

BEAN/COWPEA COLLABORATIVE RESEARCH SUPPORT PROGRAM

REGIONS FOCUSING ON BEANS

Participating Host Countries:

Costa Rica
Dominican Republic
Ecuador
Honduras
Malawi
México
Tanzania

Participating U.S. Universities:

Michigan State University
Oregon State University
University of California-Davis
University of Minnesota
University of Nebraska
University of Puerto Rico
University of Wisconsin
Washington State University

Officers:

Regional Chair (LAC): Dr. James Beaver
Co-Chair (LAC): Dr. Acosta Gallegos
Regional Facilitator (LAC): Dr. Richard Bernsten

Regional Chair (EA): Dr. James Myers
Co-Chair (EA): Dr. Charles Masangano
Regional Facilitator (EA): Dr. Anne Ferguson

A. REFEREED PUBLICATIONS:

Acosta, J. A., E. Acosta, S. Padilla, M. A. Goytia, R. Rosales and E. Lopez. 1999. Mejoramiento de la Resistencia a la Sequia del Frijol Comun en México. Agronomia Mesoamericana 10(1):83-90.

Acosta- Gallegos, J. A., F. J. Ibarra-Perez, R. Rosales-Serna, A. Castillo-Rosales and J. D. Kelly. 2001. Registration of Negro Sahuatoba Opaque Black Bean. Crop Science 41:1646-1647.

Acosta- Gallegos, J. A., F. J. Ibarra-Perez, R. Rosales-Serna, B. Cazares-Enriquez, P. Fernandez-Hernandez, A. Castillo-Rosales and J. D. Kelly. 2001. Registration of Bayacora Pinto Bean. Crop Science 41:1645-1646.

Acosta- Gallegos, J. A., F. J. Ibarra-Perez, R. Rosales-Serna, A. Castillo-Rosales, B. Cazares-Enriquez, P. Fernandez-Hernandez and J. D. Kelly. 2001. Registration of Negro Altiplano Common Bean. Crop Science 41:1650.

Acosta- Gallegos, J. A., F. J. Ibarra-Perez, R. Rosales-Serna, P. Fernandez-Hernandez, A. Castillo-Rosales and J. D. Kelly. 2001. Registration of Mestizo Pinto Bean. Crop Science 41: 1650-1651.

Acosta, G. J. A., S. Padilla R., J. Z. Castelanos R. and J. Argaez P. 1998. Epoca de Siembra de Frijol de Riego en el Altiplano de México. Rev. Fitotec. México 19:131-140.

Acosta-Gallegos, J. A., C. Quintero, J. Vargas, O. Toro, J. Tohme and C. Cardona. 1998. A New Variant of Arcelin in Wild Common Bean, *Phaseolus vulgaris* L. from Southern México. Genetic Resources and Crop Evolution 45:235-242.

Acosta-Gallegos, J. A. and J. W. White. 1997. Fenologia and Redimiento del Frijol de Temporal en el Altiplano de México. Agricultural Tech. México 23:3-14.

Aguirre, J. F., J. Kohashi-Shibata, C. L. Trejo and J. A. Acosta-Gallegos. 1999. Respuesta Fisiologica del Frijol (*Phaseolus vulgaris* L.) a la Sequia, en un Sistema de Raiz Dividida. Agronomia Mesoamericana 10(1):31-36.

Aragao, S. G. R., L. M. G. Barros, A. C. M. Brasileiro, D. P. Maxwell, E. L. Rech and J. C. Faria. 1998. Transgenic Beans (*Phaseolus vulgaris* L.) Engineered to Express Viral Antisense RNAs Showed Delayed and Attenuated Symptoms To Bean Golden Mosaic Geminivirus. Molecular Breeding 4:491-499.

Aragao, F. J. L., L. M. G. Barros, A. C. M. Brasileiro, S. G. Ribeiro, F. D. Smith, J. C. Sanford, J. C. Faria and E. L. Rech. 1996. Inheritance of Foreign Genes in Transgenic Bean (*Phaseolus vulgaris* L.) Co-Transformed via Particle Bombardment. Theoretical and Applied Genetics 93:142-150.

Ariyaratne, H. M., D. P. Coyne, G. Jung, P. W. Skroch, A. K. Vidaver, J. R. Steadman, P. N. Miklas and M. J. Bassett. 1999. Molecular Mapping of Disease Resistance Genes for Halo Blight, Common Bacterial Blight, and Bean Common Mosaic Virus in a Segregating Population of Common Bean. Journal of the American Society of Horticultural Science 124:654-662.

- Ariyaratne, H. M., D. P. Coyne and A. K. Vidaver. 1998. Pathogenic Variation in Halo Blight on Common Beans. HortScience 33:500.
- Ariyaratne, H. M., D. P. Coyne, A. K. Vidaver and K. M. Eskridge. 1998. Selecting for Common Bacterial Blight Resistance in Common Bean: Effects of Multiple Leaf Inoculation and Detached Pod Inoculation Test. Journal of the American Society for Horticultural Science 123:864-867.
- Arnaud-Santana, E., J. C. Nin, F. Saladin, G. Godoy-Lutz, J. S. Beaver, D. P. Coyne and J. R. Steadman. 2000. Registration of JB-178" Red Mottled Bean. Crop Science 40:857-858.
- Arnaud-Santana, E., J. C. Nin, F. Saladin, G. Godoy-Lutz, D. P. Coyne, J. S. Beaver and J. R. Steadman. 2000. Registration of Arroyo Loro Negro Black Bean. Crop Science 40:856-857.
- _____. 2000. Registration of CIAS-95" Red Mottled Bean. Crop Science 40:857.
- Balardin, R. S., A. M. Jarosz and J. D. Kelly. 1997. Virulence and Molecular Diversity in *Colletotrichum lindemuthianum* from South, Central and North America. Phytopathology 87:1184-1191.
- Balardin, R. S. and J. D. Kelly. 1998. Interaction among Races of *Colletotrichum lindemuthianum* and Diversity in *Phaseolus vulgaris*. Journal of the American Society for Horticultural Science 123:1038-1047.
- Balardin, R. S., J. J. Smith and J. D. Kelly. Ribosomal DNA Polymorphism in *Collectotrichum lindemuthianum*. Mycological Resources 103:841-848
- Ballen, K. G. and P. H. Graham. In press. The Role of Acid pH in Symbiosis Between Plants and Soil Organisms. In Z. Rengel (ed.) pH as a Master Variable in Plant Growth. Marcek Dekker, New York, NY.
- Ballen, K. G., P. H. Graham, R. K. Jones and J. H. Bowers. 1998. Acidity and Calcium Interactions Affecting Cell Envelope Stability in *Rhizobium*. Canadian Journal of Microbiology 44:582-587.
- Barron, E. J., R. J. Pasini, D. W. Davis, D. D. Stuthman and P. H. Graham. 1999. Response to Selection for Seed Yield and Nitrogen (N₂) Fixation in Common Bean (*Phaseolus vulgaris* L.). Field Crops Resources 62:119-128.
- Beaver, J. S. 1999. Improvement of Large-Seeded Race Nueva Granada Cultivars. In S. P. Singh (ed.) Common Bean Improvement in the Twenty-First Century. Kluwer Academic Publishers, Boston, MA p. 275-288.
- Beaver, J. S. and P. N. Miklas. 1999. Registration of PR9443-4, Bean Germplasm Resistant to Bean Golden Mosaic, Common Bacterial Blight and Rust. Crop Science 39:1257.
- Beaver, J. S., P. N. Miklas and R. Echavez-Badel. 1999. Registration of Rosada Nativa Pink Bean. Crop Science 39:1257.
- Beaver, J. S., P. N. Miklas, J. D. Kelly, J. R. Steadman and J. C. Rosas. 1998. Registration

of PR9357-107 Small Red Germplasm Resistant to BCMV, BCMNV and Rust. Crop Science 38:1406-1407.

Beaver, J. S. and J. C. Rosas. 1998. Heritability of Length of Reproductive Period and Rate of Seed Mass Accumulation in Common Beans. Journal of the American Society for Horticultural Science 123(3):407-411.

Beaver, J. S. and J. R. Steadman. 1999. Adelantos en el Mejoramiento de Frijol Andino Caribeno. Agronomia Mesoamericana 10:77-82.

Beaver, J. S., M. Zapata and P. N. Miklas. 1999. Registration of PR9443-4, Bean Germplasm Resistant to Bean Golden Mosaic, Common Bacterial Blight and Rust. Crop Science 39:1262.

Beninger, C. W., G. L. Hosfield and M. G. Nair. 1998. Flavonol Glycosides from the Seed Coat of a New Manteca-Type Dry Bean (*Phaseolus vulgaris* L.). Journal of Agricultural Food Chemistry 46:2906-2910.

Bernal, G. and P. H. Graham. 2001. Diversity in the Rhizobia Associated with *Phaseolus vulgaris* L. in Ecuador, and Comparisons with Mexican Bean Rhizobia. Canadian Journal of Microbiology 47:526-534.

Berrie, L. C., K. Palmer, E. P. Rybicki, S. H. Hidayat, D. P. Maxwell and M. E. C. Rey. 1997. A New Isolate of African Cassava Mosaic Virus in South Africa. African Journal of Root and Tuber Crops 2:49-52.

Chiumia, L. C., W. A. B. Msuku, H. R. Mloza-Banda and A. B. C. Mkandawire. In press. Seed-Borne Diseases of Beans: I. Status of Seed-Borne Diseases in Dry Beans (*Phaseolus vulgaris* L.) Collected from Different Markets in Malawi. Malawi Journal of Science and Technology 6:.

Christiansen, I. and P. H. Graham. In press. Variation in Di-Nitrogen Fixation among Andean Bean (*Phaseolus vulgaris* L.) Genotypes Grown at Low and High Levels of P Supply. Field Crops Research.

Coyne, D. P. 2000. Bean-Dry. In T. C. Wehner (ed.) Vegetable Cultivar Descriptions for North America, List 24. HortScience 34:763-769.

Coyne, D. P., D. S. Nuland, D. T. Lindgren, J. R. Steadman, D. W. Smith, J. Gonzales, J. Schild, J. Reiser, L. Sutton and C. Carlson. 2000. Weihing Great Northern Disease Resistant Dry Bean. HortScience 35:310-312.

Crnov, R. and R. L. Gilbertson. 2001. Outbreak of Clover Yellow Vein Virus in a Bean Field in Colusa County, California. Phytopathology 85:444. Publication no. D-2001-0123-01N.

Davila, M., D. P. Coyne and S. P. Singh. 1998. Inheritance of a Dwarf Pale Yellow Mutant in Common Beans. Proceedings of the International American Society of Tropical Horticulture 42:429-433 (pub. in June 2000).

