

SILVIA R. CIANZIO

**Professor, Department of Agronomy
Soybean Breeders and Geneticist**

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EDUCATION

<u>Degrees</u>	<u>Institution</u>	<u>Year</u>
PhD	Iowa State University Ames, IA, USA	1978
MS	Iowa State University Ames, IA, USA	1970
BS	Universidad del Uruguay Montevideo, URUGUAY	1968

PROFESSIONAL EXPERIENCE

1995 – present	Professor, Department of Agronomy, Iowa State University, Ames, IA
1984 – 1/31/2017	Lecturer <i>Ad Honorem</i> , Department of Agronomy, Crops and Soils, University of Puerto Rico, Mayaguez Campus, Mayaguez, P. R.
1984 – 1995	Associate Professor, Department of Agronomy, Iowa State University, Ames, IA
1979-1984	Assistant Professor, Department of Agronomy, Iowa State University, Ames, IA
1978-1979	Post-Doctoral Research Associate, Department of Agronomy, Iowa State University, Ames, IA
1977-1978	Pre-Doctoral Research Associate, Department of Agronomy, Iowa State University, Ames, IA
1975-1977	Graduate Research Assistant, Department of Agronomy, Iowa State University, Ames, IA
1970-1973	Assistant Professor, Department of Agronomy, Universidad del Uruguay, Montevideo, Uruguay
1968-1970	Graduate Research Assistant, Department of Agronomy, Iowa State University, Ames, IA

SILVIA R. CIANZIO

1965-1968 Teaching & Research Assistant – Fellowship, Department of Agronomy, Universidad del Uruguay
Montevideo, Uruguay

HONORS

April 2017 Certificate of Appreciation- Alabama Agricultural and Mechanical University- Co-Author STEM Poster at “Fostering Student Innovation and Success in STEM’

March 2017 Judge, Baker Council Research Program, Dept. of Agronomy, ISU, Ames, IA

February 2017 Poster Judge – 2017 ISU Undergraduate Research Activity

November 2008 Fellow, American Society of Agronomy

September 2008 Crop Science Society – Division C8 chair

June 2008 Chair elect, Excellence in Plant Breeding Committee, National Workshop for Plant Breeding, Des Moines, Iowa

February 2008 Chair elect, NCERA 137 committee, Plant Disease Management

November 2007 Fellow, Crop Science Society of America

May 1991 Merit Certificate, Agricultural Extension Service, University of Puerto Rico, for contribution to Agricultural Exhibition organized by the Extension Service, UPR

April 1991 Certificate of Appreciation, College of Business Administration, University of Puerto Rico, and National Science Foundation, Young Scholars Program in the National Science Foundation

January 1988 Selected by USDA/OICD/STC as US representative on Soybean Production and Genetic Resources delegation to People's Republic of China

May 1988 Full Membership, ISU Graduate Faculty

April 1987 Elected to Sigma Xi

November 1984 Raymond and Mary Baker Award for Excellence in Research

March 1984 Elected to Phi Kappa Phi

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April 1982 Elected to or

RECOGNITIONS - REVIEW PANELS - CHAIR

August 2018 Reviewer – Invited. Soybean Breeding Program at ILVO, University of Gent, Gent Belgium

March 2018 Reviewer – Invited. National Soybean Germplasm Collection –ARS USDA

Since 2013-date External reviewer: PhD Dissertations (Universities other than ISU); Grant research reviewer for Agricultural Program in Poland; Grant Reviewer for Agricultural Canada; Strategic 5-year plan for USDA-ARS; Grant reviewer for NIFA-AFRI Foundational Program

April 2017 Moderator, 2017 ISU Undergraduate Research Symposim

May 2009 Grant reviewer - invited by USDA-ARS National Program Staff Coordinator-Reviewer of grants on Applications of Biotechnology to Plant Breeding – Washington, DC

February 2009 National Soybean Germplasm Committee – Invited and elected as committee member for a 6-year period, representing the Soybean Breeders for the Northern Region

January 2009 Chair NCERA 137 – organized Annual Meeting, at Isabela, Puerto Rico.

