

# Rosa Paula Cuevas, PhD

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## PUBLICATIONS

- Cuevas, R. P., C. J. Domingo, N. Sreenivasulu. 2018. Multivariate-based classification of predicting cooking quality ideotypes in indica germplasm. *Rice* 11: 56.
- Misra, G., S. Badoni, C.J. Domingo, R.P. Cuevas, C. Llorente, E.G.N. Mbanjo, N. Sreenivasulu. 2018. Deciphering the genetic architecture of cooked rice texture. *Frontiers in Plant Science*. DOI: 10.3389/fpls.2018.01405
- Cuevas, R. P., A. de Guia, M. Demont. 2017. Developing a framework of gastronomic systems research to unravel drivers of food choice. *International Journal of Gastronomy and Food Science* 9: 88–99.
- Cuevas, R. P., V. O. Pede, J. McKinley, O. Velarde, M. Demont. 2016. Rice grain quality and consumer preferences: A case study of two rural towns in the Philippines. *PLOS One* 11(3): e0150345.
- Custodio, M. C., M. Demont, A. G. Laborte, C. Diaz, J. Ynion, R. Islam, R. P. Cuevas, N. C. Paguirigan. 2016. Rapid Value Chain Assessment and Rice Preferences of Consumers, Farmers, and Other Rice Value Chain Actors in Bangladesh. TRB Report. Los Baños, Philippines: International Rice Research Institute.
- Cuevas, R. P., M. Demont. 2015. Rice: An international staple. *SansRival* 5 (3): 12–13.
- Anacleto, R., R. P. Cuevas, R. Jimenez, C. Llorente, E. Nissila, N. Sreenivasulu. 2015. Prospects of breeding high-quality rice using post-genomic tools. *Theoretical and Applied Genetics* 128 (8): 1449–1466.
- Sreenivasulu, N., V. M. Butardo, G. Misra, R. P. Cuevas, R. Anacleto, P. B. Kavi Kishor. 2015. Designing climate-resilient rice with ideal grain quality suited for high-temperature stress. *Journal of Experimental Botany*. 66 (7): 1737–1748.
- Butardo, V. M., V. D. Daygon, M. L. Colgrave, P. M. Campbell, A. P. Resurreccion, R. P. Cuevas, S. A. Jobling, I. Tetlow, S. Rahman, M. K. Morell, M. A. Fitzgerald. 2012. Biomolecular analysis of starch and starch granule proteins in the high-amylose rice mutant Goami 2. *Journal of Agricultural and Food Chemistry*. 60 (46): 11576–11585.
- Cuevas, R. P., M. A. Fitzgerald. 2012. Genetic Diversity of Rice Grain Quality. In: *Genetic Diversity in Plants*. Rijeka: InTech. pp. 285–310.
- Boualaphanh, C., M. Calingacion, R. P. Cuevas, D. Jothityangkoon, J. Sanitchon, M. A. Fitzgerald. 2011. Yield and quality of traditional and improved Lao varieties of rice. *ScienceAsia* 37: 89–97.
- Tran, N. A., V. D. Daygon, A. P. Resurreccion, R. P. Cuevas, H. M. Corpuz, M. A. Fitzgerald. 2011. A single nucleotide polymorphism in the Waxy gene explains a significant component of gel consistency. *Theoretical and Applied Genetics* 123(4): 519–525.
- Cuevas, R. P., V. D. Daygon, M. K. Morell, R. G. Gilbert, M. A. Fitzgerald. 2010. Using chain-length distributions to diagnose genetic diversity in starch biosynthesis. *Carbohydrate Polymers* 81(1): 120–127.
- Cuevas, R. P., J. Peate, M. A. Fitzgerald, R. G. Gilbert. 2010. Structural differences between hot-water-soluble and hot-water-insoluble fractions of starch in waxy rice (*Oryza sativa* L.). *Carbohydrate Polymers* 81: 524–532.
- Cuevas, R. P., V. D. Daygon, H. M. Corpuz, R. Reinke, D. L. E. Waters, M. A. Fitzgerald. 2010. Melting the secrets of gelatinization temperature. *Functional Plant Biology* 37(5): 439–447.
- Cuevas, R. P., M. A. Fitzgerald. 2007. Linking starch structure to rice cooking quality. *IREC Farmers' Newsletter* 177: 16–17.
- Fukuta, Y., E. Araki, L. Ebron, R. P. Cuevas, D. Mercado-Escueta, G. S. Khush, J. E. Sheehy, H. Tsunematsu, H. Kato. 2006. Identification of low tiller gene in two rice varieties, Aikawa 1 and Shuho of rice (*Oryza sativa* L.). *JIRCAS Working Rep.* 46: 86–92.