Elia, F. M., G. L. Hosfield, J. D. Kelly and M. A. Uebersax. 1997. Genetic Analysis and Interrelationships Between Traits for Cooking Time, Water Absorption and Protein and Tannin Content of Andean Dry Beans. Journal of the American Society for Horticultural Science 122:512-518.

Elisondo Barron, J., R. J. Pasini, D. W. Davis, D. D. Stuthman and P. H. Graham. 1998. Response to Selection for Seed Yield and Nitrogen (N²) Fixation in Common Bean (*Phaseolus vulgaris* L.). Field Crops Research (Submitted).

Ergun, M., E. T. Pappozzi, D. P. Coyne, D. Smith, S. Kachman and D. S. Nuland. 2001. Testing the Effects of Moisture on Seedcoat Color of Pinto Dry Beans. HortScience 36:302-304.

Ergun, M., E. T. Pappozzi, D. Nuland, D. P. Coyne and D. Smith. 1998. Factors Affecting Seed Coat Yellowing of Pinto Beans. HortScience 33:458.

Espinosa, V. D., C. P. Vance and P. H. Graham. 2000. Host Variation in Traits Associated with Crown Nodule Senescence in Soybean. Crop Science 40:103-109.

Estevez de Jensen, C., M. ElAraby, J. Kurle, R. Meronuck and J. A. Percich. In press. Pathogenicity of *Fusarium solani* f. sp. *Phaseoli* on Beans and Soybeans. Phytopathology xxx.

Estevez de Jensen, C., R. Meronuck and J. A. Percich. 2000. Susceptibility of Bean Cultivars to Root Rot Pathogens. Phytopathology 90:S22.

_____. 1999c. Biocontrol of Kidney Bean Root Rot in Minnesota. Phytopathology 89:S24.

Estevez de Jensen, C., J. A. Percich and P. H. Graham. In press. Dry Bean Root Rot Control with *Bacillus subtilis* in Minnesota. Field Crops Research.

Fall, A. L., P. F. Byrne, G. Jung, D. P. Coyne, M. A. Brick and H. F. Schwartz. 2001. Detection and Mapping of a Major Locus for Fusarium Wilt Resistance in Common Bean. Crop Science 41:1494-1498.

Faria, J. C. and D. P. Maxwell. 1998. Variability in Geminivirus Isolates Associated with *Phaseolus* sp. in Brazil. Phytopathology 89:262-268.

Faria, J. C., J. A. C. Souza-Dias, S. A. Slack and D. P. Maxwell. 1997. A New Geminivirus Associated with Tomatoes in the State of Sao Paulo, Brazil. Plant Disease 81:423.

Fauquet, C. M., D. P. Maxwell, B. Gronenborn and J. Stanley. 2000. Revised Proposal for Naming Geminiviruses. Archives Virology 145:1743-1761.

Ferguson, A. and B. Derman. 1999. The Politics of Knowledge in Development: Interfaces among Development Practitioners, Scientists, Fishers and Farmers in Southern Africa. In P. Peters and F. Cooper (eds.) Development Encounters: Knowledge, Ideas and Practices in Development Sites. Harvard Institute for International Development, Harvard University (Accepted).

Garrido-Rameriz, E. R., M. R. Sudarshana, R. L. Gilbertson. 2000. Bean Golden Yellow Mosaic Virus from Chiapas, México: Characterization, Pseudo Recombination with other Bean-Infecting Geminiviruses and Germplasm Screening. Phytopathology 90:1224-33.

Garrido-Rameriz, E. R., M. R. Sudarshana, W. J. Lucas, R. L. Gilbertson. 2000. Bean Dwarf Mosaic Virus BV1 Protein is a Determinant of the Hypersensitive Response and Avirulence in *Phaseolus vulgaris*. Molecular Plant-Microbe Interactions: MPMI 13:1184-95.

Gepts, P., R. Papa, A. Gonzalez-Mejia, J. Acosta-Gallegos and A. Delgado-Salinas. 1999. Human Effects on *Phaseolus vulgaris* Adaptation Before, During and After Domestication. In L. Van Raamsdonk (ed.), Proceedings of the 7th Symposium, Evolution in Man-Made Habitats, Amsterdam, August 11-15, 1998.

Gilbertson, R. L., R. Ruiz-Medrano, M. R. Sudarshana and W. J. Lucas. In press. Movement of Viruses within Plants. Encyclopedia of Plant Pathology.

Gilbertson, R. L., D. E. Ullman, R. Salati, D. P. Maxwell, E. E. Grafton-Cardwell and M. Polek. 1998. Insect-Transmitted Viruses Threaten Agriculture. California Agriculture 52:23-28.

Gonzales, J. W., D. P. Coyne and W. W. Stroup. 1998. Iron Deficiency Chlorosis and Seed Yield in Dry Edible Beans Grown on High -pH Calcareous Soils. HortScience 33:444.

Gonzalez, M., R. Rodriguez, M. E. Zavala, J. L. Jacobo, F. Hernandez, J. A. Acosta, O. Martinez and J. Simpson. 1998. Characterization of Mexican Isolates of *Colletotrichum lindemuthianum* by Using Differential Cultivars and Molecular Markers. Phytopathology 88:292-299.

Goodman, R. M., S. B. Bintrim, J. Handelsman, B. F. Quirino, J. C. Rosas, H. M. Simon and K. P. Smith. 1998. A Dirty Look: Soil Microflora and Rhizosphere Microbiology (Accepted).

Graham, P. H. 2001. Nitrogen Fixation. In M. J. Sumner et al. (eds.) Handbook of Soil Science. CRC Publications and In R. Robinson et al (eds.) Plant Science for Students, Macmillan Publisher, New York, p. 91-95.

_____. 2000. Nodule Formation in Legumes. In J. Lederberg et al. (eds.) Encyclopedia of Microbiology Second Edition. Prentice Hall Publishers, 3:407-417.

_____. 1997. Symbiotic Nitrogen Fixation. In D. Sylvia et al. (eds.) Principles and Applications of Soil Microbiology. Prentice Hall Publishing, pp. 325-347.

Graham, P. H., K. G. Ballen, C. Montealegre, R. K. Jones, B. Fischer and E. Luque. In press. Characterization of Rhizobia Associated with *Dalea spp.* in Natural Prairies and Revegetation Areas in Minnesota. Highlights of Nitrogen Fixation Research. Plenum Publishing.

Graham, P. H. and P. Ranalli. 1997. Common Bean (*Phaseolus vulgaris* L.). Field Crops Research 53:131-146.

Graham, P. H. and C. P. Vance. In press. Symbiotic Nitrogen Fixation in Soil. In G. Bitton (ed.) Encyclopedia of Environmental Microbiology. Wiley, New York.

_____. 2000. Nitrogen Fixation in Perspective: An Overview of Research and Extension Needs. Field Crops Resources 65:93-106.

_____. 2000. Applied Aspects of Symbiotic Nitrogen Fixation. Field Crops Resources, Special Issue 65:91-272.

Guner, N. and J. R. Myers. In press. Characterization of Topiary (top) an Architectural Mutant of Common Bean (*Phaseolus vulgaris* L.). Journal of the American Society of Horticultural Science.

Guzman, P., P. Gepts, S. Temple, A. B. C. Mkandawire and R. L. Gilbertson. 1998. Detection and Differentiation of *Phaeoisariopsis griseola* Isolates with the Polymerase Chain Reaction and Group-Specific Primers. Plant Disease 83:37-42.

Hanson, S. F. and D. P. Maxwell. 1999. Trans-Dominant Inhibition of Geminiviral DNA Replication by Bean Golden Mosaic Geminivirus *rep* Gene Mutants. Phytopathology 89:480-486.

Hoogenboom, G., J. W. White, J. A. Acosta-Gallegos, R. G. Gaudiel, J. R. Myers and M. J. Silbernagel. 1997. Evaluation of a Crop Simulation Model that Incorporates Gene Action. Agronomy Journal 89(4):613-620.

Hosfield, G. L., M. R. Bennink, C. W. Beninger, R. M. Engleright and M. T. Ospina. Variability for Starch Digestibility in Dry Bean (*Phaseolus vulgaris* L.). HortScience 33:471 (Abstract).

Ibarra-Perez, F. J., B. Ehdaie, K. M. Knio and J. G. Waines. 1999. Effects of Insect Tripping on Seed Yield of Common Bean. Crop Science 39:428-433.

Ijani, A. S. M., R. B. Mabagala and S. Nchimbi-Msolla. 2000. Efficacy of Different Control Methods Applied Separately and in Combination in Managing Root-Rot Nematodes (*Meloidogyne* spp.). European Journal of Plant Pathology 106:1-10.

_____. 2000. A Survey of Root-Knot Nematode Species Associated with Beans in the Morogoro Region, Tanzania. African Plant Protection 6(2) 37-41.

Johnson, W. and P. Gepts. 1999. Segregation for Performance in Recombinant Inbred Populations Resulting from Inter-Gene Pool Crosses of Common Bean (*Phaseolus vulgaris* L.). Euphytica 106:45-56.

Jovel, J., P. Rameriz, B. Valverde and L. Hilje. 1999. Determinacion de las Fuentes de Inovulo del Moteado Amarillo del Tomate (toYMov), en Guayabo, Costa Rica. Manejo Integrado de Plagas (Costa Rica), No. 54:20-26.

Jung, G., H. Ariyaratne, D. P. Coyne, J. Nienhuis, S. Hirano and C. Upper. 1999. Consistency of Detected QTL for Bacterial Brown Spot Resistance Using RAPD Markers Over Environments in Common Bean. HortScience 34:534.

Jung, G., D. P. Coyne, J. Bokosi, J. R. Steadman and J. Nienhuis. 1998. Mapping Genes from Specific and Adult Plant Resistance to Rust and Abaxial Leaf Pubescence and their Genetic Relationships using Randomly Amplified Polymorphic DNA (RAPD) Markers in Common Bean. Journal of the American Society for Horticultural Science 123:859-863.

Jung, G., J. Nienhuis, D. P. Coyne and H. M. Ariyaratne. 1998. Comparative Mapping of Three Bacterial, Three Fungal and One Virus Disease Resistance Genes in Common Bean. HortScience 33:546.

Jung, G., P. W. Skroch, D. P. Coyne, J. Nienhuis, E. Arnaud-Santana, H. M. Ariyaratne, S. M. Kaeppler and M. J. Bassett. 1997. Molecular Marker-Based Genetic Analysis of Tepary Bean-Derived Common Bacterial Blight Resistance in Different Developmental Stages of Common Bean. Journal of the American Society for Horticultural Science 122:329-337.

