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Integrating quantitative genetics with molecular genetics in order to understand crop genetic architecture to increase the efficiency of selection in plant breeding program.

Research Programs: Cassava Breeding

In charge of cassava breeding program of the Department of Agronomy to identify desirable traits from cassava germplasm and to develop new varieties with high yield and starch content including other good characteristics.

Network & Collaboration:

- The International Center for Tropical Agriculture (CIAT)
- University of Wisconsin-Madison , U.S.A
- Asia Cassava Breeding Network (ACB-Net)



Publications:

- Hernan Ceballos, Chareinsuk Rojanaridpiched, Chalernpol Phumichai, Luis A. Becerra, Piya Kittipadukul, Carlos Iglesias, and Vernon E. Gracen. 2020. Excellence in Cassava Breeding: Perspectives for the Future. *Crop Breed Genet Genom.* 2(2): e200008.
- Al Imran Malik, Pasajee Kongsil, Vũ Anh Nguyễn, Wenjun Ou, Sholihin, Pao Srean, MN Sheela, Luis Augusto Becerra López-Lavalle, Yoshinori Utsumi, Cheng Lu, Piya Kittipadukul, Hữu Hỷ Nguyễn, Hernan Ceballos, Trọng Hiến Nguyễn, Michael Selvaraj Gomez, Pornsak Aiemnaka, Ricardo Labarta, Songbi Chen, Suwaluk Amawan, Sophearith Sok, Laothao Youabee, Motoaki Seki, Hiroki Tokunaga, Wenquan Wang, Kaimian Li, Hai Anh Nguyễn, Văn Đông Nguyễn, Lê Huy Hàm, and Manabu Ishitani. 2020. Cassava breeding and agronomy in Asia: 50 years of history and future directions. *Breeding Science* 70: 145–166.
- Kittipadukul, P., P. Kongsil, C. Phumichai, and S.H. Jansky. 2017. Chapter 7 Breeding cassava for higher yield, pp. 139-170. *In C. Hershey, C., eds. Achieving sustainable cultivation of cassava Volume 2: Genetics, breeding, pests and diseases.* Burleigh Dodds Science Publishing, Cambridge, UK (ISBN: 9781786760043).
- Kongsil P., Kittipadukul P., Phumichai C., Lertsuchatavanich U., Petchpoung K. 2016. Path Analysis of Agronomic Traits of Thai Cassava for High Root Yield and Low Cyanogenic Glycoside. *Pertanika J. Trop. Agric. Sci.* 39 (2): 197-218.
- Kittipadukul, P., B. Jaipeng, A. Slater, W. Stevenson, and S. Jansky. 2015. Potato Production in Thailand. *American Journal of Potato Research* 93: 380-385. DOI 10.1007/s12230-016-9511-y.