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## PAPERS UNDER REVIEW

- Custodio, M. C., R. P. Cuevas, J. Ynion, A. Laborte, L. Velasco, M. Demont. Under review. Rice quality: From consumers to genetics.
- Anacleto, R., S. Badoni, S. Parween, V. M. Butardo Jr., G. Misra, R. P. Cuevas, M. Kuhlmann, A. R. Bird, M. K. Morell, N. Sreenivasulu. under review. Integrating a genome-wide association study with a large-scale transcriptome analysis to predict genetic regions influencing the glycaemic index in rice.
- Molina, L., J. R. Lapis, N. Sreenivasulu, R. P. Cuevas. Under review. Determination of cadmium concentration in milled and brown rice grains using Graphite Furnace Atomic Absorption Spectrometry. (book chapter)
- Santos, M., R. P. Cuevas, N. Sreenivasulu, L. Molina. Under review. Measurement of rice grain dimensions and chalkiness, and rice grain elongation using image analysis. (book chapter)
- Molina, L., J. R. Lapis, N. Sreenivasulu, R. P. Cuevas. Under review. Determination of macronutrient and micronutrient content in rice grains using inductively coupled plasma- Optical emission spectrometry (ICP-OES). (book chapter)
- Lapis, J. R., N. Sreenivasulu, R. P. Cuevas, L. Molina. Under review. Measuring head rice recovery in rice. (book chapter)
- Jimenez, R., L. Molina, I. Zarei, J. R. Lapis, R. Chavez, R. P. Cuevas, N. Sreenivasulu. Under review. Method development of near-infrared spectroscopy approaches for non- destructive and rapid estimation of total protein in brown rice flour. (book chapter)
- Molina, L., R. Jimenez, N. Sreenivasulu, R. P. Cuevas. Under review. Multi-dimensional cooking quality classification using routine quality evaluation methods. (book chapter)
- Cuevas, R. P., P. Takhar, N. Sreenivasulu. Under review. Characterisation of mechanical texture attributes and viscoelastic properties of cooked milled rice by texture profile analyses and rheometry. (book chapter)