Jung, G., P. W. Skroch, J. Nienhuis, D. P. Coyne, E. Arnaud-Santana, H. M. Ariyaratne and J. M. Marita. 1999. Confirmation of QTL Associated with Common Bacterial Blight Resistance in Four Different Genetic Backgrounds in Common Bean. Crop Science 39:1448-1455.

Kalavacharla, V., J. R. Stavely, J. R. Myers and P. E. McClean. In press. A Common Bean Resistance Gene Analog Cosegregates with Resistance in a Deletion Mutant at the *Ur-3* Rust Resistance Locus. Molecular-Plant Microbe Interactions.

Kambewa, P. S., A. E. Ferguson and R. H. Bernstein. In press. The Use of Transaction Cost and Related Theories in an Institutional Analysis of the Smallholder Legume Seed Multiplication Schemes in Malawi. Malawi Journal of Science and Technology 6:.

Kannan, S., S. Nielsen and A. Mason. In press. Protein Digestibility-Corrected Amino Acid Scores for Bean and Bean-Rice Protein-Based Infant Weaning Food Products. Journal of Agricultural Food Chemistry.

Kannan, S., S. Nielsen, A. P. Rodriguez-Burger and A. Mason. In press. Iron and Zinc Bioavailability in Rats Red Intrinsically Labeled Bean and Bean-Rice Infant Weaning Food Products. Journal of Agricultural Food Chemistry.

Kelly, J. D. 2000. Remaking Bean Plant Architecture for Efficient Production. Advances in Agronomy 71:109-143.

_____. 1997. A Review of Varietal Response to Bean Common Mosaic Potyvirus in *Phaseolus vulgaris*. Plant Varieties and Seeds 10:1-6.

Kelly, J. D., G. L. Hosfield, G. V. Varner, M. A. Uebersax, R. A. Long and J. Taylor. 1998. Registration of Red Hawk Dark Red Kidney Bean. Crop Science 38:280-281.

Kelly, J. D., G. L. Hosfield, G. V. Varner, M. A. Uebersax and J. Taylor. 2001. Registration of Jaguar Black Bean. Crop Science 41:1647.

_____. 2000. Registration of Phantom Black Bean. Crop Science 40:572.

- _____. 1999. Registration of Kodiak Pinto Bean. Crop Science 39:292-293.
- _____. 1999. Registration of Chinook Light Red Kidney Bean. Crop Science 39:293.
- _____. 1999. Registration of Beluga Alubia Bean. Crop Science 39:294.
- _____. 1999. Registration of Matterhorn Great Northern Bean. Crop Science 39:589-599.
- _____. 1998. Registration of Mackinac Navy Bean. Crop Science 38:280.
- Kelly, J. D., J. Kolkman and K. Schneider. 1998. Breeding for Yield in Dry Bean (*Phaseolus vulgaris* L.). Euphytica 102:343-356.
- Kelly, J. D. and P. N. Miklas. 1999. Marker-Assisted Selection. In S. P. Singh (ed.) Developments in Plant Breeding Volume 7 Common Bean Improvement in the Twenty-First Century. Dordrecht, The Netherlands, Kluwer Academy.
- _____. 1998. The Role of RAPD Markers in Breeding for Disease Resistance in Common Bean. Molecular Breeding 4:1-11.
- Kelly, J. D., K. A. Schneider and J. M. Kolkman. 1999. Breeding to Improve Yield. In S. P. Singh (ed.) Developments in Plant Breeding Volume 7 Common Bean Improvement in the Twenty-First Century. Dordrecht, The Netherlands, Kluwer Academy.
- Kolkman, J. M. and J. D. Kelly. 2000. An Indirect Test using Oxalate to Determine Physiological Resistance to White Mold in Common Bean. Crop Science 40:281-285.
- Lindgren, D. , D. Nuland, D. Coyne and J. Steadman. 1998. Evaluation of Dry Bean Cultivars/Lines for Reaction to Common Blight. 1997 Biological and Cultural Tests 13:18.
- Lindgren, D., D. Nuland, J. Steadman and D. Coyne. 1998. Evaluation of Dry Bean Cultivars/Lines for Reaction to Rust. 1997 Biological and Cultural Tests 13:19.
- Lopez, E., J. A. Acosta, O. Cano R., G. Fraire V., J. Cumpian, E. N. Becerra L., B. Villar and F. J. Ugalde. 1999. Estabilidad de Rendimiento de la Linea de Frijol Negro DOR-500 en el Tropico Humedo de México. Agronomia Mesoamericana 10(2):69-74.
- Lupwayi, N. Z. and A. B. C. Mkandawire. 1997. Phosphorus, Sulphur and Molybdenum Effects on Response of *Phaseolus* Beans to Inoculation with *Rhizobium* in Malawi. African Crop Science Journal 7:242-248.
- Lupwayi, N. Z., C. L. Mkunga and A. B. C. Mkandawire. 1998. Field Screening of Rhizobium Strains for Nitrogen Fixation Potential in *Phaseolus* Beans. UNISWA Journal of Agricultural Science and Technology 2(1):139-141.
- Lupwayi, N. Z., C. Pelekani and A. B. C. Mkandawire. In press. Phosphorus Absorption Characteristics of some Soils in Malawi. Zimbabwe Journal of Agricultural Resources 34(2):.
- Mabagala, R. B. 1999. Epiphytic Bacteria from Various Bean Genotypes and their Potential

- for Biocontrol of *Xanthomonas axonopodis* pv. *phaseoli*. Tanzania Journal of Agricultural Sciences 2(1):19-26.
- Macchiavelli, R. and J. S. Beaver. 2001. Effect of Number of Seed Bulk and Population Size on Genetic Variability When Using the Multiple-Seed Procedure of SSD. Crop Science 41:1513-1516.
- Masangano, C. M. In press. Research-Extension and Farmer Linkage for the Promotion of Bean (*Phaseolus vulgaris* L.) Production in Malawi: Suggestions for Increased Technology Adoption. Malawi Journal of Science and Technology 6:.
- Mduruma, Z. O., S. Nchimbi-Msolla, S. O. W. M. Reuben and R. N. Misangu. 1998. Evaluation of Maturity Characteristics and of Yield Components of High Protein Bean (*Phaseolus vulgaris* L.) Varieties in Morogoro, Tanzania. Tanzania Journal of Agriculture Sciences, No. 1, Volume 2, p. 131-140.
- Melotto, M., R. S. Balardin and J. D. Kelly. 2000. Host-Pathogen Interaction and Variability of *Colletotrichum Lindemuthianum*. In D. Prusky, S. Freeman and M. B. Dickman (eds.) Colletotrichum Host Specificity, Pathology and Host-Pathogen Interaction. APS Press, St. Paul, MN, p. 346-361.
- Melotto, M. and J. D. Kelly. 2001. Fine Mapping of the *Co-4* Locus of Common Bean Reveals a Resistance Gene Candidate, *COK-4*, that Encodes for a Protein Kinase. Theoretical Applied Genetics 103:508-517.
- _____. 2000. An Allelic Series at the *Co-1* Locus Conditioning Resistance to Anthracnose in Common Bean of Andean Origin. Euphytica 116:143-149.
- Miklas, P. N., J. S. Beaver, J. R. Steadman, M. J. Silbernagel and G. F. Freytag. 1997. Registration of Three Bean Common Mosaic Virus-Resistant Navy Bean Germplasm. Crop Science 37:1025.
- Miklas, P., R. Delorme, V. Stone, M. J. Daly, J. R. Stavely, J. R. Steadman, M. J. Bassett and J. S. Beaver. 2000. Bacterial, Fungal and Viral Disease Resistance Loci Mapped in a Recombinant Inbred Common Bean Population (Dorado/XAN176). Journal of the American Society of Horticulture Science 125:476-481.
- Miklas, P. M., R. C. Larsen, R. Riley and J. D. Kelly. 2000. Potential Marker-Assisted Selection for *Bc-1²* Resistance to Bean Common Mosaic Potyvirus in Common Bean. Euphytica 116:211-219.
- Miklas, P. N., H. F. Schwartz, R. Nina and J. S. Beaver. 1998. Reaction of Select Tepary bean to Ashy Stem Blight and Fusarium Wilt. HortScience 33:136-139.
- Miklas, P. N., V. Stone, C. A. Urrea, E. Johnson and J. S. Beaver. 1998. Inheritance and QTL Analysis of Field Resistance to Ashy Stem Blight in Common Bean. Crop Science 38:916-921.

- Miklas, P. N., M. Zapata, J. S. Beaver and K. F. Grafton. 1999. Registration of Four Dry Bean Germplasms Resistant to Common Bacterial Blight: ICB-3, ICB-6, ICB-8 and ICB-10. Crop Science 39:594.
- Misangu, R. N., S. Nchimbi-Msolla and S. O. W. M. Reuben. In press. The Distribution and Relative Importance of Bean Bruchid Species (*Acanthoscelides obtectus* say and *Zabrotes subfasciatus* boh.) In Tanzania. Tanzania Journal of Agricultural Sciences.
- Mkandawire, A. B. C., R. B. Mabagala and R. L. Gilbertson. 2001. Genetic Diversity among Bacteria Causing Common Bacterial Blight of Bean: Evidence of Pathogen/Host Co-Evolution. Phytopathology 9:S64. Publication no. P-2001-0461-AMA.
- Mloza-Banda, H. R., A. E. Ferguson, A. B. C. Mkandawire. In press. The Common Bean (*Phaseolus vulgaris* L.) Genetic Resources in Malawi: Implications for Conservation, Breeding, and Production. Malawi Journal of Science and Technology 6:.
- Mloza-Banda, H. R., A. E. Ferguson and W. A. B. Msuku. In press. Seed-Borne Diseases of Beans II. Farmers Perceptions of Seed-Borne Diseases of Beans (*Phaseolus vulgaris* L.) in Malawi. Malawi Journal of Science and Technology 6:.
- Montasser, M. S. , A. Al-Sharidah, N. Y. Ali, M. K. Nakhla, B. L. Farag and D. P. Maxwell. 1999. A Single DNA of Tomato Yellow Leaf Curl Geminivirus Causing Epidemics in the State of Kuwait. Kuwait Journal of Science Engineering 26:127-140.
- Montoya, C. A., J. S. Beaver, R. Rodriguez, P. N. Miklas and G. Godoy-Lutz. 1997. Heritability of Resistance to Web Blight in Five Common Bean Populations. Crop Science 37:780-783.
- Mosha, T. C. E., H. S. Laswai, I. Tetens. 2000. Nutritional Composition and Micronutrient Status of Homemade and Commercial Weaning Foods Consumed in Tanzania. Plant Foods for Human Nutrition 55:185-205.
- Mutlu, N., D. P. Coyne, S. O. Park and J. R. Steadman. 1999. Backcross Breeding with RAPD Molecular Markers to Enhance Resistance to Common Bacterial Blight in Pinto Beans. HortScience 34:453.
- Mwato, I., A. B. C. Mkandawire and S. K. Mughogho. 2000. Soil Fertility Benefits from Rotation of Maize with Grain and Green Manure Legumes. African Crop Science Journal 6:34-38.
- Myers, J. R. 2000. Tomorrow s Snap Bean Cultivars. In S. Singh (ed.) Bean Research, Production and Utilization. Proceedings of the Workshop on 75 Years of Bean Research and Development. University of Idaho Press, Moscow, p. 39-52.
- Myers, J. R. and J. R. Baggett. 1999. Improvement of Snap Beans. In S. Singh (ed.) Common Bean Improvement for the 21st Century. Kluwer Academic Publications, Boston, p. 289-329.
- Myers, J. R., K. D. Stewart-Williams, R. E. Hayes, J. J. Kolar and S. Singh. 2001. Registration of UI 259 Small Red Bean. Crop Science 41:1643-1644.
- _____. 2001. Registration of UI 320 Pinto Bean. Crop Science 41:1642-1643.