April 1991 Invited to Costa Rica by Department of Agronomy, CIGRAS, University of Costa Rica, to discuss soybean research and production

July 1984 Invited to discuss role of Winter Nurseries in Soybean Breeding, World Research Conference III, Ames, IA

October 1983 Invited, International Seminar on Soybean Breeding for Tropical Regions, Caracas, Venezuela

August 1983 Invited panel member, Caribbean Food Crops Society, to discuss "Evolving Strategies for Agricultural Technology Transfer,, San Juan, PR

INVITED PRESENTATIONS - PUBLICATIONS ABOUT MY WORK

March 2017 Invited talk to Blue River Seed Co., Ames, IA "Presenting lines developed by Soybean Breeding for Pathogen Resistance"

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- November 2016 Invited, Iowa State University, Research Foundation Inc., Office of Intellectual Property & Technology Transfer, Seminar entitled 'How Silvia Cianzio balances a diverse research portfolio
- September 2016 Invited, Univ. of Minnesota, Dept. of Plant Pathology, Seminar series lecture entitled 'Troubles and tribulations in breeding soybean for resistance to Sudden Death Syndrome'.
- July 2016 Invited, APS Annual meeting, Symposium entitled ' Promising Phenotyping Efforts for understanding genetic Genetic and Molecular bases of Plant disease resistance'. Title of my [presentation: Unraveling the host –pathogen interaction via phenotyping and molecular characterization of resistance: Soybean as a case study. 2016 APS Annual Meeting, July 31-August 3, Tampa FL
- May 2013 Invited, address Agricultural Visitors from Ukraine, and discuss soybean breeding for disease and pest resistance at Iowa State University, May 6, 2013
- March 2013 Invited, Key note speakers at the First Agricultural Research Conference – Morocco, to present '10 years of soybean breeding at Iowa State University to improve disease and pest resistance'- AMAS Conference, March 18-19, 2013
- February 2013 Invited by NCSRP Board of Research Directors to discuss proposal on 'Breeding for SDS resistance' PI S.R. Cianzio. Orlando FL, 02-27-2013
- February 2013 Invited presentation ' Overview of research in breeding for SDS resistance' at the Soybean Breeders Workshop, St Louis, MO. 02-13-2013 Soybean Pathologist session
- February 2013 Invited- presentation about Soybean Breeding Program for Disease resistance at ISU – Meeting SCC 33 (Variety Tests group) – Meeting in Ponce, Puerto Rico, 02-5-2013
- November 2012 Invited to present research progress on SDS- United Soybean Board grant. Meeting in Kansas City, 11-16-2012
- September 2012 Invited by the North Central Soybean Research Program (NCSRP) to summarize breeding work and future approaches in breeding for sudden death syndrome (SDS), and to participate in the preparation of a white paper on SDS research in soybean

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- August 2012 Invited presentation – Society of Nematologists – Annual Meeting – Symposium on Genetics and new tools, ‘Breeding soybeans for resistance to soybean cyst nematode – A comprehensive approach’. Savannah, Georgia
- June 2012 Session Chair on ‘Improvements to Iron Nutrition in Plants’ at the XVII International Symposium on Fe Nutrition and Interaction in Plants, Amherst, MS
- May 2012 Article published on Soybean Breeding at Iowa State University, Iowa Soybean Review
- November 2011 Invited presentation - North Central Soybean Research Meeting, St. Paul, Minnesota, ‘Accomplishments on Breeding for Resistance to Sudden Death Syndrome in Soybean – Phase I’
- February 2011 Invited presentation – Soybean Breeders Workshop, St. Louis, MO, ‘Advances in Breeding for Resistance to Sudden Death Syndrome in Soybean’
- November 2010 Invited presentation – North Central Soybean Research Update, Fayette, Arkansas, ‘Recent advances in Breeding for Resistance to Sudden Death Syndrome in Soybean’
- September 2010 Invited presentation on ‘Breeding soybeans using nursery locations’, by the Puerto Rico Seed Association, Bi-Annual meeting, at Rio Grande, Puerto Rico
- February 2010 Invited presentation – Soybean Breeders Workshop, St. Louis, MO, ‘Advances in Breeding for Resistance to Brown Stem Rot in Soybean’
- August 2009 Session Chair on ‘Biotechnology and its innovation in soybean’ at the World Soybean Conference VIII, Beijing, China
- January 2009 Presenter of ISU research in soybean breeding for disease resistance, Meeting NCERA 137
- October 28, 2008 Invited Lecture – Universidad Autonoma de Madrid, Spain – Graduate College of Soil Chemistry – Micronutrients and breeding to increase their use efficiency
- October 24, 2008 Invited Plenary lecture on ‘ Micronutrients, physiological role and breeding to increase their efficiency of use’, at Congreso Internacional de Fisiologia de Plantas, Granada, Spain

