, A. A., Javid, M., Razieh, S-R., Setzer, W. N., Mehdi, S-R., Farzad, K., Atta-ur, R., Choudhary, M. I., Athar, A. and Iriti, M. (2020). Medicinal plants used in the treatment of tuberculosis - Ethnobotanical and ethnopharmacological approaches. *Biotechnology Advances*, 44: 107629
14. Mahady G. B., **Lawal, T. O.**, Patel, S. R., Raut N. A. and Wicks, S. M. (2019). Combinations of vitamins A, D2 and D3 have synergistic effects in gastric and colon cancer cells. *Functional Foods in Health and Disease*, 9(12): 749-771.
15. Agidigbi, T. S., **Lawal, T. O.**, Ajala, T. O., Odeku, O. A. and Adeniyi, B. A. (2019). Antifungal activities of an extract and cream formulation of *Cola millenii* k. Schum. in dermatophyte-infected Wistar rat. *European Journal of Pharmaceutical and Medical Research*, 6(4), 61-69.
16. Raut, N., Wicks, S. M., **Lawal, T. O.**, and Mahady, G. B. (2019). Epigenetic regulation of bone remodeling by natural compounds. *Pharmacological Research*, 147:104350
17. Doyle, B. J., **Lawal, T.O.**, Locklear, T. D., Hernandez, L., Perez, A. L., Patel, U., Patel, S. R. and Mahady, G. B. (2018). Isolation and identification of three new chromones from the leaves of *Pimenta dioica* with cytotoxic, oestrogenic and anti-oestrogenic effects. *Pharmaceutical Biology*, 56(1): 235-244.
18. Soni, K.K., Raut, N., **Lawal, T.O.**, Patel, U. and Mahady, G. B. (2017). A Purified Fraction of *Ocimum tenuiflorum* (L) Inhibits LTC₄, LTA₄ and COX-2 Activities, Down-Regulates *mRNA* Expression in *HL-60* Cells and Reduces Lung Inflammation in an OVA Induced Asthma Model in BALB/c Mice. *Immunology, Endocrine & Metabolic Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry - Immunology, Endocrine and Metabolic Agents)*, 17(2): 115-126.
19. **Lawal, T.O.**, Raut, N., Wicks, S.M. and G.B. Mahady, G.B. (2017). Natural Products and Traditional Medicines for the Treatment of Multidrug Resistant Bacteria. *Medical Research Archives*, 6(1): 1-22.
20. Mebude, O. O., **Lawal, T. O.** and Adeniyi, B. A. (2017). Anti-dermatophytic potential of formulated extract of *Cola nitida* (Vent.) Schott & Endl. (Stem Bark). *Journal of Clinical and Experimental Dermatology Research*, 8(3): 1-7.
21. **Lawal, T. O.**, Bamiduro, T. B., Ofonmbuk, J. O., Elufioye, T. O., Adeniyi, B. A. and Mahady, G. B. (2017). Antibacterial effects of *Anogeissus leiocarpus* (DC.) Guill. & Perr. and *Terminalia glaucescens* Planch. ex Benth. on rapidly growing Mycobacteria species. *African Journal of Microbiology Research*, 11(12): 495-503.
22. Mebude, O. O., Adeniyi, B. A. and **Lawal, T. O.** (2017). *In vitro* antimicrobial activities of ethanol extract of *Distemonanthus benthamianus* (Aayan) Baillon (Fabaceae) on *Streptococcus mutans*. *British Journal of Medicine and Medical Research*, 22(1): 1-8.
23. **Lawal, T. O.**, Wicks, S. L. and Mahady, G. B. (2017). *Ganoderma lucidum* (Lingzhi): The impact of chemistry on therapeutic efficacy in Cancer. *Current Bioactive Compounds*, 13: 28-40.
24. **Lawal, T. O.**, Bamiduro, T. B., Adeniyi, B. A. and Mahady, G. B. (2016). Aqueous extracts of *Anogeissus leiocarpus* (DC.) Guill. & Perr. and *Terminalia glaucescens*

Planch ex Benth. inhibited *Helicobacter pylori*. *Journal of Agriculture, Biology and Healthcare*, 6(24): 15-20.