- _____. 2001. Registration of UI 465 Great Northern Bean. Crop Science 41:1644-1645.
- Navarrete, R. and J. A. Acosta. 2000. Genotipos de Frijol (*Phaseolus vulgaris* L. Resistentes a *Xanthomonas campestris* pv. *Phaseoli* de México. Agronomía Mesoamericana 11(1):17-24.
- _____. 2000. Resistencia de Frijol al Tizon de Halo en el Valle de México y Progreso de la Enfermedad. Rev. Fitotecnia Mex. 23(1):17-28.
- Navarrete-Maya R. and J. A. Acosta-Gallegos. 1999. Reaccion de variedades de frijol comun a *Fusarium spp.* y *Rhizoctonia solani* en el Altiplano de México. Agronomía Mesoamericana 10(1):37-46.
- Nin, J. C., E. Arnaud-Santana, F. Saladin, G. Godoy-Lutz, D. P. Coyne, J. S. Beaver and J. R. Steadman. 2000. Registration of Anacaona White Bean. Crop Science 40:856.
- _____. 2000. Registration of Saladin-97" Red Mottled Bean. Crop Science 40:858-859.
- Padidam, M., D. P. Maxwell and C. M. Fauquet. 1997. A Proposal for Naming Geminiviruses. Archives of Virology 142:2553-2561.
- Park, S. O., D. P. Coyne, J. M. Bokosi and J. R. Steadman. 1999. Molecular Markers Linked to Genes for Specific Rust Resistance and Indeterminate Growth Habit in Common Bean. Euphytica 105:133-141.
- Park, S. O., D. P. Coyne, A. Dursun and G. Jung. 1998. Identifying Randomly Amplified Polymorphic DNA (RAPD) Markers Linked to Major Genes for Common Bacterial Blight Resistance in Tepary Bean. Journal of the American Society for Horticultural Science 123:278-282.
- Park, S. O., D. P. Coyne and G. Jung. 1998. Gene Estimation, Associations of Traits and Confirmation of QTL for Common Bacterial Blight Resistance in Common Bean. HortScience 33:499.
- Park, S. O., D. P. Coyne, G. Jung, E. Arnaud-Santana and H. Ariyaratne. 1998. Detection and Mapping RAPD Markers Associated with QTL Affecting Seed Size and Shape in Common Bean. HortScience 33:546.
- Park, S. O., D. P. Coyne, G. Jung, P. Skroch, E. Arnaud-Santana, J. R. Steadman. 2000. Mapping of QTL for Seed Size and Shape Traits in Common Bean. HortScience 35:491.
- Park, S. O., D. P. Coyne, G. Jung, P. Skroch, E. Arnaud-Santana, J. R. Steadman, H. M. Ariyaratne and J. Nienhuis. 2000. Mapping of QTL for Seed Size and Shape Traits in Common Bean. Journal of the American Society of Horticultural Science 125:466-475.
- Park, S. O., D. P. Coyne, N. Mutlu, G. Jung and J. R. Steadman. 1999. Confirmation of Molecular Markers and Flower Color Associated with QTL for Resistance to Common Bacterial Blight in Common Bean. Journal of the American Society for Horticultural Science 124:519-526 and HortScience 34:454.

- Park, S. O., D. P. Coyne and J. R. Steadman. 2000. Molecular Markers Linked to the Ur-6 Gene Controlling Specific Rust Resistance in Common Bean. HortScience 35:396.
- _____. 1999. Molecular Markers Linked to the Ur-7 Gene Conferring Specific Resistance to Rust in Common Bean. HortScience 34:454.
- Park, S. O., D. P. Coyne, J. R. Steadman and G. Jung. 1999. Mapping of Molecular Markers and Seed Coat Pattern Associated with QTL Affecting White Mold Resistance in Common Bean. HortScience 34:534.
- Park, S. O., D. P. Coyne, J. R. Steadman and P. W. Skroch. 2001. Mapping of QTL for Resistance to White Mold Diseases in Common Bean. Crop Science 41:1253-1262.
- Park, S. O., D. P. Coyne, J. R. Steadman, P. W. Skroch and G. Jung. 2000. Mapping of QTL for Partial Physiological Resistance and Field Reaction to White Mold, Plant Architecture and Plant Height in Common Bean. HortScience 35:490.
- Pazdernik, D. L., P. H. Graham and J. H. Orf. 1997. Heritability in the Early Nodulation of F₃ and F₄ Soybean Lines. Canadian Journal of Plant Science 77:201-205.
- _____. 1997. Variation in the Pattern of Dinitrogen Fixation and Nitrogen Distribution of Soybean. Crop Science 37:1482-1486.
- Pazdernik, D. L., C. P. Vance, M. J. Sadowsky, P. H. Graham and J. H. Orf. 1997. A Host Controlled Serogroup-Specific Ineffective Nodulation System in the *Bradyrhizobium*-Soybean (*Glycine max* L. Merr.) Symbiosis. MPMI 10:994-1001.
- Perrin, R., J. Poor and D. P. Coyne. 2000. Economic Impact of the Chase Variety of Pinto Bean. University of Nebraska Cooperative Extension RB 338, p. 1-8.
- Phiri, M. A. R., R. Chirwa, S. Kandoole and R. Tripp. In press. Introducing New Bean (*Phaseolus vulgaris* L.) Varieties with Small Packs: Experiences from Malawi. Malawi Journal of Science and Technology 6:.
- Potter, J. L., M. M. Roca de Doyle, M. K. Nakhla and D. P. Maxwell. 2000. First Report and Characterization of *Rhynchosia* Golden Mosaic Virus in Honduras. Plant Disease 84:1045.
- Ramirez-Vallego, P. and J. D. Kelly. 1998. Traits Related to Drought Resistance in Common Bean. Euphytica 99:127-136.
- Rannali, P. and P. H. Graham (eds.). 1997. Grain Legumes. Field Crops Research, Special Volume, 53, p. 218.
- Rodriguez-Burger, A. P., A. Mason and S. S. Nielsen. 1998. Use of Fermented Black Beans Combined with Rice to Develop a Nutritious Weaning Food. Journal of Agricultural and Food Chemistry 46:4806-4813.
- Rosales- Serna, R., R. Ochoa Márquez y J. A. Acosta-Gallegos. 2001. Adaptación fenológica

y rendimiento de grano del frijol en el altiplano de México. Submitted to Agrociencia.

Rosales-Serna, R., P. Ramirez-Vallego, J. A. Acosta-Gallegos, F. Castillo-Gonzales and J. D. Kelly. 1998. Rendimiento de Grano y Adaptacion del Frijol Comun en Condiciones Variables de Disponibilidad Hidrica. Agrociencia (Mexico) 34:153-165.

Rosas, J. C. In press. Exeriencias en la aplicacion de metodologias participativas para el mejoramiento genetico del frijol comun en Centro America. Agronomia Mesoamericana 12(2):000-000.

Rosas, J. C., A. Castro, J. Beaver, C. A. Perez, A. Morales and R. Lepiz. 2000. Mejoramiento Genetico para Tolerancia a Altas Temperaturas y Resistencia a Mosaico Dorado en Frijol Comun. Agronomia Mesoamericana 11(19):1-10.

Rosas, J. C., J. A. Castro and E. D. Flores. 2000. Mejoramiento Genetico del Frijol Rojo y Negro Mesoamericano para Centro America y El Caribe. Agronomia Mesoamericana 11(2):37-46.

Rosas, J. C., J. A. Castro, E. A. Robleto and J. Handelsman. 1998. A Method for Screening *Phaseolus vulgaris* L. Germplasm for Preferential Nodulation with a Selected *Rhizobium etli* Strain. Plant and Soil 203:71-78.

Rosas, J. C., O. I. Varela and J. S. Beaver. 1997. Registration of Tio Canela 75" Small Red Bean. Crop Science 37:1391.

Roye, M. E., W. A. McLaughlin, M. K. Nakhla and D. P. Maxwell. 1997. Genetic Diversity Among Geminiviruses Associated with the Weed Species *Sida* spp., *Macroptilium lathyroides*, and *Wissadula amplissima* from Jamaica. Plant Disease 81:1251-1258.

Roye, M. E., W. A. McLaughlin, J. D. Spence and D. P. Maxwell. 1999. The Common Weed *Macroptilium lathyroides* is not a Source of Crop-Infecting Geminiviruses from Jamaica. Tropical Agriculture (Trinidad) 76:256-262.

Roye, M. E., M. E. Wernecke, W. A. McLaughlin, M. K. Nakhla and D. P. Maxwell. 1999. Tomato Dwarf Leaf Curl Virus, a New Bipartite Geminivirus Associated with Tomatoes and Peppers in Jamaica and Mixed Infection with Tomato Yellow Leaf Curl Virus. Plant Pathology 48:370-378.

Sadowsky, M. J. and P. H. Graham. In press. Root- and Stem-Nodule Bacteria. In The Prokaryotes.

_____. 1998. Soil Biology of the Rhizobiaceae. In H. P. Spaink et al. (eds.) The Rhizobiaceae. Kluwer Academic, Dordrecht, pp. 155-172.

Saladin, F., E. Arnaud-Santana, J. C. Nin, G. Godoy-Lutz, J. S. Beaver, D. P. Coyne and J. R. Steadman. 2000. Registration of PC-50" Red Mottled Bean. Crop Science 40:858.

Sandlin, C. M., J. R. Steadman, C. M. Araya and D. P. Coyne. 1999. Isolates of *Uromyces appendiculatus* with Specific Virulence to Landraces of *Phaseolus vulgaris* of Andean Origin.

Plant Disease 83:108-113.