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- October 11, 2008 Invited presentation, session on Genetics and Improvements on Fe nutrition and interaction in plants, presentation title 'Breeding Fe efficient cultivars in soybeans' at – XIV International Fe Symposium on Fe Nutrition and Interaction in Plants – Beijing, China
- September 2006 Invited presentation, on 'Breeding for Disease Resistance in Soybean' by the Puerto Rico Seed Research Association, Ponce, Puerto Rico
- July 2006 Chair, Breeding aspects for Iron deficiency chlorosis, XIII International Symposium on Iron Nutrition and Interaction in Plants, Montpellier, France, July 1-7, 2006.
- April 2004 Plenary lecture, 'Breeding for Fe efficiency in crops' at XII International Symposium on Iron Nutrition and Interactions in Plants, Tokyo, Japan
- June 2002 Plenary lecture, 'Genetic Improvements on Fe efficiency in plants' at the XI International Symposium on Iron Nutrition and Interactions in Plants, Udine, Italy
- December 2001 Puerto Rico PBS TV, TV interview about Soybean Breeding at ISU and UPR, at the Isabela Substation, Isabela, Puerto Rico, broadcasted in San Juan, Puerto Rico
- November 2001 Article on Uses of the nursery in Puerto Rico for Soybean Breeding, Iowa Soybean Review
- May-August 2000 Articles on: Iowa Soybean Review; Action, notes from ISU; ISU Daily; Buffalo Center Tribune
- May 2000 Plenary lecture on 'Advances in molecular breeding for Fe efficiency in soybean' at the X International Symposium on Iron Nutrition and Interactions in Plants, Houston, Texas, U.S.A.
- July 1997 Invited plenary paper, on 'Recent developments on genetics and breeding for Fe efficiency in soybean' at the IX International Symposium on Iron Nutrition and Interactions in Plants, Stuttgart, Germany
- February 1997 Iowa Soybean Review, published article 'Puerto Rico Nursery Research'
- March 1997 Radio interview, Ames, Iowa.

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- July 1994 Invited presentation, V International Symposium on Genetics Aspects of Plant Mineral Nutrition', Davis, California
- December 1993 Radio interview, Iowa Soybean Promotion Board Network (89 radio stations)
- July 1993 Included in the XII Edition of *The World Who's Who of Women*
- June 1993 Invited plenary paper, on 'Inheritance of Fe efficiency in soybean' at the VII International Symposium on Iron Nutrition and Interactions in Plants, Zaragoza, Spain
- July 1992 Production Research Award, American Soybean Association, Soybean EXPO, July 26, 1992, Houston, TX
- October 1991 Invited paper, IV International Symposium on Genetics Aspects of Plant Mineral Nutrition, Canberra, Australia
- October 1991 ISU Foreign Travel Grant, IV International Symposium on Genetics Aspects of Plant Mineral Nutrition, Canberra, Australia
- August 1991 TV interview to discuss soybean production in Puerto Rico to be shown on the program "Despierta Puerto Rico," WOLE TV Network, San Juan, PR. The interview was conducted by the "Resource Center for Science and Engineering" office of the Consortium of Scientific Universities in Puerto Rico.
- January 1991 Interview for *Iowa Soybean Promotion Board News* to discuss US-Chinese Joint Variety Test
- July 1990 Invited presentation to discuss research program with Young Scholars Program, National Science Foundation. Lecture presented at College of Business Administration, University of Puerto Rico, Mayaguez
- June 1990 Invited to serve as mentor to high school student who was selected on basis of academic achievement to participate in Young Scholars Program of National Science Foundation in Puerto Rico. Student conducted research under Cianzio's guidance
- April-May 1990 Invited, International Program of University of Puerto Rico, Mayaguez, to present two lectures on soybean production and research to 30 Peruvian researchers during their visit to Puerto Rico

