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RESEARCH

Interests	Human Genetics · Genomics · Birth Defects · Genetic syndromes · Medical Biotechnology
Areas	Genetics · Surgery · Molecular Biology · Rheumatology · Genetics · Public Health, Environmental and Occupational Health

RESEARCH SUMMARY

64	612	12	15	1.45	17%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 64 publications listed below, 2016–2026. Field-weighted impact is the mean over the 47 works scored for it; 1.00 is the world average for works of the same field, type and year. 8 of the 47 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 56

1. Ayamdoo, J. A., Salifu, S. P., **Gowans, L. J. J.**, Twumasi, P. (2026). Additional file 2 of Mitochondria dysfunctional diseases among African population since the discovery of mitochondrial pathologies: a systematic review. *Figshare*. https://doi.org/10.6084/m9.figshare.31166500
2. Samuel Kanor Quaynor, Gideon Okyere Mensah, Tamara Busch, Bruce Tsri, Solomon Obiri-Yeboah, Daniel Kwesi Sabbah, Pius Agbenorku, Peter Donkor, Azeez Butali, **Lord Jephthah Joojo Gowans** (2026). Consensus-based detection of aetiologic copy number variants for syndromic orofacial clefts utilising whole exome sequencing of case parent trios. *BMC Genomic Data*. https://doi.org/10.1186/s12863-026-01466-y
3. **SCGG Lord Jephthah Joojo Gowans** (2026). Functional Consequence of IRF6 Variants in Van der Woude Syndrome. *Genes*. https://www.mdpi.com/2073-4425/17/10/1223
4. J. A. Ayamdoo, S. P. Salifu, **L. J. J. Gowans**, P. Twumasi (2026). Mitochondria dysfunctional diseases among African population since the discovery of mitochondrial pathologies: a systematic review. *Journal of Rare Diseases*. https://doi.org/10.1007/s44162-026-00151-z
5. FA Wireko, M Amoako, R Awerigiya, JKK Asamoah, **LJJ Gowans** (2026). Optimal control and cost-effectiveness analysis of socio-nutritional and behavioral interventions for Tuberculosis management in Ghana. *Results in Control and Optimization*. https://www.sciencedirect.com/science/article/pii/S2666720726000913
6. Adegbayi Adeola Adekunle, Abimbola Oladayo, Bolaji Akala, **Lord Jephthah Joojo Gowans**, Waheed Awotoye, Azeez Alade, Tamara Busch, Emmanuel Aladenika, Veronica Sule, Mekonen A. Eshete, Oluwanifemi Ayelomi, Adejoke Babatunde, Wasiu L. Adeyemo, Olugbemiga M. Ogunlewe, Olawale O. Adamson, Peter A. Mossey, Adebowale A. Adeyemo, Nnenna Mba-Oduwusi, Oluwafemi Adeagbo, Azeez Butali (2026). Understanding and participation in genetics research among Nigerian mothers of children with orofacial cleft: a qualitative study of prior genetic study participants. *BMC Oral Health*. https://doi.org/10.1186/s12903-026-09285-4
7. Emmanuel Temitope Aladenika, Mojisola Olujitan, Tamara Busch, **Lord Gowans**, Wasiu Adeyemo,

Adegbayi Adeola Adekunle, Mekonen Eshete, Oluwafunmi Ajala, Rishitha Gadde, Nina Mba, Azeez Alade, Azeez Butali (2026). Whole Genome Sequencing of Discordant Monozygotic Twins Reveals Regulatory Variants Associated With Nonsyndromic Orofacial Clefts. *Human Mutation*. https://doi.org/10.1155/humu/2471705

8. Edna Tackie, Solomon Obiri-Yeboah, Gideon Okyere Mensah, Tamara D. Busch, Bruce Tsri, Daniel Kwesi Sabbah, Christian Opoku Asamoah, Alexander Acheampong Oti, Gyikua Plange-Rhule, Adebowale A. Adeyemo, Peter Donkor, Azeez Butali, **Lord Jephthah Joojo Gowans** (2026). Whole exome sequencing uncovers genetic syndromes and putative candidate genes underlying orofacial clefts presenting with limb abnormalities in a Sub-Saharan African cohort. *BMC Medical Genomics*. https://doi.org/10.1186/s12920-026-02426-2

9. Essiam, Fiifi Amoako A. P., Amoako, Mary, Owusu, Emmanuel Kwadwo, Ogura, Evans, Hammond, Eunice Akosua Serwaa, Tijani, Ibrahim Ahmed, Wireko, Fredrick Asenso, **Gowans, Lord Jephthah Joojo** (2025). Additional file 1 of Intersecting burdens: oral health, dietary patterns, food security and their impact on cardiometabolic risk and mental health in Ghana. *Figshare*. https://doi.org/10.6084/m9.figshare.30969950.v1