Santana, E. A., G. Godoy-Lutz, J. C. Nin, F. Saladin, J. S. Beaver, D. P. Coyne and J. R. Steadman. 1998. Development of Five Tropically Adapted Disease Resistant Dry Bean Varieties. HortScience 33:499.

Schneider, K. A., M. E. Brothers and J. D. Kelly. 1997. Marker-Assisted Selection to Improve Drought Resistance in Common Bean. Crop Science 37:51-60.

Schneider, K. A., K. F. Grafton and J. D. Kelly. 2001. QTL Analyses of Resistance to *Fusarium* Root Rot in Bean. Crop Science 41:535-542.

Schneider, K. A. and J. D. Kelly. 2000. A Greenhouse Screening Protocol for *Fusarium* Root Rot in Bean (*Phaseolus vulgaris* L.) HortScience 35:1095-1098.

Schneider, K. A., R. Rosales-Serna, F. Ibarra-Perez, B. Cazares-Enriquez, J. A. Acosta-Gallegos, P. Ramirez-Vallejo, N. Wassimi and J. D. Kelly. 1997. Improving Common Bean Performance Under Drought Stress. Crop Science 37:43-50.

Seguin, P., P. H. Graham, C. C. Sheaffer, N. J. Ehlke and M. P. Russelle. In press. Genetic Diversity of Rhizobia Nodulating *Trifolium ambiguum* in North America. Canadian Journal of Microbiology.

Seguin, P., M. P. Russelle, C. C. Sheaffer, N. J. Ehlke and P. H. Graham. In press. Dinitrogen Fixation in Kura Clover and Birsfoot Trefoil. Agronomy Journal.

Steadman, J. R., G. Jung, M. Shaver Adams, K Powers and B. Higgins. 1998. Random Amplified Polymorphic DNA Distinguished Three Species of *Sclerotinia* but not Pathogenic Variability in *S. Sclerotiorum* Isolates from Diverse Host and Geographic Origin. Phytopathology 88(9):585.

Steadman, J. R., D. O Keefe, E. Kerr and D. Lingren. 1997. Use of a Mobile Nursery to Monitor Pathogenic Variability in Bean Rust. Phytopathology 87(6):593.

Strausbaugh, C. A., J. R. Myers, R. L. Forster and P. E. McClean. 1999. *Bc-1* and *Bc-u*, Two Loci Controlling Bean Common Mosaic Virus Resistance in Common Bean are Linked. Journal of the American Society of Horticultural Science 124:644-648.

Urrea, C. A., P. N. Miklas and J. S. Beaver. 1999. Inheritance of Resistance to Common Bacterial Blight in Four Tepary Bean Lines. Journal of the American Society of Horticultural Science 124:24-27.

Vance, C. P., P. H. Graham and D. L. Allan. 2000. Biological Nitrogen Fixation: Phosphorus a Critical Future Need. In F. Pederosa et al. (eds.) Nitrogen Fixation from Molecules to Crop Productivity. Kluwer Publishers, Dordrecht, The Netherlands, p. 509-514.

Velez, J., M. J. Bassett, J. S. Beaver and A. Molina. 1998. Inheritance of Resistance to Bean Golden Mosaic Virus in Common Bean. Journal of the American Society for Horticultural Science 123(4):628-631.

- Viquez, R. F. and L. A. Bonillar. 2000. Determinacion de la Composicion Fisicoquimica y de la Digestibilidad *in vitro* de dos Variedades de Frijol Comun (*Phaseolus vulgaris* L.). Estimacion del Contenido de Pectina y Celulosa en el Residuo Indigerible. REVITECA 7:14-18.
- Walters, K. J., G. L. Hosfield, M. A. Uebersax and J. D. Kelly. 1997. Navy Bean Canning Quality: Correlations, Heritability Estimates and Randomly Amplified Polymorphic DNA Markers Associated with Component Traits. Journal of the American Society for Horticultural Science 122:338-343.
- Wang, H. -L., M. R. Sudarshana, R. L. Gilbertson and W. J. Lucas. 1999. Analysis of Cell-to-Cell and Long-Distance Movement of Bean Dwarf Mosaic Geminivirus-Green Fluorescent Protein Reporter in Host and Non-Host Species: Identification of Sites of Resistance. Molecular Plant Microbe Interactions 12:345-355.
- Yabba, M. D., E. F. Foster, M. C. Palada and J. Beaver. In press. Drought Resistance of Caribbean and Central American Common Bean (*Phaseolus vulgaris* L.) Lines.
- Young, R. A. and J. D. Kelly. 1997. RAPD Markers Linked to Three Major Anthracnose Resistance Genes in Common Bean. Crop Science 37:940-946.
- Young, R. A., M. Melotto, R. O. Nodari and J. D. Kelly. 1998. Marker-Assisted Dissection of the Oligogenic Anthracnose Resistance in Common Bean Cultivar, G 2333. Theoretical Applied Genetics 96:87-94.
- Yu, K., S. J. Park, V. Poysa and P. Gepts. 2000. Integration of Simple Sequence Repeat (SSR) Markers into a Molecular Linkage Map of Common Bean (*Phaseolus vulgaris* L.). Journal of Heredity 91(6):429-434.
- Yuen, G. Y., E. D. Kerr, J. R. Steadman, D. T. Lindgren and D. Schaaf. 1998. Evaluations of Bacteria and Chitin for Bean Rust Control. 1996 and 1997 Biological and Cultural Tests 13:20.
- Yuen, G. Y., J. R. Steadman, D. T. Lingren, D. Schaff and C. Jochum. 2001. Bean Rust Biological Control Using Bacterial Agents. Crop Protection 20:395-402.
- Zeidan, M., S. K. Green, D. P. Maxwell, M. K. Nakhla and H. Czosnek. 1998. Molecular Analysis of Whitefly-Transmitted Tomato Geminiviruses from Southeast and East Asia. Tropical Agricultural Research and Extension 1:107-115.
- Zhang, Z., D. P. Coyne and A. Mitra. 1997. Factors Affecting Agrobacterium-Mediated Transformation of Common Bean. Journal of the American Society for Horticultural Science 122:300-305.

Zhang, Z., D. P. Coyne, A. K. Vidaver and A. Mitra. 1998. Expression of Human Lactoferrin DNA Confers Resistance to *Pseudomonas solanacearum* in Transgenic Tobacco Plants. Phytopathology 88:730-734.

Zhu, Y., C. C. Sheaffer, C. P. Vance, P. H. Graham, M. P. Russelle and C. M. Montealegre. 1998. Inoculation and Nitrogen Affect Herbage and Symbiotic Properties of Annual Medicago Species. Agronomy Journal 90:781-786.

B. TECHNICAL REPORTS, WORKING PAPERS, EXTENSION BULLETINS

Acosta-Diaz, E. 1998. Early Vigor as a Selection Criteria for Adaptation to Drought Stress in Common Bean. Annual Report of the Bean Improvement Cooperative 41:153-154.

Acosta-Diaz, E., J. A. Acosta-Gallegos, I. Cuellar-Robles, J. D. Kelly and R. Bernsten. 2000. Adoption of New Bean Cultivars for Rainfed Conditions in Zacatecas, México. Annual Report of the Bean Improvement Cooperative 43:182-183.

Acosta-Diaz, E., J. A. Acosta-Gallegos and J. S. Padilla-Ramirez. 1999. Agronomic Traits in Early Stages As an Indirect Selection Criterion in Common Bean under Intermittent Drought. Annual Report of the Bean Improvement Cooperative 42:73-74.

Acosta-Gallegos, J. A., E. Acosta-Diaz, S. Padilla-Ramirez, E. Lopez-Salinas, R. A. Salinas-Perez, N. Mayek-Perez and J. D. Kelly. 1998. Seed Yield of Dry Bean Cultivars Under Drought Stress. Annual Report of the Bean Improvement Cooperative 41:151-152.

Acosta-Gallegos, J. A., T. S. Herrera-Flores, B. Aguilar-Garcia and P. Gepts. 1999. Seed Yield of Segregating Populations of Cultivated x Wild *Phaseolus vulgaris*. Annual Report of the Bean Improvement Cooperative 42:93-94.

Acosta-Gallegos, J. A., F. J. Ibarra-Pérez, B. Cázares Enriquez, A. Castillo-Rosales, R. Rosales-Serna, J. D. Kelly and S. P. Singh. 2001. Notice of Naming and Release of Flor de Mayo 2000, a New Mid-Season, Disease Resistant, Drought Adapted flor-de-mayo Cultivar for the Highlands of Mexico. Annual Report of the Bean Improvement Cooperative 44:195-196.

Acosta-Gallegos, J. A., F.J. Ibarra-Pérez, B. Cázares Enriquez, A. Castillo-Rosales, R. Rosales-Serna, J. D. Kelly and S. P. Singh. 2001. Notice of Naming and Release of Negro Vizcaya, a New Mid-Season, Disease Resistant, Shiny Black Bean, Drought Adapted Cultivar for the Highlands of Mexico. Annual Report of the Bean Improvement Cooperative 44:193-194.

Acosta-Gallegos, J. A., R. Rosales-Serna, G. Esquivel-Esquivel and J. W. White. 2000. Yield and Phenology Stability of Neutral and Photoperiod Sensitive Bean Cultivars in the Highlands of México. Annual Report of the Bean Improvement Cooperative 43:214-215.

Aguirre-Medina, J. F., C. L. Trejo, J. Kohashi-Shibata and J. A. Acosta-Gallegos. 1998. Physiological Response of Bean (*Phaseolus vulgaris* L.) To Water Stress in a Split-Root System. Annual Report of the Bean Improvement Cooperative 41:208-209.

Aguirre-Medina, J. F., J. Kohashi-Shibata, C. L. Trego and J. A. Acosta-Gallegos. 2000.

Influence of Rapid Soil Drying on the Stomatal Conductance of Three Bean (*Phaseolus vulgaris* L.) Varieties under the Split-Root System. Annual Report of the Bean Improvement Cooperative 43:218-219.

Aguirre, J. F., L. P. Ruiz, J. Kohashi-Shibata, C. Trejo and J. A. Acosta-Gallegos. 1999. Morphological Observations on the Leaf Surface of *Phaseolus vulgaris* L. and their Possible Relationship to Stomatal Response. Annual Report of the Bean Improvement Cooperative 42:75-76.

Araya, C. M. and J. R. Steadman. 1998. Variation in Virulence Telia Production and RAPD Pattern Among Isolates of the Bean Rust Pathogen from the Americas. Annual Report of the Bean Improvement Cooperative 41:23-24 and Caribbean Division American Phytopathological Society.

Ariyaratne, H. M., D. P. Coyne, A. K. Vidaver and K. M. Eskridge. 2001. Pathogenic Variation in *Pseudomonas syringae* pv *phaseolicola* Strains on Common Beans. Annual Report of the Bean Improvement Cooperative 44:129-130.