25. Adeniyi, B. A., Mebude, O. O., **Lawal, T. O.** and Nwanekwu, K. E. (2016). *In-vitro* antifungal activities of *Cola nitida* Schott & Endl. (Sterculiaceae) against five *Candida* species and four dermatophytes. *British Microbiology Research Journal*, 14(2): 1-8.
26. Li, Y., Ma, H., Lu, Y., Tan, B. J., Xu, L., **Lawal, T. O.**, Mahady, G. B. and Liu, D. (2016). Menoprogen, a TCM herbal formula for menopause, increases endogenous E₂ in an aged rat model of menopause by reducing ovarian granulosa cell apoptosis. *BioMed Research International*, 2016: 1-12.
27. **Lawal, T. O.**, Olorunnipa, T. A. and Adeniyi, B. A. (2014). Susceptibility testing and bactericidal activities of *Theobroma cacao* Linn. (Cocoa) on *Helicobacter pylori* in an *in vitro* study. *Journal of Herbal Medicine*, 4: 201-207.
28. Oyedemi, T. O., **Lawal, T. O.** and Adeniyi, B. A. (2014). Effects of *Myristica fragrans* Houtt. Seed (Nutmeg) on *Helicobacter pylori*-induced gastritis in albino rats: *in vitro* and *in vivo* studies. *International Journal of Biological and Chemical Science*, 8(4): 1355-1367.
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31. **Lawal, T. O.**, Mbanu A. E. and Adeniyi B.A. (2014). Inhibitory activities of *Ceiba pentandra* (L.) Gaertn. and *Cordia sebestena* Linn. on selected rapidly growing mycobacteria. *African Journal of Microbiology Research*, 8(24): 2387-2392.
32. Ogudo, B. U., **Lawal, T. O.**, Adeniyi, B. A. (2014). Extracts of *Zingiber officinale* Rosc. (Ginger) and *Curcuma longa* Linn. (Turmeric) Rhizomes inhibited Nontuberculous Mycobacteria *in vitro*. *Journal of Agriculture, Biology and Healthcare*, 4(12): 95-103.
33. Igbokwe, C. O., **Lawal, T. O.** and Adeniyi, B. A. (2014). *In vitro* Anti-mycobacterial Sensitivity and Kill-kinetics of *Allium ascalonicum* L. (whole plant) on Non-tuberculous Mycobacteria Species. *African Journal of Biomedical Research*, 17(3): 93- 99.
34. Igbokwe C. O., **Lawal, T. O.**, Olorunnipa T. A., Adeniyi B. A. and Mahady G. B. (2014). Antimicrobial susceptibility of crude extracts of *Allium ascalonicum* Linn. (Whole plant) and *Gladiolus psittacinus* hook (corm) against five common pathogens: an *in vitro* investigation. *International Journal of Microbiology Research*, 6(1): 510-514.
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37. Oyagbemi, T. O., Ogunleye, A. O., **Lawal, T. O.** and Oyagbemi, A. A. (2013). Antimicrobial activity of *Parquetina nigrescens* on some multidrug resistant pathogens isolated from poultry and cases of otitis media in dogs from Nigeria. *African Journal of*

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 44. Oluwasola, A. O., Okolo, C. A., Otegbayo, J. A., Adeniyi, B. A., Kehinde, A. O., Akere, A., Ola, S. O., **Lawal, T. O.**, Idowu, P. A., Odaibo, G. N. and Lawan, A. I. (2011): Comparative study of methods of diagnosis of *Helicobacter pylori* infection in Ibadan, Nigeria. *Nigerian Journal of Gastroenterology and Hepatology*, 3(1-2): 31-38.
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 50. Soni, K. K., **Lawal, T. O.**, Locklear, T. D. and Mahady, G. B. (2011). Black cohosh for Menopause: Safety and Efficacy Issues and Future Perspectives. *Drug Information Journal*, 45: 37- 44.
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c. Published Conference Abstracts and Proceedings