10. Abimbola M. Oladayo, Veronica Sule, Yewande Oshodi, Adegbayi A. Adekunle, Wasiu L. Adeyemo, Oluwagbemiga Ogunlewe, Oluwanifemi Ayelomi, Adejoke Babatunde, Boluwatife Aikomo, Abosede Ajadi, … **Lord J. J Gowans** and 16 others (2025). Assessing the Psychosocial Impacts of Whole-Genome Sequencing Outcomes on Orofacial Cleft Caregivers in Nigeria: A Mixed-Methods Study. *The Cleft Palate-Craniofacial Journal*. https://doi.org/10.1177/10556656251332351

11. Kelsey R. Robinson, Sarah W. Curtis, Justin E. Paschall, Wasiu Lanre Adeyemo, Terri H. Beaty, Azeez Butali, Carmen J. Buxó, David J. Cutler, Michael P. Epstein, **Lord J.J. Gowans**, Jacqueline T. Hecht, Gary M. Shaw, Lina Moreno Uribe, Jeffrey C. Murray, Harrison Brand, Seth M. Weinberg, Mary L. Marazita, Kimberly F. Doheny, Elizabeth J. Leslie-Clarkson (2025). Distinguishing syndromic and nonsyndromic cleft palate through analysis of protein-altering de novo variants in 818 trios. *The American Journal of Human Genetics*. https://doi.org/10.1016/j.ajhg.2025.09.009

12. Fiifi Amoako A. P. Essiam, Mary Amoako, Emmanuel Kwadwo Owusu, Evans Ogura, Eunice Akosua Serwaa Hammond, Ibrahim Ahmed Tijani, Fredrick Asenso Wireko, **Lord Jephthah Joojo Gowans** (2025). Intersecting burdens: oral health, dietary patterns, food security and their impact on cardiometabolic risk and mental health in Ghana. *BMC Nutrition*. https://doi.org/10.1186/s40795-025-01223-x

13. Samuel Atta Tonyemevor, M Amoako, **Lord Jephthah Joojo Gowans**, Alexander Kwarteng, Collins Afriyie Appiah, Solomon Obiri-Yeboah, Daniel Kwesi Sabbah, Peter Donkor (2025). Maternal Dietary Patterns, Food Security and Multivitamin Use as Determinants of Non-Syndromic Orofacial Clefts Risk in Ghana: A Case–Control Study. *Women*. https://doi.org/10.3390/women5030034

14. M Amoako, Samuel Atta Tonyemevor, **Lord Jephthah Joojo Gowans**, Alexander Kwarteng, Collins Afriyie Appiah, Solomon Obiri-Yeboah, Daniel Kwesi Sabbah, Peter Donkor (2025). Maternal plasma folate, nutrients interactions, and the risk of orofacial clefts: A case–control study in a developing country setting. *Nutrition and Health*. https://doi.org/10.1177/02601060251400067

15. Joseph A. Aweeya, **Lord J. J. Gowans**, Engelbert A. Nonterah, Victor Asoala, Patrick Ansah, Michele Ramsay, Godfred Agongo (2025). Novel Association of rs17111557(T) in PCSK9 with Higher Diastolic Blood Pressure in Northern Ghanaian Adults: Candidate Gene Analysis from an AWI-Gen Sub-Study. *BioMed*. https://doi.org/10.3390/biomed5030015

16. Abass Shaibu Danbaki, Christian Opoku Asamoah, Gideon Okyere Mensah, Bruce Tsri, Tamara D. Busch, Fareed Kow Nanse Arthur, Ishmael Kyei, Lawrence Kobina Blay, Samuel Mensah, Adebowale A. Adeyemo, Azeez Butali, Peter Donkor, **Lord Jephthah Joojo Gowans** (2025). Pathogenic FANCC Variants Are Associated with Accessory Breasts in a Sub-Saharan African Multiplex Family. *Current Issues in Molecular Biology*. https://doi.org/10.3390/cimb47110875

17. Elvis Poku-Adusei, Gideon Okyere Mensah, Christian Opoku Asamoah, Bruce Tsri, Hafsa Akeeya, Abass Shaibu Danbaki, Solomon Obiri-Yeboah, Tamara D. Busch, Lawrence Sheringham Borquaye, Peter Donkor, Azeez Butali, **Lord Jephthah Joojo Gowans** (2025). Pharmacogenomics in Orofacial Clefts Care: Insights from Whole-Genome Sequencing of Case-Parents Trios. *Journal of Personalized Medicine*. https://doi.org/

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18. Kelsey Robinson, Sunil K. Singh, Rachel B. Walkup, Dorelle V. Fawwal, Kendra M. Vilfort, Amanda Koloskee, Azeez Fashina, Wasiu Lanre Adeyemo, Terri H. Beaty, Azeez Butali, … **Lord J.J. Gowans** and 19 others (2025). Rare variants in PRKCI cause Van der Woude syndrome and other features of peridermopathy. *The American Journal of Human Genetics*. https://doi.org/10.1016/j.ajhg.2025.08.008