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December 1989	TV interview, Public National TV station Mercedes and Montevideo, Uruguay
June 1989	Invited paper on 'A review of genetic mechanisms responsible for Fe utilization and efficiency in crops' at V International Symposium on Iron Nutrition and Interactions in Plants, Jerusalem, Israel
March 1989	TV interview by station in Mercedes, Uruguay to discuss research and production topics presented at World Soybean Research Conference IV, held in Buenos Aires, Argentina
March 1989	Chair, session on Genetic and Improvement in Soybean, III World Soybean Research Conference in Buenos Aires, Argentina
March 1989	South America Soybean Mission Plaque presented by ICI Agricultural Products Group, recognition of nomination by Iowa Soybean Association and being selected as finalist by ASA/ICI panel of judges
January 1989	Newspaper interview on trip to China published by <i>Accion</i> , Spanish newspaper in Mercedes, Uruguay
August 1988	Gift, by College of Agriculture, Nanjing University in recognition of contribution to friendship between US and PRC soybean scientists
August 1988	Seven invited lectures on soybean research presented during visit to China
April 1988	ISU Foreign Travel Grant to People's Republic of China to exchange soybean germplasm, establish joint research, and evaluate soybean production practices influencing future status of China in world soybean market
March 1988	News release on trip to China published by <i>Iowa Soy News</i>
January 1988	Invited to Workshop on Seed Production to discuss role of a winter nursery in seed production, Agricultural Experiment Station, University of Puerto Rico, Rio Piedras, PR
November 1986	Invited to discuss winter nurseries in Puerto Rico, Symposium on Winter Nurseries, American Society of Agronomy, 1986 annual meeting, New Orleans, LA
February 1985	Interview, <i>Iowa Soy News</i>

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- January 1983 Radio interview, Sac City, IA
- December 1982 Invited by Sac County, Iowa Soybean Association to soybean producers meeting to discuss research in Puerto Rico
- July 1982 Invited by Iowa Soybean Promotion Board to soybean producers meeting to discuss research supported by Iowa Soybean Promotion Board, Ames, IA
- April 1982 Certificate of Merit, Colegio de Agronomos de Puerto Rico
- March 1982 Invited to discuss future possibilities of soybeans as commercial crop in Puerto Rico. Conference presented to the Colegio de Agronomos, Ponce, PR
- June 1980 Invited by Iowa Soybean Association to soybean producers meeting to discuss role of Iowa Soybean Promotion Board in research at Iowa State University, Cedar Falls, IA

EDITORIAL POSTS

- 1994- 1997. Associate Editor, C1 and C7, Crop Science
- 2010 – 2015 Technical Editor – Crop Science
- 2000 - date Editorial Board Member – J. of Crop Improvement

Additional Editorial Responsibilities

- 2004 Reviewer, Proceedings of the XII International Symposium on Fe nutrition and interaction in Plants, papers published in the Soil Science and Plant Nutrition Journal (Japanese)
- 2001 Ad Hoc reviewer, Proceedings of the International Symposium on Fe nutrition and interaction in Plants, papers published Plant and Soil
- 1999 Ad Hoc reviewer, Proceedings of the International Symposium on Fe nutrition and interaction in Plants, papers published Plant and Soil.
- 1997 Ad Hoc reviewer, Proceedings of the International V Symposium on Fe nutrition and interaction in Plants, papers published Plant and Soil.
- 1989 Chair, Breeding Methodology Section, and Chair, Breeding for Stability and Yield. World Soybean Research Conference IV, Buenos Aires, Argentina, 5-9 March 1989.
- 1987- 1990 Invited member, Editorial Board, journal *Ciencia Agronomica*, published in Almeria, Spain.
- 1991-date Member, Steering Committee, International Symposium on Iron Nutrition and Interactions in Plants.
- 1993, 1997 Chair, Genetics and Breeding. International Symposium on Iron Nutrition and Interactions in Plants. Zaragoza, Spain; Houston Texas; Stuttgart, Germany; Udine, Italy; Tokyo, Japan; Montpellier, France.

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Ad Hoc Reviewer - Manuscripts (1980-date)

Crop Science
Journal of Heredity
Journal of Agriculture of the University of Puerto Rico
Iowa State Research Journal
Journal of the Iowa Academy of Science
East African Agricultural and Forestry Journal
Molecular Breeding
International Journal of Plant Science
Plant and Soil
TAG (Theoretical and Applied Genetics)
Plant Disease

PROFESSIONAL AFFILIATIONS

1978-date American Society of Agronomy
1978-date Crop Science Society
1983-date Caribbean Food Crops Society
1983-date Iowa Academy of Science

Professional Society - American Society of Agronomy

1983-86 Member, Visiting Scientist Award Committee
1988-95 Member, Membership Committee, American Society of Agronomy for Puerto Rico
1996-97 Chair, Division C1, Crop Science Society of America
1997- 01 Member, NCCPB and Plant Breeding Award for Industry Committee
2005- 2008 Chair, Division C8
2010-2013 Member – Rapid Response Team Committee – ASA committee to provide information to presidents of the ASA

PUBLICATIONS

Refereed Articles – Google Scholar citation number 3333

1974

Fehr, W. R., and **S. R. Cianzio**. 1974. Effect of row spacing and genotypic frequency on the yield of soybean blends. *Crop Sci.* 14:521-525.