## TECHNICAL PRESENTATIONS

- Cuevas, R. P., M. C. Custodio, J. Ynion, A. Samaddar, S. K. Mohanty, M. Demont. 2018. We are what we eat: Understanding the drivers of food choice and nutritional outcomes in eastern India from a gastronomic systems perspective. 3rd Agriculture, Nutrition and Health Academy Week, Accra (Ghana).
- Cuevas, R. P., A. de Guia, M. Demont. 2018. Consumer valuation of cultural heritage: Estimating the value of Cordilleran "heirloom rice" through the gastronomic systems research (GSR) approach. Food and Feed Technology Center-Kasetsart University International Seminar on Promoting Rice Farmers' Market through Value-adding Activities, Bangkok (Thailand).
- Cuevas, R. P. 2018. Ensuring sustainability through rice research for development in the Philippines. Ateneo Project for Asian and International Relations National Conference, Quezon City (Philippines).
- Demont, M., R. P. Cuevas, M. C. Custodio, A. Samaddar, S. K. Mohanty, J. Ynion. 2017. Improving nutrition through gastronomic systems research. FAO-RAP "Asia and the Pacific Symposium on Sustainable Food Systems for Healthy Diets and Improved Nutrition", Bangkok (Thailand).
- Cuevas, R. P. 2017. Cooking Specialty Rice: Recipes and Kakanins. PhilRice Quarterly Seminar Series, Los Baños (Philippines).
- Capistrano, P. C., R. P. Cuevas, R. A. Reaño, D. O. Manzanilla, M. T. Wanawan, V. A. Tapat, A. E. Cope, C. M. Vera Cruz. 2017. Diversity analysis of farmer-grown heirloom and traditional rice varieties in five provinces of the Philippines. National Biotechnology Week, Muñoz (Philippines).
- Cuevas, R. P. 2016. Why do we need to understand rice grain quality? Seminar on Cereal Grain Products: Importance of Assessing Its Quality, Polytechnic University of the Philippines, Manila (Philippines).
- Cuevas, R. P. 2016. In pursuit of the perfect rice variety. 2016 Research Fortnight, University of Santo Tomas, Manila (Philippines).
- Cuevas, R. P., C. J. Domingo, R. Anacleto, L. Samadio, N. Sreenivasulu. 2015. Exploring the diversity of rice quality through sensory evaluation. Nestlé Conference, Lausanne (Switzerland).
- Cuevas, R. P. 2013. Sensory evaluation: It's more than a taste test. IRRI Filipino Scientists Association Seminar Series, Los Baños (Philippines).
- Cuevas, R. P. 2013. Overcoming the "wall" of rice eating quality, one taste test at a time. IRRI International Women's Day 2013 celebration, Los Baños (Philippines).
- Cuevas, R.P. 2012. Grain quality evaluation approaches as tools in rice breeding. Mars Lunch & Learn, Los Angeles (USA).
- Concepcion, J. C., R. P. Cuevas, A. Madrid, Jr., T. Atienza, R. Jimenez, A. P. Resurreccion, M.A. Fitzgerald. 2012. Connecting the dots from amylose content to cooked rice texture. International Young Scientists Conference, Los Baños (Philippines).
- Cuevas, R. P., L. Quiatchon, M. A. Fitzgerald. 2011. Effect of nitrogen nutrition on quality and consumer perception of three popular rice varieties and a low-chalk line. International Network for Quality Rice meeting, Bangkok (Thailand).
- Cuevas, R. P., R. Jimenez, A. P. Resurreccion, M. A. Fitzgerald. 2011. Where does amylose end and amylopectin begin? Philippine Chemical Congress, Cebu City (Philippines).
- Cuevas, R. P., M. A. Fitzgerald, R. G. Gilbert. 2010. A new fraction of starch that helps explain eating quality in rice (*Oryza sativa* L.), International Rice Congress, Hanoi (Vietnam).
- Peate, J., R. P. Cuevas, T. Witt, R. Cave, M. J. Gidley, M. A. Fitzgerald, S. Seabrook, R. G. Gilbert. 2009. Useful information from size separation data for branched polymers. Fourth International Symposium on the Separation and Characterization of Natural and Synthetic Macromolecules, Amsterdam (Netherlands).
- Cuevas, R. P., J. Peate, M. Gaborieau, R. G. Gilbert, M. A. Fitzgerald. 2008. Structural differences between two fractions of starch from waxy rice (*Oryza sativa* L.). AACC International Annual Meeting, Honolulu (USA).
- Cuevas, R. P., M. A. Fitzgerald. 2008. Hot-water soluble component of starch contributes to RVA peak viscosity. Starch: 4th International Meeting on Starch Structure and Functionality, Nottingham (United Kingdom).
- Cuevas, R. P., M. A. Fitzgerald, R. G. Gilbert. 2007. Cooking properties of the starch granule. International Network for Quality Rice meeting, Los Baños (Philippines).

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## **PRESENTATIONS TO NON-TECHNICAL AUDIENCES**

- Cuevas, R.P. 2015. Active citizenship and rice science. VSO Bahaginan's Engaging Youth as Active Citizens, Mandaluyong City (Philippines).
- Cuevas, R. P. 2014. Rice: Inspiring artists and scientists. IRRI symposium "Si Manansala at ang Masaganang Ani", Los Baños (Philippines).
- Cuevas, R. P. 2014. The search for the perfect rice variety. Asia Society HK Symposium "In a Grain of Rice: Food and Culture for South and Southeast Asia", Hong Kong (China).
- Cuevas, R. P. 2013. Much ado about rice grain quality. Megaworld International Rice Festival, Quezon City (Philippines).