Arnaud-Santana E., D. P. Coyne and J. R. Steadman. 1998. Inheritance and Heritabilities of the Reaction to Web Blight Disease, Plant Architecture and their Associations in Dry Beans. Annual Report of the Bean Improvement Cooperative 41:29-30.

Arnaud-Santana, E., D. Herrera and S. Nova. 1998. Control de Malexa en El Cultivo de Habichuelas. Hoja Divulgativa No. 1.

Arnaud-Santana, E., A. de los Santos and S. Nova. 1997. Guia Practica para la Produccion de Semillas de Habichuelas de Buena Calidad. Hoja Divulgativa No. 1.

Awale, H. E. and J. D. Kelly. 2001. Development of SCAR Markers Linked to the Co-4² Gene in Common Bean. Annual Report of the Bean Improvement Cooperative 44:119-120.

Baggett, J. R., M. Hessel and J. R. Myers. 1999. Relationship of Persistent Green (*pc*) with Wax Pod (*y*) in Snap Beans. Annual Report of the Bean Improvement Cooperative 42:117-118.

_____. 1999. Inheritance of Persistent Chlorophyll (*pc*) and its Relationship with Immature White Seed. Annual Report of the Bean Improvement Cooperative 42:115-116.

Balardin, R. S. and J. D. Kelly. 1998. Molecular Characterization of Variability in *Colletotrichum lindemuthianum*. Annual Report of the Bean Improvement Cooperative 41:19-20.

Beaver, J. S. and R. Macchiavelli. 1998. Breeding Strategies for Pyramiding Genes for Disease Resistance. Annual Report of the Bean Improvement Cooperative 41:141-142.

Beaver, J. S. and R. Echavez-Badel. 1999. Notice of Naming and Release of Rosada Nativa; A Bean Golden Mosaic Resistant Pink Bean for Puerto Rico. Annual Report of the Bean Improvement Cooperative 42:138.

Beaver, J. S., P. Miklas. 1999. Notice of Naming and Release of Morales; A Bean Golden Mosaic Resistant Small White Bean Cultivar for Puerto Rico. Annual Report of the Bean

Improvement Cooperative 42:137.

Beaver, J. S., M. Zapata and P. Miklas. 1999. Notice of Release of PR9443-4; A Bean Golden Mosaic, Rust and Common Bacterial Blight Resistant Light Red Kidney Bean Germplasm. Annual Report of the Bean Improvement Cooperative 42:139.

Boosalis, M. J., J. R. Steadman, K. Powers and B. Higgins. 2000. New Methods for Production, Recovery, Delivery and Storage of Ascospores at *Sclerotinia sclerotiorum* and Other Fungal Propagules. Annual Report of the Bean Improvement Cooperative 43:156-157.

Burgos, P. A., Y. Mora, J. Acosta, J. Castellanos, O. Acuña, H. Peralta, and J. Mora. 2001. Response of *Phaseolus vulgaris* L. Cultivars to Inoculation with High Efficiency Rhizobium Strains in Experimental Fields in Mexico: Effect of Different Irrigation Systems. Submitted to Plant and Soil.

Caicedo, C. and E. Peralta. 1999. Chocho, Frejol and Arveja, Leguminosas de Grano Comestible, con un gran Mercado Potencial en Ecuador. INIAP, p. 36.

Campo-Arana, R. and R. Echavez-Badel. 2001. Morphological, Physiological and Biochemical Characteristics of *Macrophomina phaseolina* Isolates Collected in Puerto Rico and the Dominican Republic. Annual Report of the Bean Improvement Cooperative 44:127-128.

Chiumia, L. and W. Msuku. 2001. Status of Common Bean Mosaic Virus in Common Beans in Malawi. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001. <http://eastafricaCRSP.wsu.edu/workshop0101/proceedingsTOC.html>

Coyne, D. P. 1999. Breeding Great Northern and Pinto Dry Beans with Multiple Disease Resistance Combined with Improved Seed Quality, Yield and Plant Type. Annual Report, Nebraska Dry Bean Commission, March 8, p. 1-23.

Coyne, D. P., S. O. Park, J. R. Steadman and P. W. Skroch. 2001. Breeding, Genetics and Mapping of QTL for Architectural Avoidance and Physiological Resistance to White Mold in Common Bean. Proceedings of Sclerotinia 2001 The XI International Sclerotinia Workshop, York, England: Central Science Laboratory, July 8-12, p. 93-94. (Abstract)

Cuellar, R. E. I., F. J. Ibarra-Perez, J. J. Munoz Ramos, J. M. Valdes Garcia, A. Castillo Rosales and A. Pajarito Ravelero. 1998. Tecnologias para Aumentar la Productividad del Frijol en Durango. Publicacion Especial Num. 12. SAGAR-INIFAP.

De los Santos, A., E. Arnaud-Santana and S. Nova. 1997. Guia Practica de Manejo Post Cosecha de Semillas de Habichuelas. Hoja Divulgativa No. 2.

Echavez-Badel, R., M. Alameda and J. S. Beaver. 2000. Methodology for Screening Bean Germplasm for Charcoal Rot Resistance. Annual Report of the Bean Improvement Cooperative 43:176-177.

Engleright, R. M., M. R. Bennink and G. L. Hosfield. 1999. Determination of Total Dietary Fiber and Indigestible Protein in Dry Bean (*Phaseolus vulgaris* L.). Annual Report of the Bean

Improvement Cooperative 42:123-124.

Estevez de Jensen, C. J. E. Kurle and J. A. Percich. 2001. A Comparison of Chisel and Moldboard Tillage on Dry Bean and Soybean Yield and Root Rot Severity in Minnesota. Annual Report of the Bean Improvement Cooperative, p. 44, 79.

Estevez de Jensen, C., R. Meronuck and J. A. Percich. 2000. Field and Greenhouse Evaluation of *Bacillus subtilis* to Control Bean Root Rot in Minnesota. Northharvest Bean Growers Association. Research Report, p. 10-13.

_____. 2000. Efficacy of *Bacillus subtilis* and Two *Rhizobium* Strains for the Management of Bean Root Rot in Minnesota. Annual Report of the Bean Improvement Cooperative 43:33-34.

Estevez de Jensen, C., R. Meronuck, J. A. Percich and K. Grafton. 1999a. Control of Kidney Root Rot in Minnesota, 1998. Northharvest Bean Grower Association Research Report, p. 14-15.

Estevez de Jensen, C., R. Meronuck, J. A. Percich and R. Winberg. 2000. Winter Survival of Kidney Bean Root Rot Pathogens in Various Crop Residues. Annual Report of the Bean Improvement Cooperative 43:70-71.

Estevez de Jensen, C., J. A. Percich and P. Graham. 2001. The Performance of a Co-Formulation of *Bacillus subtilis* plus *Rhizobium* and their Effect on Dry Bean Root Rot in Minnesota. Annual Report of the Bean Improvement Cooperative, p. 44, 81.

Gepts, P., A. Gonzalez, R. Papa, J. Acosta, A. Wong and A. Delgado Salinas. 2000. Outcrossing in Mexican Wild and Domesticated Populations of Common Bean. Annual Report of the Bean Improvement Cooperative 43:25-26.

Gilbertson, R. 2001. Detection of Bean Infecting Viruses in California with an Emphasis on the CRSP Facilitated Work. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001. <http://eastafrikaCRSP.wsu.edu/workshop0101/proceedingsTOC.html>.

Godoy-Lutz, G., J. Arias, E. Arnaud-Santana and J. R. Steadman. 1999. Web Blight Tolerance in Red Mottled Bean Lines in the Dominican Republic. Phytopathology 89:S91.

_____. 1998. Web Blight Affects Seed Yield and Quality of Red Mottled Bean/Lines Cultivars in the Dominican Republic. Annual Report of the Bean Improvement Cooperative 41:66-67.

Godoy-Lutz, G. and J. R. Steadman. 1998. Characterization of the Web Blight Pathogen Infecting Wild Beans in the Remote Areas of Northern Argentina. Annual Report of the Bean Improvement Cooperative 41:72-73.

Godoy-Lutz, G., J. R. Steadman, K. Powers and B. Higgins. 2000. DNA Variation and Virulence among Isolates Causing Web Blight on Common Beans. Annual Report of the Bean Improvement Cooperative 43:72-73.

Gomez-Roldan, M. C., P. Perez-Herrera, J. Valdes-Carrasco and J. A. Acosta-Gallegos. 1999. Characteristics of the Seed Coat in Wild and Cultivated *Phaseolus vulgaris* L. Annual Report of the Bean Improvement Cooperative 42:91-92.

Gonzales, J. W., D. P. Coyne, D. Lingren and G. Jung. 2001. Inheritance and Heritability of Leafhopper Resistance in Common Beans (*Phaseolus vulgaris*). Annual Report of the Bean Improvement Cooperative 44:139-140.

Gonzales, J. W., D. P. Coyne, W. W. Stroup and C. Carlson. 1998. Variation for Iron-Induced Deficiency Chlorosis and Response to Foliar Cross Sprays in Dry Beans Grown on High pH Calcareous Soil. Annual Report of the Bean Improvement Cooperative 41:200-201.

Goytia-Jimenez, M. A., J. A. Acosta-Gallegos, S. Padilla-Ramirez, J. Ortiz-Cereceres and J. D. Kelly. 1998. Heritability of Seed Yield in Common Bean Under Irrigated and Drought Stressed Conditions. Annual Report of the Bean Improvement Cooperative 41:149-150.

Graham, P. H. In press. Nitrogen Fixation. In M. J. Sumner et al (eds.) Handbook of Soil Science.

_____. In press. Nitrogen Formation in Legumes. In J. Lederberg et al. (eds.) Encyclopedia of Microbiology. Prentice Hall Publishers.

_____. 1998. Internationalization of the Coursework in Soil Science and Agronomy, with an Emphasis Toward Latin America. In J. A. Mestenhauser and B. Ellingboe (eds.) American Council on Education. Oryx Press, pp. 129-138.

Graham, P. H., K. G. Ballen, C. Montealegre, R. K. Jones, B. Fischer and E. Luque. 1999. Characterization of Rhizobia Associated with Dalea spp. in Natural Prairies and Revegetation Areas in Minnesota. In E. Martínez and G. Hernandez (eds.) Highlights of Nitrogen Fixation Research. New York, NY: Kluwer/Plenum, pp. 69-75.

Guner N. and J. R. Myers. 2000. Characterization of a Mutant Conferring Novel Plant Habit in Common Bean. Annual Report of the Bean Improvement Cooperative 43:96-97.

Guzman-Maldonado, H. S., J. Acosta-Gallegos and O. Paredes-López. 2000. Protein and Mineral Content of a Novel Collection of Wild and Weedy Common Bean (*Phaseolus vulgaris* L.). Journal of Science Food and Agriculture 80:1874-1881.