1979

Walker, A. K., **S. R. Cianzio**, J. A. Bravo, and W. R. Fehr. 1979. Comparison of emasculation and nonemasculation for artificial hybridization of soybeans. *Crop Sci.* 19: 285-286.

Cianzio, S. R., W. R. Fehr, and I. C. Anderson. 1979. Genotypic evaluation for iron deficiency chlorosis by visual scores and chlorophyll concentration. *Crop Sci.* 19:644-646.

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1980

Cianzio, S. R., and W. R. Fehr. 1980. Genetic control of iron deficiency chlorosis in soybeans. Iowa State J. of Res. 54:367-375.

Bravo, J. A., W. R. Fehr, and **S. R. Cianzio**. 1980. Use of pod width for indirect selection of seed weight in soybeans. Crop Sci. 20:507-510.

Fehr, W. R., and **S. R. Cianzio**. 1980. Relationship of component frequency to compensatory response in soybean blends. Crop Sci. 20:392-393.

Fehr, W. R. and **S. R. Cianzio**. 1980. Registration of AP9(S1)C2 soybean germplasm. Crop Sci. 20:677.

1981

Bravo, J. A., W. R. Fehr, and **S. R. Cianzio**. 1981. Use of small-seeded soybean parents for the improvement of large-seeded cultivars. Crop Sci. 21:430-432.

Fehr, W. R., and **S. R. Cianzio**. 1981. Registration of soybean germplasm populations AP10 to AP14. Crop Sci. 21:477-478.

1982

Cianzio, S. R., and W. R. Fehr. 1982. Genetic variability for soybean seed composition in crosses between high- and low-protein parents. J. Agric. Univ. Puerto Rico 66:123-129.

Cianzio, S. R., and W. R. Fehr. 1982. Variation in the inheritance of resistance to iron deficiency chlorosis in soybeans. Crop Sci. 22:433-434.

Cianzio, S. R., S. J. Frank, and W. R. Fehr. 1982. Seed width to pod width ratio for the identification of green soybean pods that have attained maximum length and width. Crop Sci. 22:463-466.

1983

Hawkins, S. E., W. R. Fehr, E. G. Hammond, and **S. R. Cianzio**. 1983. Use of tropical environments in breeding for oil composition of soybean genotypes adapted to temperate climates. Crop Sci. 23:897-899.

1984

Fehr, W. R., B. K. Voss, and **S. R. Cianzio**. 1984. Registration of a germplasm line of soybean, A7. Crop Sci. 24:390-391.

1985

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Cianzio, S. R., J. F. Cavins, and W. R. Fehr. 1985. Protein and oil percentage of temperate soybean genotypes evaluated in tropical environments. *Crop Sci.* 25:602-606.

Palmer, R. G., and **S. R. Cianzio**. 1985. Conditional lethality involving nuclear and cytoplasmic chlorophyll mutants in soybeans. *Theor. Appl. Gen.* 70:349-354.

1986

Ortiz, C., **S. R. Cianzio**, P. Hepperly, and W. R. Fehr. 1986. Premature harvest of soybeans for rapid generation advance. *J. Agric. Univ. Puerto Rico* 70:159-167.

1987

Cianzio, S. R., and W. R. Fehr. 1987. Inheritance of agronomic and seed traits in *Glycine max* x *Glycine soja* crosses. *J. Agric. Univ. Puerto Rico* 71:53-64.

Hintz, R. W., W. R. Fehr, and **S. R. Cianzio**. 1987. Population development for the selection of high-yielding soybean cultivars with resistance to iron-deficiency chlorosis. *Crop Sci.* 27:707-710.

Wehrmann, V. K., W. R. Fehr, **S. R. Cianzio**, and J. F. Cavins. 1987. Transfer of high seed protein to high-yielding soybean cultivars. *Crop Sci.* 27:927-931.

Lundeen, P. O., W. R. Fehr, and **S. R. Cianzio**. 1987. Association of alleles for high stearic acid with agronomic characters of soybean. *Crop Sci.* 27:1102-1105.

Meyer-Bothling, E., **S. R. Cianzio**, and J. C. Polacco. 1987. Pleiotropic soybean mutants defective in both urease isozymes. *Mol. Gen. Genet.* 209:432-438.