1. Raut NA, Lawal TO, Wicks SM, Patel S, Mahady GB. Extracts of the rhizomes of *Nymphaea odorata* and its active compound, methyl-gallate, induce apoptosis in gastric and colon cancer cells, and act as HDAC inhibitors. Oral presentation, Oral presentation, 30th International Conference of FFC - 18th International Symposium of ASFFBC. September 23-25, 2022, Department of Food Science and Nutrition, University of the Aegean, Myrina, Lemnos, Greece. Full paper in: Proceedings of the FFH International Conference, FFH Center, San Diego, CA.
2. Raut NA, Lawal TO, Wicks SM, Patel S, Mahady GB. White water lily (*Nymphaea odorata* Aiton, Nymphaeaceae) root extracts and isolated methyl gallate induce apoptosis in MCF-7 Breast Cancer Cells. Oral presentation, 30th International Conference of FFC - 18th International Symposium of ASFFBC. September 23-25, 2022, Department of Food Science and Nutrition, University of the Aegean, Myrina, Lemnos, Greece. Abstract in: Proceedings of the FFH International Conference, FFH Center, San Diego, CA.
3. Raut N, Ren ZT, Patel S, Lawal TO, Mahady GB. Alcohol exposure induces osteoblast apoptosis in human osteoblasts and transgenic osterix/sp7: mCherry medaka by inhibiting Osx/Sp7, Runx2 and SIRT expression. In: Proceedings of the 4th annual CARE meeting, Chicago, IL, May 29, 2021.
4. Mahady, G. B., Raut, N. A., Ren, Z., **Lawal, T. O.**, Lee, S. M., Salamon, I. (2020). Elderberry Extracts increase Rat L6 Myocyte proliferation, reduce Apoptosis and act as HDAC1/SIRT1 Agonists *in vitro*. *The FASEB Journal* 34 (S1), 1-1
5. Mahady, G. B., Raut, N. A., Ren, Z., **Lawal, T. O.**, Lee, S.M. (2020). Blackcurrant

- Extracts increase Myocyte Proliferation and reduce Apoptosis in L6 myocytes and improve Muscle Strength and Memory in Senescence Accelerated Mice. The FASEB Journal 34 (S1), 1-1
6. Mahady, G. B., Raut, N. A., **Lawal, T. O.**, Patel S. (2019). Epigenetic regulation of osteoblastogenesis by blackcurrant fruit extracts *in vitro* and *in vivo*. The FASEB Journal 33 (S1), 471.14-471.14
 7. Mahady, G. B., Raut, N. A., **Lawal, T. O.** (2019). Acai fruit extracts and anthocyanins alter osteoblast proliferation and the expression of HDAC1 and osterix/Sp7 *in vitro* and *in vivo*. The FASEB Journal 33 (S1), 515.14-515.14
 8. Raut N, Lawal TO, Patel S, Mahady GB. Extracts of *Nymphaea odorata* Aiton (Nymphaeaceae) and isolated methyl gallate inhibit the growth of colon cancer HCT116 cells by acting as HDAC inhibitors. In: Proceedings of the International Society of Ethnopharmacology, Manipal India February 2, 2019. Abstract for a Poster Presentation.
 9. Raut N, Lawal TO, Patel S, Mahady GB. Extracts of *Nymphaea odorata* and isolated methylgallate inhibit the growth of colon cancer cell lines HCT-116, by acting as HDAC inhibitors. In: Proceedings of the International Congress on the Science of Botanicals, University of Mississippi, Oxford, MI, April 8, 2019. Abstract for a Poster Presentation.
 10. Raut N, Wicks S, Patel S, Lawal TO, Mahady GB. Black cohosh (*Actaea racemosa* L.) and Triterpenes act as HDAC1/SIRT agonists/antagonists in cultured COV434 ovarian granulosa tumor cells. In: Functional Foods, Bioactive Compounds and Nutraceuticals in Health and Disease, 26th International Conference of the Functional Foods for Health, San Diego, May 8-10, 2019; pp 156-158. Abstract for Poster Presentation.
 11. Raut N, Lawal TO, Ren ZT, Mahady GB. Methyl gallate and *Nymphaea* extracts induce apoptosis in gastric cancer cell lines AGS and NCI-N87. In: Proceedings of the International Congress of the Science of Botanicals, Oxford, MI, April 15, 2018. Abstract for a Poster Presentation.
 12. Raut N, Lawal TO, Ren ZT, Mahady GB. Methyl gallate from *Nymphaea odorata* induce apoptosis in breast cancer cell lines. In: Proceedings of the International Congress of the Science of Botanicals, Oxford, MI, April 15, 2018. Abstract for a Poster Presentation.
 13. Huang S, Raut N, Wicks S, Lawal TO, Patel S, Mahady GB. Resveratrol and dietary anthocyanins enhance osteoblast proliferation and reduce osteoclastogenesis in cultured hFOB human osteoblasts. UIC Student Research Forum, Chicago, IL, April 11, 2018.

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