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All those designated as authors should meet all four criteria for authorship, and all who meet the four criteria should be identified as authors. Those who do not meet all four criteria should be acknowledged. Please insert here the contribution each author made to the manuscript—e.g., literature search, figures, study design, data collection, data analysis, data interpretation, writing etc. If all authors contributed equally, please state this. The information provided here must match the contributors’ statement in the manuscript.

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| Henry Hoseph Morocho Romero: Conceptualization, Investigation, Resources, Writing - original draft, Project administration.  Ricardo Peña Castillo: Conceptualization.  Davies Arturo Morales Pizarro: Conceptualization, Methodology.  Junior Dominguez Chozo: Methodology.  Sandy Vilchez Navarro: Writing - original draft.  Sebastian Casa Niño: Formal analysis, Data curation, Writing - original draft, Visualization, Software.  Gabriela Cárdenas Huamán: Writing - original draft.  Nery Tirabante Terrones: Writing - original draft.  Esdwin Oberti Nuñez Ticliahuanca: Writing - original draft.  Ana Montañez Artica: Writing - original draft.  Leslie Velarde Apaza: Writing - review & editing.  Max Ramirez Rojas: Supervision.  Juancarlos Cruz Luis: Supervision, Funding acquisition  Flavio Lozano Isla: Formal analysis, Data curation, Writing - original draft, Writing - review & editing, Visualization, Software. |

**Conflicts of interest**

Please insert: 1. authors’ conflicts of interest; 2. sources of support for the work, including sponsor names along with explanations of the role (if any) of those sources in study design; collection, analysis, and interpretation of data; writing of the report; and the decision to submit the report for publication. Alternatively, make a statement declaring that the supporting source had no such involvement.

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**I agree with the decision to submit to *agronomy,* the contents of the manuscript, being listed as an author, and the conflicts of interest statement given above. For any original research in the manuscript, I have had access to all the data in the study and accept responsibility for its validity.**

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Flavio Lozano-Isla, the corresponding author of this manuscript, certify that the contributors’ and conflicts of interest statements included in this paper are correct and have been approved by all co-authors.