19. Jenna C. Carlson, Xinyi Zhang, Zeynep Erdogan-Yildirim, Terri H. Beaty, Azeez Butali, Carmen J. Buxó, **Lord J.J. Gowans**, Jacqueline T. Hecht, Ross E. Long, Lina Moreno, Jeffrey C. Murray, Ieda M. Orioli, Carmencita Padilla, George L. Wehby, Eleanor Feingold, Elizabeth J. Leslie-Clarkson, Seth M. Weinberg, Mary L. Marazita, John R. Shaffer (2025). Variants in CALD1, ESRP1, and RBFOX1 are associated with orofacial cleft risk. *PLoS Genetics*. https://doi.org/10.1371/journal.pgen.1011581

20. Solomon Obiri-Yeboah, Frank Nketia Boakye, Robert Nii Lamy Larmie, **Lord Jephthah Jojo Gowans**, Wilfred Sam-Awortwi, Tuffour Ampem Gyimah, Jonathan Olesu, Paul Frimpong, Richard Atuwo Ampoh, John Adabie Appiah, James Johnston, John H. Grant, Peter Donkor (2024). Craniofacial Surgery in a Low-Resource Setting: The Successes, Challenges, and Prospects. *FACE*. https://doi.org/10.1177/27325016231220782

21. Fareed K.N. Arthur, **LJJ Gowans** (2024). Damaging Mutations in AFDN Contribute to Risk of Nonsyndromic Cleft Lip With or Without Cleft Palate. *The Cleft Palate Craniofacial Journal*.

22. Kelsey Robinson, Randy Parrish, Wasiu Lanre Adeyemo, Terri H. Beaty, Azeez Butali, Carmen J. Buxó, **Lord J. J. Gowans**, Jacqueline T. Hecht, Lina Moreno Uribe, Jeffrey C. Murray, Gary M. Shaw, Seth M. Weinberg, Harrison Brand, Mary L. Marazita, David J. Cutler, Michael P. Epstein, Jingjing Yang, Elizabeth J. Leslie (2024). Genome-wide study of gene-by-sex interactions identifies risks for cleft palate. *Human Genetics*. https://doi.org/10.1007/s00439-024-02704-y

23. Abimbola M. Oladayo, Sydney Prochaska, Tamara Busch, Wasiu L. Adeyemo, **Lord J. J. Gowans**, Mekonen Eshete, Waheed Awotoye, Veronica Sule, Azeez Alade, Adebowale A. Adeyemo, Peter A. Mossey, Anya Prince, Jeffrey C. Murray, Azeez Butali (2024). Parents and Provider Perspectives on the Return of Genomic Findings for Cleft Families in Africa. *AJOB Empirical Bioethics*. https://doi.org/10.1080/23294515.2024.2302993

24. Abimbola M. Oladayo, Oluwakemi Odukoya, Veronica Sule, Ikenna Molobe, Tamara Busch, Babatunde Akodu, Wasiu L. Adeyemo, **Lord J. J. Gowans**, Mekonen Eshete, Azeez Alade, Waheed Awotoye, Adebowale A. Adeyemo, Peter A. Mossey, Anya E. R. Prince, Jeffrey C. Murray, Azeez Butali (2024). Perceptions and beliefs of community gatekeepers about genomic risk information in African cleft research. *BMC Public Health*. https://doi.org/10.1186/s12889-024-17987-z

25. Azeez Alade, Peter Mossey, Waheed Awotoye, Tamara Busch, Abimbola M. Oladayo, Emmanuel Aladenika, Mojisola Olujitan, Emma Wentworth, Deepti Anand, Thirona Naicker, … **Lord J. J. Gowans** and 11 others (2024). Rare variants analyses suggest novel cleft genes in the African population. *Scientific Reports*. https://doi.org/10.1038/s41598-024-65151-9

26. Azeez Alade, Tabitha Peter, Tamara Busch, Waheed Awotoye, Deepti Anand, Oladayo Abimbola, Emmanuel Aladenika, Mojisola Olujitan, Oscar Rysavy, Phuong Fawng Nguyen, … **Lord J. J. Gowans** and 12 others (2024). Shared genetic risk between major orofacial cleft phenotypes in an African population. *Genetic Epidemiology*. https://doi.org/10.1002/gepi.22564

27. Ama Agyeibea Amuasi, Alexander Oti-Acheampong, Victoria N. A. Boadu, **Lord J. J. Gowans** (2024). The Oral Health Status of Person with Special Needs in Kumasi. *Open Journal of Stomatology*. https://doi.org/10.4236/ojst.2024.141002

