

**STANLEY OMAR PB. SAMONTE, PH.D.**

Associate Professor in Hybrid Rice Breeding  
Texas A&M AgriLife Research Center  
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**PROFESSIONAL PREPARATION:**

Ph.D. in Plant Breeding, Texas A&M University, College Station, TX 77843, 1999.  
M.S in Plant Breeding, Minor in Plant Pathology, University of the Philippines at Los Baños (UPLB), 1990.  
B.S. in Agriculture (cum laude), Major in Agronomy, Field of Specialization in Plant Breeding, UPLB, 1985.

**POSITIONS/EMPLOYMENT:**

09/2017 to Present	Associate Professor in Hybrid Rice Breeding, Texas A&M AgriLife Research Center, Beaumont, TX
02/2012 to 08/2017	Plant Breeder, Rice Experiment Station, California Cooperative Rice Research Foundation, Inc., Biggs, CA
12/2007 to 01/2012	Associate Research Scientist, Texas A&M AgriLife Research Center, Beaumont, TX
12/2003 to 11/2007	Postdoctoral Plant Breeder, Texas A&M AgriLife Research Center, Beaumont, TX
07/1991 to 08/2003	Assistant Professor, UPLB, Philippines
08/1997 to 02/1998	Graduate Research Assistant, Department of Entomology, Texas A&M University, College Station, Texas
07/1985 to 06/1991	Instructor, University of the Philippines at Los Baños (UPLB), Philippines

**HYBRID RICE BREEDING PROGRAM OVERVIEW:**

The objectives of our hybrid rice breeding program are: to develop elite male-sterile and restorer lines, and hybrid varieties that have high and stable grain yield and are competitive with existing commercial hybrids; and to develop hybrid and inbred lines that have high grain quality (high head rice and low chalky grain percentages) and tolerance or resistance to low temperature (high seedling vigor), pathogen and insect stresses.

General approaches, studies, or tools that are being integrated and applied to attain breeding objectives include (but not limited to):

- Conventional breeding (using pedigree and mutation breeding for inbred rice, and cytoplasmic male sterile and thermosensitive genetic male sterile systems for hybrid rice) and advanced phenotyping of yield-related and grain quality traits;
- Ideal plant type breeding and model-assisted selection by selecting for phenotypic traits recommended by the Rice Cultivar Selection Program developed at Texas A&M AgriLife Research;
- Combining ability studies, heterotic group development, and yield trials to identify parents and hybrids that maximize heterosis; and
- DNA marker, genomic selection, and gene editing to improve efficiency in the development and selection of lines possessing desirable genes or traits.

## PUBLICATIONS AND PATENTS (SELECTED)

- Jodari, F., V. C. Andaya, K. S. McKenzie, and S. O. PB. Samonte. 2018. Rice cultivar L-207. US Patent 9955646. Date issued: May 1, 2018.
- Samonte, S. O. PB., V. C. Andaya, K. S. McKenzie, and F. Jodari. 2017. Rice cultivar Calmochi-203, US Patent 9629324 B1. Date issued: April 25, 2017.
- Jodari, F., V. C. Andaya, K. S. McKenzie, and S. O. PB. Samonte, 2016. Rice cultivar A-202. US Patent 9338992 B2. Date issued: May 17, 2016.
- Andaya, V. C., K. S. McKenzie, S. O. PB. Samonte, and F. Jodari. 2015. Rice cultivar M-209. US Patent 9693520 B1. Date issued: July 4, 2017.
- McKenzie K. S., V. C. Andaya, F. Jodari, S. O. PB Samonte, J. J. Oster, and C. B. Andaya. 2015. Rice breeding at the California rice experiment station. *SABRAO J.* 47(2):1-13.
- McKenzie, K. S., V. C. Andaya, F. Jodari, S. O. Samonte, J. J. Oster, B. A. Linquist, L. A. Espino, R. G. Mutters, M. M. Leinfelder-Miles, R. L. Wennig, and J. R. Stogsdill. 2016. Characteristics of public California rice varieties. Agronomy fact sheet series 2016-4, University of California Cooperative Extension, University of California, Davis, Department of Plant Sciences. Available online at <http://rice.ucanr.edu/files/234722.pdf>.
- Tabien, R. E., S. O. PB. Samonte, L. T. Wilson, C. L. Harper, J. C. Medley, and P. Frank. 2015. Development and registration of 'Colorado', A high-yielding rice cultivar. *J. of Plant Registrations* 9(1): 60-66.
- Samonte, S. O. PB., R. E. Tabien, L. T. Wilson. 2013. Parental selection in rice cultivar improvement. *Rice Science* 20(1): 45-51.
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- Tabien, R. E., S. O. PB. Samonte, and A. M. McClung. 2008. Forty-eight years of rice improvement in Texas since the release of cultivar Bluebonnet in 1944. *Crop Science* 48(6): 2097-2106.
- Samonte, S. O. PB., L. T. Wilson, R. E. Tabien, and A. M. McClung. 2008. Use of gross income as a measure of productivity in rice breeding. *Canadian Journal of Plant Science* 8(5): 1015-1022.
- Samonte, S. O. PB., L. T. Wilson, J. C. Medley, S. R. M. Pinson, A. M. McClung, and J. S. Lales. 2006. Nitrogen utilization efficiency: Relationships with grain yield, grain protein, and yield-related traits in rice. *Agronomy Journal* 98 (1): 168-176.
- Samonte, S. O. PB., L. T. Wilson, and R. E. Tabien. 2006. Maximum node production rate and main culm node number contributions to yield and yield-related traits in rice. *Field Crops Research* 96 (2-3): 313-319.
- Samonte, S. O. PB., L. T. Wilson, A. M. McClung, and J. C. Medley. 2005. Targeting cultivars onto rice growing environments using AMMI and SREG GGE biplot analyses. *Crop Science* 45 (6): 2414-2424.
- Samonte, S. O. PB., L. T. Wilson, A. M. McClung, and L. Tarpley. 2001. Seasonal dynamics of nonstructural carbohydrate partitioning in fifteen diverse rice (*Oryza sativa* L.) genotypes. *Crop Science* 41 (3): 902-909.
- Samonte, S. O. PB., L. T. Wilson, and A. M. McClung. 1998. Path analyses of yield and yield-related traits of fifteen diverse rice genotypes. *Crop Science* 38 (5): 1130-1136.