1988

Ortiz, C., **S. R. Cianzio**, and P. R. Hepperly. 1988. Fungi and insect infestations of soybean seeds harvested at immature stages in tropical environments. *J. Agric. Univ. Puerto Rico* 72:73-79.

Wehrmann, V. K., W. R. Fehr, and **S. R. Cianzio**. 1988. Analysis of strategies for transfer of an allele for resistance to *Phytophthora* in soybean. *Crop Sci.* 28:248-250.

Jessen, H. J., W. R. Fehr, and **S. R. Cianzio**. 1988. Registration of germplasm lines of soybean, A11, A12, A13, A14, and A15. *Crop Sci.* 28:204.

Graef, G. L., W. R. Fehr, L. A. Miller, E. G. Hammond, and **S. R. Cianzio**. 1988. Inheritance of fatty acid composition in a soybean mutant with low linolenic acid. *Crop Sci.* 28:55-58.

Fehr, W. R., A. K. Walker, A. F. Schmitthenner, **S. R. Cianzio**, and B. K. Voss. 1988. Registration of 'Elgin 87' soybean. *Crop Sci.* 28:1025.

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Fehr, W. R., A. K. Walker, A. F. Schmitthenner, **S. R. Cianzio**, and B. K. Voss. 1988. Registration of 'Harper 87' soybean. *Crop Sci.* 28:1026.

1989

Graef, G. L., W. R. Fehr, and **S. R. Cianzio**. 1989. Relation of isozyme genotypes to quantitative characters in soybean. *Crop Sci.* 29:683-688.

Polacco, J. C., A. K. Judd, J. K. Dybing, and **S. R. Cianzio**. 1989. A new mutant class of soybean lacks the ubiquitous urease isozyme in leaves but not in leaf-derived callus or in roots. *Mol. Gen. Genet.* 217:257-262.

Fehr, W. R., **S. R. Cianzio**, B. K. Voss, and S. P. Schultz. 1989. Registration of 'Conrad' soybean. *Crop Sci.* 29:830.

1990

Cianzio, S. R., S. P. Schultz, B. K. Voss, and W. R. Fehr. 1990. Registration of 'Marcus' soybean. *Crop Sci.* 30:1162.

Cianzio, S. R., S. P. Schultz, B. K. Voss, and W. R. Fehr. 1990. Registration of 'Kenwood' soybean. *Crop Sci.* 30:1162.

Fehr, W. R., **S. R. Cianzio**, and G. A. Welke. 1990. Registration of 'LS201' soybean. *Crop Sci.* 30:1163.

Fehr, W. R., **S. R. Cianzio**, and G. A. Welke. 1990. Registration of 'LS301' soybean. *Crop Sci.* 30:1363-1364.

Fehr, W. R., **S. R. Cianzio**, G. A. Welke, and A. R. LeRoy. 1990. Registration of 'SS201' soybean. *Crop Sci.* 30:1361.

Fehr, W. R., **S. R. Cianzio**, and G. A. Welke. 1990. Registration of 'SS202' soybean. *Crop Sci.* 30:1361.

Fehr, W. R., **S. R. Cianzio**, and G. A. Welke. 1990. Registration of 'HP201' soybean. *Crop Sci.* 30:1361-1362.

Fehr, W. R., **S. R. Cianzio**, and G. A. Welke. 1990. Registration of 'HP202' soybean. *Crop Sci.* 30:1362.

Fehr, W. R., **S. R. Cianzio**, and G. A. Welke. 1990. Registration of 'HP203' soybean. *Crop Sci.* 30:1362-1363.

Fehr, W. R., **S. R. Cianzio**, and G. A. Welke. 1990. Registration of 'HP204' soybean. *Crop Sci.* 30:1363.

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1991

Cianzio, S. R., D. E. Green, C-S Chang, and R. M. Shibles. 1991. Developmental periods in soybean: Photoperiod sensitive x insensitive crosses evaluated at diverse latitudes. *Crop Sci.* 31:8-13.

Cianzio, S. R. 1991. Recent advances in breeding for improving iron utilization by plants. *Plant Soils* 130:63-68.

Cianzio, S. R., E. C. Schroder, and C. T. Ramirez. 1991. Response of soybeans of different maturity groups to sowing date in tropical locations in Puerto Rico. *Trop. Agric. (Trinidad)* 68(4):306-312.

Fehr, W. R., G. A. Welke, E. G. Hammond, D. N. Duvick, and **S. R. Cianzio**. 1991. Inheritance of elevated palmitic acid content in soybean seed oil. *Crop Sci.* 31:1522-1524.

