# Buah John Nelson

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## RESEARCH

| | |
|---|---|
| Interests | Biotechnology |
| Areas | Plant Science · Molecular Biology · Complementary and alternative medicine · Nature and Landscape Conservation · Nutrition and Dietetics |

## RESEARCH SUMMARY

| 28 | 471 | 13 | 15 | 0.19 | 0% |
|---|---|---|---|---|---|
| Publications | Citations | h-index | i10-index | Field-weighted impact | World top 10% |

Counted from the 28 publications listed below, 1996–2026. Field-weighted impact is the mean over the 4 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 4 papers scored for it are among the world's most cited tenth for their field, type and year.

## PUBLICATIONS

### Journal articles 26

1. Jianbin Li, Michael Ackah, Frank Kwarteng Amoako, Justice Kwaku Addo, Xin Jin, Frank Kumi, Vailly Jubline Banzouzi Bouzika, Hao Wei, **John Nelson Buah**, Isaac K.A. Galyuon, Meina Zhu, Mengdi Zhao, Weiguo Zhao (2026). Magnesium-induced transporters remodel the ionome of mulberry leaves by promoting the nitrate reductase (NIA) gene in nitrogen metabolism. *Plant Science*. https://doi.org/10.1016/j.plantsci.2026.113396
2. Rurou Long, Xueying Jin, Michael Ackah, Frank Kwarteng Amoako, Frank Kwekucher Ackah, Frank Kumi, Jianbin Li, Hao Wei, **John Nelson Buah**, Mengdi Zhao, Weiguo Zhao (2026). Transcriptomics and functional characterization identify CYP73A16 as a key regulator of flavonoid biosynthesis in mulberry leaves. *BMC Plant Biology*. https://doi.org/10.1186/s12870-026-08804-3
3. J.W. Tachie-Menson, **J.N. Buah**, M.O. Adu, E. Afutu (2021). Morphological diversity in purple nutsedge from four agro-ecological zones in Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2021.e07661
4. **JN Buah** (2017). Evaluation of spatial arrangement of legumes on weed suppression in cassava production. *ARPN Journal of Agricultural and Biological Science*. https://ir.ucc.edu.gh/server/api/core/bitstreams/12f09924-6a2e-4803-aed6-10ce344d0884/content
5. **J.N and Agu Asare P Buah** (2015). Coconut Water from Fresh and Dry Fruits as an Alternative to BAP in the in vitro Culture of Dwarf Cavendish Banana. Journal of Biological Sciences. *Journal of Biological Sciences*.
6. **John Nelson Buah** (2015). In vitro Growth of Dwarf Cavendish Banana Plantlets in Different Culture Vessels and Light Intensities. *International Journal of Agricultural Research*. https://doi.org/10.3923/ijar.2016.23.31
7. **BUAH JOHN NELSON**, Paul Agu Asare (2015). In vitro growth and multiplication of pineapple under different duration of sterilization and different concentrations of benzylaminopurine and sucrose. *Biotechnology*. https://www.researchgate.net/profile/Paul-Asare-2/publication/273508366_In_vitro_Growth_and_Multiplication_of_Pineapple_under_Different_Duration_of_Sterilization_and_Different_Concentrations_of_Benzylaminopurine_and_Sucrose/links/56e8752108aec65cb45ec728/In-vitro-Growth-and-Multiplication-of-Pineapple-under-Different-Duration-of-Sterilization-and-Different-Concentrations-of-Benzylaminopurine-and-Sucrose.pdf

8. **JN Buah**, JW Tachie-Menson (2015). Suitability of bud manipulation technique as an alternative to tissue culture in the production of suckers for plantains and bananas. *Biotechnology*. https://doi.org/10.5555/20153137516

9. **J 4. Buah** (2015). The Suitability of Bud Manipulation Technique as an Alternative to Tissue Culture in the Production of Suckers for. *Biotechnology*.

10. ABANO ERNEST EKOW, **JN Buah** (2014). Biotechnological approaches to improve nutritional quality and shelf life of fruits and vegetables. *International Journal of Engineering and Technology*. https://ir.ucc.edu.gh/server/api/core/bitstreams/0559960e-3ae2-4d01-b87d-6fb46f1e0ef1/content

11. **JN Buah**, PA Asare, S Acheampong (2014). Optimizing sterilization condition for the initiation of sweet potato (Ipomoea batatas) culture in vitro. *Asian Journal of Biotechnology*. https://doi.org/10.5555/20153328823

