

Gilbert Nilo Rodriguez Paucar
Academic Department of Agroindustry and Agronomy
Universidad Nacional del Santa



Qualifications

PhD, Ingeniería, Universidad Federico Villarreal

Master, Scientiae, Universidad Nacional Agraria la Molina

Bachelor, Ingeniero en Industrias Alimentarias, Universidad Nacional del Centro del Perú

Bachiller en Ingeniería en Industrias Alimentarias, Universidad Nacional del Centro del Perú

Employment

Academic Department of Agroindustry and Agronomy

Universidad Nacional del Santa

17 Feb 2025 → present

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17 Feb 2025 → present

Research outputs

Valorization of artichoke bract flour as reinforcement in biodegradable cassava starch trays: Physicochemical, structural, and thermo-mechanical properties

Ponce-Ramirez, J. A., Horna-Menacho, N., Rodriguez Paucar, G. N., Barco-Jara, M. S., Villanueva, E., Hurtado-Soria, B. Z., Ortecho-Llanos, R., Arevalo-Oliva, M. D. F., Tapia-Blácido, D. R. & Aguirre, E., Sep 2026, In: Carbohydrate Polymer Technologies and Applications. 15, 101190.

Nutritional and functional properties of defatted avocado (*Persea americana*) pulp cake and its application in the manufacture of cookies

Berru, S. Q., Aguirre, E., García-Siu, M. W., Arias-Nuñuvero, J. O., Córdova-Chang, A., Rodriguez Paucar, G. N. & Villanueva, E., May 2026, In: Food and Humanity. 6, 101032.

Development of Biodegradable Foam Trays from Brewer's Malt Bagasse and Potato Residues from Agricultural Crops

Vásquez-Bacilio, E. F., Mejia-Llontop, C. I., Tirado-Rodríguez, C. E., Arévalo-Oliva, M. D. F., Hurtado-Soria, B. Z., Villanueva, E., Rodriguez Paucar, G. N., Tapia-Blácido, D. R. & Aguirre, E., Aug 2025, In: Polymers. 17, 15, 2146.

Biodegradable trays made from Poraqueiba serícea Tulasne seed starch and Zea Mays cob flour

Huertas, A., Barrios, P., de Fátima Arevalo-Oliva, M., Córdova-Chang, A., Hurtado-Soria, B. Z., Villanueva, E., González-Cabeza, J., Rodríguez, G. & Aguirre, E., Jan 2025, In: Scientia Agropecuaria. 16, 1, p. 17-26 10 p.

Evaluation of *Chenopodium quinoa* (Willdenow) malting parameters on the quality of a red Ale craft beer supplemented with Pilsen base malt and caramel malt

López-Rodríguez, W. E., Ramirez-Gutierrez, J. L., Morales Valdiviezo, M. D., Muñoz-Agreda, J. E., Paredes-Barrios, K. S., Ponce-Ramirez, J. A., Barco-Jara, M. S., de Fatima Arevalo-Oliva, M., Carbajal-Romero, G. P., Domínguez, J., Rodríguez, G. & Aguirre, E., Jan 2025, In: Journal of Cereal Science. 121, 104085.

Impact of Hop Residue Reuse on the Chemical and Sensory Properties of Craft Beer

Mejia-Llontop, C. I., Tirado-Rodríguez, C. E., Acosta-Baca, A., Aguayo-Flores, M., Ascate-Pasos, M., Ayala-Jara, C., Rodriguez, G., Villanueva, E. & Aguirre, E., 26 Dec 2024, In: Resources. 14, 1, 2.

Physico-chemical characteristics of flours obtained from raw, roasted and autoclaved Cucurbita, Passiflora and Annona seeds

Artica Mallqui, L., Baquerizo Canchumanya, M., Rosales Papa, H., Rodríguez, G., Aguirre, E. & Hidalgo, A., Apr 2024, In: International Journal of Food Science and Technology. 59, 4, p. 2318-2326 9 p.

Biodegradable trays based on Manihot esculenta Crantz starch and Zea mays husk flour

Aguirre, E., Domínguez, J., Villanueva, E., Ponce-Ramírez, J. A., de Fátima Arevalo-Oliva, M., Siche, R., González-Cabeza, J. & Rodríguez, G., Sep 2023, In: Food Packaging and Shelf Life. 38, 101129.