Cianzio, S. R., S. P. Schultz, W. R. Fehr, and H. Tachibana. 1991. Registration of Archer soybean. *Crop Sci.* 31:1707.

Cianzio, S. R., H. Tachibana, L. M. Mansur, W. R. Fehr, T. L. Niblack, S. P. Schultz, R. Ruff, and K. Bidne. 1991. Registration of A20 soybean germplasm resistant to brown stem rot, soybean cyst nematode, and iron deficiency chlorosis. 1991. *Crop Sci.* 31:1713.

Fehr, W. R., G. A. Welke, E. G. Hammond, D. N. Duvick, and **S. R. Cianzio**. 1991. Inheritance of reduced palmitic acid content in seed oil of soybean. *Crop Sci.* 31:88-89.

Suarez, J. C., G. L. Graef, W. R. Fehr, and **S. R. Cianzio**. 1991. Association of isozyme genotypes with agronomic and seed composition traits in soybean. *Euphytica* 52:137-146.

LeRoy, A. R., W. R. Fehr, and **S. R. Cianzio**. 1991. Introgression of genes for small seed size from *Glycine soja* into *G. max*. *Crop Sci.* 31:693-697.

LeRoy, A. R., **S. R. Cianzio**, and W. R. Fehr. 1991. Direct and indirect selection for small seed of soybean in temperate and tropical environments. *Crop Sci.* 31:697-699.

Mansur, L. M., **S. R. Cianzio**, S. P. Schultz, W. R. Fehr, and H. Tachibana. 1991. Registration of Newton soybean. *Crop Sci.* 31:848.

Stebbins, N., M. A. Holland, **S. R. Cianzio**, and J. C. Polacco. 1991. Genetic tests of the role of the embryonic ureases of soybean. *Plant Physiol.* 97:1004-1010.

1992

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Cianzio, S. R., and R. G. Palmer. 1992. Genetics of five cytoplasmically inherited yellow foliar mutants in soybean. *J. Heredity* 83:70-73.

Diers, B. W., **S. R. Cianzio**, and R. C. Shoemaker. 1992. Possible identification of quantitative trait loci affecting iron efficiency in soybean. *J. Plant Nutr.* 15(10):2127-2136.

1993

Cianzio, S. R., and C. E. Ortiz. 1993. A visual indicator for harvest of immature viable seed of indeterminate soybean genotypes. *J. Agric. Univ. Puerto Rico* 77:33-44.

1994

Horejsi, T. F., W. R. Fehr, G. A. Welke, E. G. Hammond, D. N. Duvick, and **S. R. Cianzio**. 1994. Genetic control of reduced palmitate content in soybean. *Crop Sci.* 34:331-334.

Ndzana, X., W. R. Fehr, G. A. Welke, E. G. Hammond, D. N. Duvick, and **S. R. Cianzio**. 1994. Influence of reduced palmitate content on agronomy and seed traits of soybean. *Crop Sci.* 34:646-649.

Cianzio, S. R. de, and B. K. Voss. 1994. Three strategies for population development in breeding high-yielding soybean cultivars with improved iron efficiency. *Crop Sci.* 34:355-360.

1996

Diers, B. W., H. T. Skorupska, A. P. Rao-Arelli, and **S. R. Cianzio**. 1996. The genetic relationship among plant introductions with resistance to soybean cyst nematode. *Soybean Genet. Newslt.* 23:169-174.

Varela, O., J. Beaver, M. Zapata, P. Miklas, and **S. Cianzio**. 1996. Evaluacion de habichuela (*Phaseolus vulgaris* L.) en generaciones tempranas para resistencia a *xanthomonas campestris pv phaseoli* (Smith) dye. *J. Agric. Univ. Puerto Rico* 80:55-63.

Ininda, J., W. R. Fehr, **S. R. Cianzio**, and S. R. Schnebly. 1996. Genetic gain in soybean populations with different percentages of plant introduction parentage. *Crop Sci.* 36:1470-1472.

Hartmann, R. B., W. R. Fehr, G. A. Welke, E. G. Hammond, D. N. Duvick, and **S. R. Cianzio**. 1996. Association of elevated stearate with agronomic and seed traits of soybean. *Crop Sci.* 37:124-127.

Pantoja, J., A. A. Custodio, P. F. Randel, **S. Cianzio**, and B. Rodriguez. 1996. Relacion entre produccion de leche y su contenido de celulas somaticas, en lactancias completas en hatos lecheros de Puerto Rico. *J. Agric. Univ. Puerto Rico* 80:169-182.

