



Gerardo Ramirez-Rosales

Personal Address:

678 Real Ave.
Newman CA, 95360

Employer Information:

Sakata Seed America
Serene Drive
Morgan Hill CA 95038
(408) 778-7758
gramirez@sakata.com

Education Background

Ph. D. in Horticulture & Crop Science, The Ohio State University, December 2002

MS in Plant Breeding with major in Seed Technology, Agrarian University “Antonio Narro”, Coahuila, Mexico, June 1993

BS Agronomy Agrarian University “Antonio Narro”, Coahuila, Mexico, December 1987

Positions Held

Sakata Seed America, Morgan Hill CA March 2004-Present.

Scientist-Seed Physiologist

Responsible of Planning and Executing Seed Physiology Research Projects in Vegetable Crops

The Ohio State University, Columbus, OH January 2003-September 2003

Post-Doctorate Associate

Conducting Research on the Effects Biological Seed Treatments on Stand Establishment of Vegetable Crops.

Post-Doctorate Associate

Collaborating in the Study of the Genetic Basis of Tomato Fruit Development

The Ohio State University, Columbus, OH September 1998- December 2002

Graduate Research Associate

Conducting Research on Tomato Seed Germination and Vigor in the Department of Horticulture and Crop Science.

The Ohio State University, Columbus, OH January 2003-September 2003

Post-Doctorate Associate

Conducting Research on the Effects Biological Seed Treatments on Stand Establishment of Vegetable Crops.

Post-Doctorate Associate

Collaborating in the Study of the Genetic Basis of Tomato Fruit Development.

Carmela SA de CV a subsidiary Company of Cargill de Mexico SA de CV Division Semillas (Seed Division), Guadalajara, Jalisco Mexico. July 1993 - June 1998

Seed Production Coordinator

Planned and coordinated corn hybrid seed production in the area of Bajío and Jalisco, Mexico,

Seed Production Researcher

Planned and executed research projects to increase seed yield of new hybrids.

Collaborated with the department of Research and Product Development to characterize and evaluate new corn hybrids.

National Service for Inspection and Certification of Seeds, Sonora and Torreon Mexico. February 1988-December1990

Field and Laboratory Inspector

Conducted Inspections of seed production fields of cotton, beans, and wheat

Conducted germination tests of the crops listed above to evaluate if they met the minimum requirements for certification

Research Interests

- We are currently investigating the environmental conditions (temperature, relative humidity, light intensity), that are more important on the expression of high percentage of dormant seeds in vegetable crops (cauliflower, for instance). Parallel to this, we want to identify the stage of development at which seed becomes dormant.
- We are also doing research on the conditions that favor a more rapid dormancy loss in storage (after-ripening).
- We are very interested in developing research projects to find the origin of a seed physiology issue, such as low germination, poor vigor, high dormancy, and rapid deterioration. We want to identify at which seed production stage (seed development, maturation, drying, harvesting, conditioning, or storage) that issue is originated.

HONOR AND AWARDS

Operation Student Connection to attend the Annual Convention of American Seed Trade Association in Boston, MA. June 23, 2002

Best Student Poster Presentation at the XXVIth International Horticultural Congress in Toronto, Canada. August 2002

Agrarian University "Antonio Narro" Student Award Generation 1992

Agrarian University "Antonio Narro" Student Award Generation 1987

ABSTRACTS AND PRESENTATIONS

Ramirez-Rosales. 2005. Seed Dormancy and After-Ripening Issues from the Seed Industry Perspective. Annual Conference of the American Society of Horticultural Science. HortScience 40 (4):956

Ramirez-Rosales, G. and Bennett, M. 2002. Fruit Development and Dormancy Breaking Treatment Effects on The Speed of Germination of The Tomato (*Lycopersicon esculentum* Mill.) Mutant Dark Green (DG). XXVIth International Horticultural Congress and Exhibition (IHC 2002). 552 (Abstract)

Ramirez-Rosales, G., Bennett, M., McDonald, M. and Francis, D. 2001. Lycopene Content and Fruit Development Effects on the Germination and Longevity of Tomato (*Lycopersicon esculentum* Mill.) Seeds. HortScience 36: 577 (Abstract).

Ramirez, G. and M. Bennett. (2000). Evaluation of applied antioxidants on tomato seed germination and longevity. American Society of Agronomy. Abstract. 92:148

PUBLICATIONS

Ramirez-Rosales, G. Bennett, M. McDonald M. and Francis, D. 2005. Gibberellin plus Norflurazon Enhance the Germination of Dark Green Tomato (*Lycopersicon esculentum* Mill.) Genotypes. Seed Technology, 27(1):59-65

Ramirez-Rosales, G. Bennett, M. McDonald M. and Francis, D. 2005. Total Antioxidant Capacity of Seeds from Normal and Enhanced Lycopene Tomato (*Lycopersicon esculentum* Mill.) Genotypes. Seed Technology, 27(1):66-75

P. Peñaloza, **G. Ramirez-Rosales**, M. B. McDonald and M. A. Bennett. Lettuce (*Lactuca sativa* L.) Seed Quality Evaluation Using Seed Physical Attributes, Saturated Salt Accelerated Aging and the Seed Vigor Imaging System. *Accepted*

Ramirez-Rosales, G. Bennett, M. McDonald M. and Francis, D. 2004. Effect of Fruit Development on the Germination and Vigor of High Lycopene Tomato (*Lycopersicon esculentum* Mill.) Seeds. Seed Science and Technology, 32:775-783

Cano-Rios, P., **Ramirez-Rosales, G.**, Ortegon-Perez, J., Esparza-Martinez-J.H. and Rodríguez-Herrera, S. 2000. Diallel Analysis of Seed Vigor in Muskmelon. Agrociencia 34:337-342.