Hanson, S. F. and D. P. Maxwell. 2000. Trans-Dominant Inhibition of Geminiviral DNA Replication by Geminivirus REP Gene Mutants. U.S. Patent No. 6, 118,048, September 12.

Hosfield, G. L. 2001. Seed Coat Color in *Phaseolus vulgaris* L.:Its Chemistry and Associated Health-Related Benefits. Annual Report of the Bean Improvement Cooperative.

Hosfield, G. L. and J. L. Beaver. 2001. Cooking Time in Dry Bean and Its Relationship to Water Absorption. Annual Report of the Bean Improvement Cooperative 42:119-120.

Hosfield, G. L., J. D. Kelly and M. A. Uebersax. 2001. Notice of Release of New Small-Red Dry Bean (*Phaseolus vulgaris*, L.) Germplasm Lines: ARS-R93344, ARS-R93346, and ARS-

R93349. Annual Report of the Bean Improvement Cooperative 44:179-180.

Ibarra-Perez, F., J. B. Ehdaie and J. G. Waines. 2000. Re-Thinking the Population Structure of Common Bean. Annual Report of the Bean Improvement Cooperative 43:23-24.

Iniestra-Gonzalez, J. J., F. J. Ibarra-Perez, H. Medrano-Roldan, N. E. Rocha-Guzman, M. A. Gallegos-Infante and R. F. Gonzalez-Laredo. 2001. Antinutritional Factors and Antioxidative Activity of Improved Common Bean Cultivars. Annual Report of the Bean Improvement Cooperative 44:167-168.

Jacinto-H., C., S. Aspiroz-Rivera, J. A. Acosta-Gallegos, H. Hernandez-S., M. Baltazar-Baltazar and I. Bernal-Lugo. 1999. Seed Physical Traits and Inheritance of Cooking Time in Recombinant Bean Inbred Lines. Annual Report of the Bean Improvement Cooperative 42:125-126.

Jacinto-Hernández, C., J. G. Iturbide-Portillo and D. Rubio-Hernández. 2001. Effects of Accelerated Storage on Culinary and Nutritional Quality of Common Bean (*Phaseolus vulgaris* L.). Annual Report of the Bean Improvement Cooperative 44:151.

Jung, G., S. Beebe, J. Nienhuis, S. Park, D. Coyne, J. Marita, F. Pedraza and J. Tohme. 1998. Development of SCAR Markers Linked to Common Bacterial Blight Resistance Genes (QTL) in Common Bean. Annual Report of the Bean Improvement Cooperative 41:97-98.

Kashuliza, A. K. and N. Hatibu. 1998. Development Vision 2025 for Tanzania: Some Reflections on Agriculture. Report prepared for Economic and Social Research Foundation (ESRF) and Government of Tanzania, Dar es Salaam, May.

Kashuliza, A. K., J. P. Hella, F. T. Magayane and Z. S. K. Mvena. 1998. The Role of Informal and Semi-Formal Finance in Poverty Alleviation in Tanzania: Results of a Field Study in Two Regions. Research on Poverty Alleviation (REPOA) Report No. 98.1, Dar es Salaam ISSN 0856-41817.

Kelly, J. D. 2000. Anthracnose Races Present on Both Wild and Cultivated *Phaseolus vulgaris* in México. Annual Report of the Bean Improvement Cooperative 43:184-185.

_____. 1998. Bean Roots - A Plant Breeder s Perspective. Annual Report of the Bean Improvement Cooperative 41:214-215.

Kelly, J. D., G. L. Hosfield and M. Uebersax. 2000. Notice of Naming and Release of Jaguar, New Mid-Season, Upright, Disease Resistance Black Bean Cultivar for Michigan and the Great Lakes Region. Annual Report of the Bean Improvement Cooperative 43:222-223.

Kelly, J. D., J. Taylor, G. L. Hosfield, M. A. Uebersax and G. V. Varner. 1998. Notice of Naming and Release of Materhorn Great Northern Bean. Annual Report of the Bean Improvement Cooperative 41:235-236.

_____. 1998. Notice of Naming and Release of Kodiak Pinto Bean. Annual Report of the Bean Improvement Cooperative 41:237-238.

_____. 1998. Notice of Naming and Release of Chinook 2000 Light Red Kidney Bean. Annual Report of the Bean Improvement Cooperative 41:239-240.

_____. 1998. Notice of Naming and Release of Beluga Alubia Bean. Annual Report of the Bean Improvement Cooperative 41:241-242.

Lee, T. J., D. P. Coyne, Z. Zhang, T. E. Clements and A. Mitra. 2001. Approaches to Develop an Agribacterium Mediated Transformation System via Direct Shoot Organogenesis in Common Bean (*Phaseolus vulgaris* L.). Annual Report of the Bean Improvement Cooperative 44:37-38.

Lindgren, D., D. Nuland, D. Coyne and J. Steadman. 1999. Evaluation of Dry Bean Cultivars/Lines for Reaction to Common Blight. 1998 Biology and Cultural Tests for Control of Plant Diseases 14:22.

Lindgren, D., D. Nuland, J. Steadman and D. Coyne. 1999. Evaluation of Cultivars in 1999 for Performance and Disease Reaction, p. 6 (for distribution to bean growers in Nebraska).

Lopez-Salinas, J., A. Acosta-Gallegos, H. E. Awale and J. D. Kelly. 2000. An Unusual Outbreak of Anthracnose in the Lowlands of Veracruz, México. Annual Report of the Bean Improvement Cooperative 43:184-185.

Mabagala, R. B., C. N. Mortensen and S. B. Mathur. In press. Common and Halo Blights of Beans in Tanzania, Field Inspection and Certification Procedures. Technical Bulletin.

Martínez, T., A. Murillo, P. Paez and S. Rodríguez. 2000. Elaboracion de los Contenidos de los Mensajes de una Campana Educativa para Aumentar el Consumo de Frijol en una Comunidad del Area Urbana de Clase Media. Seminario de Graduacion para Optar por el Grado de Licenciatura. Escuela de Nutricion, Universidad de Costa Rica, San Jose, Costa Rica.

Maxwell, D. P., S. F. Hanson, J. C. Faria and R. L. Gilbertson. 2000. Deteccion Molecular de Geminivirus del Frijol Comun y Estrategias Antivirales. El Mosaico Dorado: 40 Anos de Investigacion Colaborativa. Translated by F. Morales. Published by CIAT, p. 99-106.

Mayek-Perez, N. and J. A. Acosta-Gallegos. 1998. Resistance of Wild *Phaseolus vulgaris* to *Macrophomina phaseolina* Under Controlled Conditions. Annual Report of the Bean Improvement Cooperative 41:111-112.

Mayek-Perez, N., C. Lopez-Castañeda, M. Gonzalez-Chavira, R. Garcia-Espinoza, J. A. Acosta-Gallegos, O. Martínez de la Vega and J. Simpson. 2001. Variability of Mexican Isolates of *Macrophomina phaseolina* Based on Pathogenesis and AFLP Genotype. Molecular Plant Pathology (accepted).

Mayek-Perez, N. C. Lopez-Castanenda, E. Lopez-Salinas, J. Cumpian-Gutierrez, I. C. Joaquin-Torres and J. A. Acosta-Gallegos. 1999. Resistance to *Macrophomina Phaseolina* in Common Bean Germplasm in México. Annual Report of the Bean Improvement Cooperative 42:67-68.

Melotto, M., H. Awale and J. D. Kelly. 1999. An Allelic Series at the Co-1 Locus for Anthracnose Resistance in Common Bean. Annual Report of the Bean Improvement Cooperative 42:9-10.

Melotto, M. and J. D. Kelly. 1998. SCAR Markers Linked to Major Disease Resistance Genes in Common Bean. Annual Report of the Bean Improvement Cooperative 41:64-65.

Melotto, M., V. Vallego, H. J. Awale and J. D. Kelly. 2000. Use of RAPD and AFSP Analysis to Tag the Co-1 Gene Conditioning Resistance to Bean Anthracnose. Annual Report of the Bean Improvement Cooperative 43:84-85.

Melotto, M., R. A. Young and J. D. Kelly. 1998. Marker-Assisted Dissection of Genes Conditioning Resistance to Anthracnose. Annual Report of the Bean Improvement Cooperative 41:9-10.

Miklas, P. N., R. Delorme, V. Stone, C. A. Urrea, J. S. Beaver and J. R. Steadman. 1998. A RAPD Map of Disease Resistance Traits in Common Bean. Annual Report of the Bean Improvement Cooperative 41:95-96.

Miklas, P. N., R. Hannan, J. R. Smith, J. S. Beaver, R. Riley and S. Antonius. 2000. Transferring Heat Tolerance and Indeterminacy from Indeterminate Jamaica Red (PI 163122) to Kidney Bean. Annual Report of the Bean Improvement Cooperative 43:66-67.

Miklas, P. N., J. R. Smith, K. F. Grafton, D. P. Coyne and M. A. Brick. 2001. Release of Pinto and Great Northern Bean Germplasm Lines USPT-CBB-1, USPT-CBB-2, USPT-CBB-3 and USGN-CBB-4 with Erectness and Resistance to Common Bacterial Blight, Rust, and Mosaic. Annual Report of the Bean Improvement Cooperative 44:183-184.

Miklas, P. N., J. R. Smith, A. N. Hang, K. F. Grafton and J. D. Kelly. 2001. Release of Navy and Black Bean Germplasm Lines USNA-CBB-1, USNA-CBB-2, USNA-CBB-3, USNA-CBB-4, and USBK-CBB-5 with Resistance to Common Bacterial Blight. Annual Report of the Bean Improvement Cooperative 44:181-182.

Miklas, P. N., J. R. Smith and J. D. Kelly. 2001. Release of Kidney and Cranberry Dry Bean Germplasm Lines USLK-CBB-9, USDK-CBB-10, USDK-CBB-11, USCR-CBB-12, and USCR-CBB-13, with Resistance to Common Bacterial Blight and Anthracnose. Annual Report of the Bean Improvement Cooperative 44:186-187.