1997

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Germplasm and Cultivars Releases

2016

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., S. Swaminathan, and R. Budnik. 2016. AR17SCN soybean germplasm. ISURF #

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Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., S. Swaminathan, and R. Budnik. 2016. AR16SCN soybean germplasm. ISURF #

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., S. Swaminathan, and R. Budnik. 2016. AR14SCN soybean germplasm. ISURF #04394

2015

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., S. Swaminathan, and R. Budnik. 2016. AR15SCN soybean germplasm. ISURF # 03496

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., S. Swaminathan, and R. Budnik. 2016. AR13SCN soybean germplasm. ISURF # 04389

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., S. Swaminathan, and R. Budnik. 2016. AR12SCN soybean germplasm. ISURF # 04388

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., and R. Budnik. 2015. Soybean variety IAR2601 SCN. ISURF #04340

2014

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., and S. Swaminathan. 2014. Soybean variety IAR1902 BSR. ISURF #

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., and S. Swaminathan. 2014. Soybean variety IAR1901 SCN. ISURF #

2012

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., K. Van Der Molen, and M.K. Bhatthacharyya. 2012. AR11SDS Soybean germplasm line. ISURF # 03999

2009

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., and K. Van Der Molen. 2009. IAR3001 Phyto/SC. ISURF# 03712

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, and G. Gebhart. 2009. IAR2101 SCN Soybean cultivar. ISURF # 03711

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, and G. Gebhart. 2009. IAR1008BC SCN/Phyto. Soybean cultivar. ISURF # 03700

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2008

Cianzio, S. R., P. Lundeen, N. Rivera-Velez, G. Gebhart., K. Van Der Molen, and M.K. Bhatthacharyya. 2008. AR10SDS Soybean germplasm line. ISURF # 03624

2007

Cianzio, S.R., P. Arelli, B. Diers,, H. Knapp, P. Lundeen, N. Rivera-Velez, and G. Gebhart. 2007. Soybean germplasm lines AR4SCN, AR5SCN, AR6SCN, AR7SCN, and AR8SCN. ISURF # 03508 to 03512

Cianzio, S. R., G. Gebhart, N. Rivera-Velez, and P. Lundeen. 2007. Soybean cultivar IAR2001BSR. ISURF # 03542

Cianzio, S. R., P. Arelli, B. Diers, H. Knapp, P. Lundeen, N. Rivera-Velez, and G. Gebhart. 2007. Soybean germplasm lines AR4SCN, AR5SCN, AR6SCN, AR7SCN, and AR8SCN.

ISURF #03508 - Soybean Variety AR4SCN - Experimental designation AR04-272020

ISURF #03509 - Soybean Variety AR5SCN - Experimental designation AR04-372028

ISURF #03510 - Soybean Variety AR6SCN - Experimental designation AR04-372030

ISURF #03511 - Soybean Variety AR7SCN - Experimental designation AR04-372031

ISURF #03512 - Soybean Variety AR8SCN - Experimental designation AR04-372032

Cianzio, S. R., Bronson, C., Tabor G , Gebhart. G., Lundeen, P., and Rivera-Velez N. 2007. Soybean line AR9 BSR. ISURF # 03577

Cianzio, S. R., G. Gebhart, N. Rivera-Velez, and P, Lundeen. 2007. Soybean cultivar IAR2001 BSR. ISURF # 03542

2006

Cianzio, S. R., Lightfoot, D.A., Niblack, T. L., Rivera-Velez N., Lundeen, P., and Gebhart. G. 2006. Soybean line AR1. ISURF #03376

Cianzio, S. R., Shoemaker, R.C., Charlson, D., Gebhart. G., Lundeen, P., and Rivera-Velez N. 2006. Soybean line AR2. ISURF #03381

Cianzio, S. R., Shoemaker, R.C., Charlson, D., Gebhart. G., Lundeen, P., and Rivera-Velez N. 2006. Soybean line AR3. ISURF #03380

2002

Cianzio, S. R., Arelli, P. Uphoff, M., Mansur, L., Schultz, S., and Ruff, R. 2002. Soybean line A95-684043. ISURF #02975

2000

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Cianzio, S. R., G. Gebhart, N. Rivera-Velez, and P. Lundeen. 2000. IA2050 soybean cultivar. ISURF # 02674

Prior to year 2000 39 cultivars and germplasm releases