12. E Asare-Bediako, **JN Buah** (2013). Prevalence of mistletoe on citrus trees in the Abura-Asebu-Kwamankese district of the Central Region of Ghana. *International Journal of Scientific & Technology Research*. https://www.researchgate.net/profile/Elvis-Asare-Bediako/publication/303254670_Prevalence_of_mistletoe_on_citrus_trees_in_the_Abura-Asebu-Kwamankese_district_of_the_central_region_Of_Ghana/links/57659a0808ae421c4489d3c2/Prevalence-of-mistletoe-on-citrus-trees-in-the-Abura-Asebu-Kwamankese-district-of-the-central-region-Of-Ghana.pdf

13. JBK Asiedu, **JN Buah** (2012). The Landscape Industry and practice in Ghana. *XXVIII International Horticultural Congress on Science and Horticulture for People (IHC2010): International Symposium on 937*. https://www.actahort.org/books/937/937_127.htm

14. JBK Asiedu, E Asare-Bediako, **JN Buah** (2011). Effect of pre-sowing treatments on seed germination and establishment of Bauhinia rufescens. *International Journal of Agricultural Research*. https://www.academia.edu/download/109958918/qredirect.pdf

15. **JN Buah**, JW Tachie Menson, P Asare (2011). Sugarcane juice as an alternative carbon source for in vitro culture of plantains and bananas. *American Journal of Food Technology*. https://www.academia.edu/download/52996372/In_vitro_culture_sugar_cane.pdf

16. **BJ Nelson** (2010). 2010 Index IEEE Nanotechnology Magazine Vol. 4. *Biotechnology*. https://ieeexplore.ieee.org/abstract/document/5642036/

17. **JN Buah**, J Asiedu (2010). The effects of different concentrations cytokinins on the in vitro multiplication of plantain (Musa sp.). *Biotechnology*. https://www.researchgate.net/profile/J-B-Asiedu/publication/49941896_The_Effects_of_Different_Concentrations_Cytokinins_on_the_in_vitro_Multiplication_of_Plantain_Musa_sp/links/568c747908aeb488ea2fd79d/The-Effects-of-Different-Concentrations-Cytokinins-on-the-in-vitro-Multiplication-of-Plantain-Musa-sp.pdf

18. E Asare-Bediako, **JN Buah** (2007). Quality of pineapple fruits as influenced by floral induction in Ghana. *American Journal of Food Technology*. https://www.researchgate.net/profile/Elvis-Asare-Bediako/publication/26629897_Quality_of_Pineapple_Fruits_as_Influenced_by_Floral_Induction_in_Ghana/links/55195f420cf273292e7160b4/Quality-of-Pineapple-Fruits-as-Influenced-by-Floral-Induction-in-Ghana.pdf

19. **JN Buah**, E Asare-Bediako (2006). ISSN 1816-4897© 2006 Academic Journals Inc., USA. *International Journal of Agricultural Research*. https://ir.ucc.edu.gh/server/api/core/bitstreams/aa6d6df2-f247-483b-babc-8cc3aed1a92b/content

20. E Asare-Bediako, **JN Buah** (2006). Quality of pineapple fruits as influenced by Floral Induction in Ghana. *Nigerian Journal of Horticultural Science*. https://www.ajol.info/index.php/njhs/article/view/3394

21. **John N BUAH** (2002). Regulation of Photosynthesis during the Light Period in CAM Plants —Evaluation by a Gas-Phase O2 Electrode and a Compensating Infrared CO2 Analysis …. *Environment Control in Biology*. https://www.jstage.jst.go.jp/article/ecb1963/40/4/40_4_355/_article/-char/ja/

22. **Nelson Buah Jhon** (2000). Effect of various carbon sources and their combinations on in vitro growth and photosynthesis of banana plantlets. *Plant production science*. https://www.jstage.jst.go.jp/article/pps1998/3/4/3_4_392/_article/-char/ja/

23. **John Nelson Buah** (2000). Field performance of in vitro-propagated and sucker-derived plants of banana (Musa spp.). *Plant production science*. https://www.jstage.jst.go.jp/article/pps1998/3/2/3_2_124/_article/-char/ja/

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25. **John Nelson Buah** (1998). Nursery Growth of Banana (Musa spp.) Plantlets Rooted on Auxin-free and Auxin-supplemented Media. *Plant Production Science*. https://doi.org/10.1626/pps.1.207

26. **JN Buah** (1996). The problem of weeds under continuous cropping systems in the scrub and thicket vegetation belt of the Central Region, Ghana. *Ghana Journal of Agricultural Science*. https://www.ajol.info/index.php/gjas/article/download/1995/10692

**Reports** 2

1. **JN Buah**, E Asare-Bediako (2007). Genetic estimates of water stress in tomato (Lycopersicum esculentum. *University of Cape Coast*. https://ir.ucc.edu.gh/items/06fc578c-1553-46d2-923d-f4ed88369391

2. **JN Buah** (1998). Development of an efficient plant regeneration protocol for sweet potato (Ipomoea batatas L.). *Orgz*. https://repository.must.ac.ke/handle/123456789/1187