Economic valuation of the ecosystem of the high Andean hydrographic basin tributary of the Chumbao River, through multicriteria analysis

Barrial-Lujan, A. I., Rodríguez, G., Huamán-Carrión, M. L., Espinoza-Montes, F., Barrial-Acosta, D., Delgado Laime, M. C., Arevalo-Quijano, J. C., Castro-Paniagua, W. G., Barrial-Lujan, C. & Reynoso-Canicani, D. D., 2023, In: Brazilian Journal of Biology. 83, e277697.

Modification ω -6/ ω -3 ratio and increase of the shelf life of anchovy oil (Engraulis ringens) with addition of olive oil (Olea europaea)

Alonso, F., Chuqui, A., Rodríguez, G., Aguirre, E., Villanueva, E. & Hidalgo, A., 2023, In: OCL - Oilseeds and Fats, Crops and Lipids. 30, 2-3, 1.

Alkaloid content and taste profile assessed by electronic tongue of Lupinus albus seeds debittered by different methods

Estivi, L., Buratti, S., Fusi, D., Benedetti, S., Rodríguez, G., Brandolini, A. & Hidalgo, A., Dec 2022, In: Journal of Food Composition and Analysis. 114, 104810.

Modification of the Nutritional Quality and Oxidative Stability of Lupin (Lupinus mutabilis Sweet) and Sacha Inchi (Plukenetia volubilis L.) Oil Blends

Rodríguez, G., Aguirre, E., Córdova-Chang, A., Muñoz-Saenz, J. C., Baquerizo, M., Brandolini, A., Villanueva, E. & Hidalgo, A., Nov 2022, In: Molecules. 27, 21, 7315.

Physico-chemical characteristics and oxidative stability of oils from different Peruvian castor bean ecotypes

Huaman, L., Huincho, S., Aguirre, E., Rodríguez, G., Brandolini, A. & Hidalgo, A., 1 Jan 2022, In: Grasas y Aceites. 73, 1, e445.

Analysis of the Relationship of Systemic Lupus Erythematosus with exogenous factors in Peru

Quijano, S. A. C., Melgarejo, M. M., Rodríguez, G., Saenz, D. M. M. & Saenz, J. C. M., 12 Nov 2021, *Proceedings of 2021 4th International Conference on Digital Medicine and Image Processing, DMIP 2021*. Association for Computing Machinery, p. 72-76 5 p. (ACM International Conference Proceeding Series).

Changes in stability, tocopherols, fatty acids and antioxidant capacity of sacha inchi (Plukenetia volubilis) oil during French fries deep-frying

Rodríguez, G., Squeo, G., Estivi, L., Quezada Berru, S., Buleje, D., Caponio, F., Brandolini, A. & Hidalgo, A., 15 Mar 2021, In: Food Chemistry. 340, 127942.

Ultrasound-assisted extraction of polyphenols from avocado residues: Modeling and optimization using response surface methodology and artificial neural networks

Monzón, L., Becerra, G., Aguirre, E., Rodríguez, G. & Villanueva, E., 9 Feb 2021, In: Scientia Agropecuaria. 12, 1, p. 33-40 8 p.

Incorporation of chia seeds (Salvia hispanica L.) in cereal flour mixtures: Rheology and quality of sliced bread

Aguirre, E., Rodríguez, G., León-López, A., Urbina-Castillo, K. & Villanueva, E., 1 Jan 2021, In: DYNA (Colombia). 88, 216, p. 109-116 8 p.

Comparison of the hydrocolloids Nostoc commune and Nostoc sphaericum: Drying, spectroscopy, rheology and application in nectar

Torres-Maza, A., Yupanqui-Bacilio, C., Castro, V., Aguirre, E., Villanueva, E. & Rodríguez, G., Dec 2020, In: Scientia Agropecuaria. 11, 4, p. 583-589 7 p.

Oxidative Stability of Chia (*Salvia hispanica* L.) and Sesame (*Sesamum indicum* L.) Oil Blends

Rodríguez, G., Villanueva, E., Cortez, D., Sanchez, E., Aguirre, E. & Hidalgo, A., 1 Jul 2020, In: JAOCS, Journal of the American Oil Chemists' Society. 97, 7, p. 729-735 7 p.