28. Esther Afoley Annang, Allen Oppong, Ruth N. A. Prempeh, Esther Agyemang Marfo, Linda A. Abrokwah, Rachel Agyemang, Joseph N. L. Lamptey, Justin Pita, **Lord J. J. Gowans** (2024). Using PCR and RCA Techniques to Investigate the Variants of Cassava Mosaic Virus and Their Distribution in Ghana. *Journal of Agricultural Science*. https://doi.org/10.5539/jas.v16n7p98

29. Alanna Strong, Soumya Rao, Sandra von Hardenberg, Dong Li, Liza L. Cox, Paul C. Lee, Li Q. Zhang, Waheed Awotoye, Tamir Diamond, Jessica Gold, … **Lord Jephthah Joojo Gowans** and 28 others (2023). A mutational hotspot in AMOTL1 defines a new syndrome of orofacial clefting, cardiac anomalies, and tall

stature. *American Journal of Medical Genetics Part A*. https://doi.org/10.1002/ajmg.a.63130

30. Abimbola Oladayo, **Lord Jephthah Joojo Gowans**, Waheed Awotoye, Azeez Alade, Tamara Busch, Thirona Naicker, Mekonen A. Eshete, Wasiu L. Adeyemo, Jacqueline B. Hetmanski, Erliang Zeng and 18 others (2023). Clinically actionable secondary findings in 130 triads from sub-Saharan African families with non-syndromic orofacial clefts. *Molecular Genetics & Genomic Medicine*. https://doi.org/10.1002/mgg3.2237

31. Fareed K.N. Arthur, **LJJ Gowans** (2023). Genomic analyses in African populations identify novel risk loci for cleft palate (vol 28, pg 1038, 2019). *HUMAN MOLECULAR GENETICS*. https://scholar.google.com/scholar?cluster=9116441167120888309&hl=en&oi=scholarr

32. Kelsey Robinson, Trenell J. Mosley, Kenneth S. Rivera-González, Christopher R. Jabbarpour, Sarah W. Curtis, Wasiu Lanre Adeyemo, Terri H. Beaty, Azeez Butali, Carmen J. Buxó, David J. Cutler, … **Lord J.J. Gowans** and 10 others (2023). Trio-based GWAS identifies novel associations and subtype-specific risk factors for cleft palate. *Human Genetics and Genomics Advances*. https://doi.org/10.1016/j.xhgg.2023.100234

33. Waheed Awotoye, Peter A Mossey, Jacqueline B Hetmanski, **Lord J J Gowans**, Mekonen A Eshete, Wasiu L Adeyemo, Azeez Alade, Erliang Zeng, Olawale Adamson, Olutayo James and 31 others (2022). Damaging Mutations in AFDN Contribute to Risk of Nonsyndromic Cleft Lip With or Without Cleft Palate. *The Cleft Palate-Craniofacial Journal*. https://doi.org/10.1177/10556656221135926

34. Azeez Fashina, Tamara Busch, Mary Young, Olawale Adamson, Waheed Awotoye, Azeez Alade, Chinyere Adeleke, Mohaned Hassan, Abimbola M. Oladayo, **Lord J. J. Gowans**, Mekonen Eshete, Thirona Naicker, Joy Olotu, Wasiu L. Adeyemo, Azeez Butali (2022). Investigating the relationship between cancer and orofacial clefts using GWAS significant loci for cancers: A case-control and case-triad study. *Frontiers in Oral Health*. https://doi.org/10.3389/froh.2022.915361

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36. **Lord J. J. Gowans**, Noura Al Dhaheri, Mary Li, Tamara Busch, Solomon Obiri-Yeboah, Alexander A. Oti, Daniel K. Sabbah, Fareed K. N. Arthur, Waheed O. Awotoye, Azeez A. Alade, Peter Twumasi, Pius Agbenorku, Gyikua Plange-Rhule, Thirona Naicker, Peter Donkor, Jeffrey C. Murray, Nara L. M. Sobreira, Azeez Butali (2021). Co-occurrence of orofacial clefts and clubfoot phenotypes in a sub-Saharan African cohort: Whole-exome sequencing implicates multiple syndromes and genes. *Molecular Genetics & Genomic Medicine*. https://doi.org/10.1002/mgg3.1655

37. **Lord J. J. Gowans**, Carissa L. Comnick, Peter A. Mossey, Mekonen A. Eshete, Wasiu L. Adeyemo, Thirona Naicker, Waheed A. Awotoye, Aline Petrin, Chinyere Adeleke, Peter Donkor and 19 others (2021). Genome-Wide Scan for Parent-of-Origin Effects in a sub-Saharan African Cohort With Nonsyndromic Cleft Lip and/or Cleft Palate (CL/P). *The Cleft Palate-Craniofacial Journal*. https://doi.org/10.1177/10556656211036316

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