- Miklas, P. N., J. R. Smith, R. Riley, K. F. Grafton, S. P. Singh, G. Jung and D. P. Coyne. 2000. Marker-Assisted Breeding for Pyramided Resistance to Common Bacterial Blight in Common Bean. Annual Report of the Bean Improvement Cooperative 43:39-40.
- Miles, C. 2001. Seed Dissemination and Promotion in the United States to Increase Bean Adoption. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001. <http://eastafrikaCRSP.wsu.edu/workshop0101/proceedingsTOC.html>
- Misangu, R. 2001. The Effect of Sowing Bruchid Damaged Bean (*Phaseolus vulgaris* L.) Seed on Germination, Plant Development and Yield. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001.
- Mkandawire, A. B. C. and R. L. Gilbertson. 2001. Attempts to Eradicate *Xanthomonas campestris* pv. *phaseoli* from Bean Seed Using Surface Disinfection. Bean Improvement Cooperative 44:135-136.
- Molina Castaneda, A. and J. S. Beaver. 1998. Inheritance of Normal Pod Development in Bean Golden Mosaic Resistant Common Beans. Annual Report of the Bean Improvement Cooperative 41:5-6.
- Moraghan, J. T., J. Padilla, J. D. Etchevers, K. Grafton and J. A. Acosta-Gallegos. 2001. Soil and Genetic Factors Influencing Iron Accumulation in Common Bean Seed. Submitted to Journal of Plant Nutrition.
- Msuku, W. A. B., V. W. Saka and D. C. Munthali. 2000. Major Diseases and Insect Pests of Beans (*Phaseolus vulgaris* L.). In Malawi: Problems and their Control. University of Malawi, Bunda College of Agriculture, Lilongwe. Montfort Press, Limbe, Malawi, ISBN 99908-29-15-2, p. 62.
- Mtenga, K., F. Magayane, A. Matee and C. Miles. 2001. Existing Mechanisms for Smallholder Seed Production and Dissemination in Tanzania: A Case of SUA B/C CRSP. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001. <http://eastafrikaCRSP.wsu.edu/workshop0101/proceedingsTOC.html>
- Murillo, A., J. Pinzon and A. Peralta. 1998. Catalogo del Banco de Germoplasma de Frejol, Arveja, Haba and Lenteja. INIAP, Estacion Experimental Santa Catalina, p. 68.
- Mutlu, N., D. P. Coyne, S. O. Park, J. R. Steadman, J. Reiser and G. Jung. 1999. Backcross breeding and RAPD Molecular Markers to Enhance Resistance to Common Bacterial Blight of Pinto Beans. Annual Report of the Bean Improvement Cooperative 42:7-8.
- Myers, J. R. 1998. Inverse Frequency is Affected by Genotype in Pinto and Cranberry Beans. Annual Report of the Bean Improvement Cooperative 41:131-132.

Myers, J. R., B. Gilmore and D. Kean. 1999. Correlation Between Field and Straw Tests for White Mold Resistance in Common Bean. Annual Report of the Bean Improvement Cooperative 42:115-116.

Myers, J., D. Kean, J. Davis, S. Nchimbi-Msolla and R. Misangu. 2001. Backcross Breeding to Introduce Arcelin Alleles into Bean Cultivars. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001. <http://eastafrikaCRSP.wsu.edu/workshop0101/proceedingsTOC.html>

Myers, J. R., P. E. McClean, C. A. Strausbaugh and R. L. Forster. 1999. Drijfhout's Data Revisited: Linkage Between *bu-u* and *bc-12* for Bean Common Mosaic Virus Resistance. Annual Report of the Bean Improvement Cooperative 42:25-26.

Myers, J. R., G. A. Mink and R. Mabagala. 2000. Surveys for Bean Common Mosaic Necrosis Virus in East Africa. Annual Report of the Bean Improvement Cooperative 43:13-14.

Navarrete-Maya, R., B. Aguilar-Garzon, R. Rosales-Serna and J. A. Acosta-Gallegos. 1999. Multiple Disease Resistance in Bean Genotypes from a Core Collection Grown in Central México. Annual Report of the Bean Improvement Cooperative 42:69-70.

Navarrete-Maya, R., G. Esquivel-Esquivel and J. A. Acosta-Gallegos. 1998. Identification of Halo Blight Resistant Bean Genotypes in Central México. Annual Report of the Bean Improvement Cooperative 41:155-155.

Navarrete-Maya, R., J. Navarrete-Maya, E. Trejo-Albarrana, J. M. Prudencio-Sains and J. A. Acosta-Gallegos. 2000. Identification of Root Rot Resistant Genotypes from a Core Collection Grown in Central México. Annual Report of the Bean Improvement Cooperative 43:122-173.

Ngwira, M. and A. Mwangwela. Culinary Characteristics of Selected Bean Varieties in Malawi. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001. <http://eastafrikaCRSP.wsu.edu/workshop0101/proceedingsTOC.html>

Nuland, D., D. Lindgren, J. Steadman and D. Coyne. 1999. Evaluation of Dry Bean Cultivars for Reaction to White Mold. 1998 Biology and Cultural Tests for Control of Plant Diseases 14:23.

Nyirenda, G. 2001. Preliminary Results of Bean Insect Pests in Karonga Agricultural Development Division and some parts of Lilongwe and Shire Valley Agricultural Development Divisions in Malawi. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001. <http://eastafrikaCRSP.wsu.edu/workshop0101/proceedingsTOC.html>

Ospina, M.T., G. L. Hosfield and M. R. Bennink. Methodology to Determine Indigestible Starch in Dry Bean (*Phaseolus vulgaris* L.). Annual Report of the Bean Improvement Cooperative 41:86-87.

_____. 1997. Indigestible Starch in a Select Sample of Navy Beans. Annual Report of the Bean Improvement Cooperative 40:19-20.

- Park, S. O., D. P. Coyne, G. Jung, E. Arnaud-Santana and H. Ariyaratne. 1998. Detection and Mapping of RAPD Markers Associated with QTL Affecting Seed Size and Shape in Common Bean. Annual Report of the Bean Improvement Cooperative 41:147-148.
- Park, S. O., D. P. Coyne, N. Mutlu, G. Jung and J. R. Steadman. 1999. Confirmation of Molecular Markers and Flower Color Associated with QTL for Resistance to Common Bacterial Blight in Common Beans. Annual Report of the Bean Improvement Cooperative 42:5-6.
- Park, S. O., D. P. Coyne and J. R. Steadman. 1999. Molecular Markers Linked to the Ur-7 Gene Conferring Specific Resistance to Rust in Common Bean. Annual Report of the Bean Improvement Cooperative 42:31-32.
- Park, S. O., D. P. Coyne, J. R. Steadman and G. Jung. 1999. Mapping Molecular Markers and Seed Coat Pattern Associated with QTL Affecting White Mold Resistance in Common Bean. Annual Report of the Bean Improvement Cooperative 42:45-46.
- Park, S. O., D. P. Coyne, J. R. Steadman and P. W. Skroch. 2000. Mapping of QTL for Partial Field Resistance to White Mold, Plant Architecture and Plant Height in Common Bean. Annual Report of the Bean Improvement Cooperative 43:164-165.
- _____. 2000. Mapping of QTL for Partial Physiological Resistance to White Mold in Common Bean. Annual Report of the Bean Improvement Cooperative 43:162-163.
- Pastor-Corrales, P. A., J. R. Stavely, J. D. Kelly, K. F. Grafton, J. R. Steadman, D. P. Coyne, D. T. Lindgren and B. T. Scully. 2001. Rust and Mosaic Resistant Bean Germplasm Releases, 1997-1999. Annual Report of the Bean Improvement Cooperative 44:101-102.
- Patent: Broad Spectrum Resistance to Plant Geminiviruses. This patent covers the addition of selected sequences to the rep gene mutations to broaden the spectrum to include geminiviruses in different phylogenetic clusters. Filed April 1998 by Wisconsin Alumni Research Foundation for S. F. Hanson and D. P. Maxwell.
- Peralta, E., A. Murillo, C. Caicedo, J. Pinzon and M. Rivera. 1997. Manual Agrícola de leguminosas. Cultivos y costos de produccion. INIAP, p. 43.
- Peralta, E., A. Murillo, J. Pinzon, J. Vasquez and R. Lepiz. 1998. Paragachi, Variedad Local de Frejol Arbustivo (*Phaseolus vulgaris* L.) - Rojo Moteado. INIAP, p. 5.
- Perez-Herrera, P. and J. A. Acosta-Gallegos. 1999. Water Absorption Kinetics in Seed of Wild and Cultivated *Phaseolus vulgaris*. Annual Report of the Bean Improvement Cooperative 42:89-90.
- Perez-Herrera, P., G. Esquivel-Esquivel and J. A. Acosta-Gallegos. 1998. Seed Quality Traits of Wild, Weedy and Cultivated *Phaseolus vulgaris*. Annual Report of the Bean Improvement Cooperative 41:113-114.
- Posa-Macalincag, M. C., G. L. Hosfield, J. D. Kelly and K. F. Grafton. 2001. Identification of RAPD Markers Linked to Canning Quality Traits in Kidney Bean. Annual Report of the Bean Improvement Cooperative 44:161-162.

- Posa, M. C., G. L. Hosfield, J. D. Kelly and K. F. Grafton. 1999. Variability for Processing Quality Traits in Two Recombinant Inbred Populations of Kidney Bean. Annual Report of the Bean Improvement Cooperative 42:127-128.
- Powers, K. S., R. S. Higgins, J. R. Steadman and T. O. Powers. 1999. Ribosomal DNA Restriction Site Variation and Small Subunit (SSU) rDNA Group 1 Introns in *Sclerotinia* Species. Phytopathology 89:S107.
- Roman-Aviles, B. and J. S. Beaver. 2001. Heritability of Heat Tolerance of an Andean Bean Population. Annual Report of the Bean Improvement Cooperative 44:49-50.
- Rosales-Serna, R., R. P. Duran-Duran, P. Perez-Herrera, H. Guillen-Andrade, J. S. Muruaga-Martinez and J. A. Acosta- Gallejos. 2001. Patterns of Genetic Diversity in Improved Dry Bean Germplasm from Mexico. Annual Report of the Bean Improvement Cooperative 44:21-22.
- Rosales-Serna, R., R. Ochoa-Marquez, J. W. White and J. A. Acosta-Gallegos. 1999. Phenology of Common Bean from the Mesoamerican Gene Pool in the Highlands of México. Annual Report of the Bean Improvement Cooperative 42:77-78.
- Rosas, J. C. 1998. El Cultivo de Frijol en America Tropical. Zamorano Academic Press, Zamorano, Honduras, p. 52.
- Rosas, J. C. and A. Castro. 2000. Principales Enfermedades del Cultivo de Frijol in Centro America y El Caribe. Technical Bulletin, Escuela Agrícola Panamericana, Zamorano, Honduras, p. 45, 32 illust.
- Rosas, J. C., A. Castro and E. D. Flores. 1999. Recomendaciones para el Manejo de Variedades Mejoradas de Frijol. Technical Bulletin 18, Zamorano, Honduras, p. 8 and Training Manual 30, p. 21.
- Rybicki, E. P., R. W. Briddon, J. K. Brown, C. M. Fauquet, D. P. Maxwell, B. D. Harrison, P. G. Markham and J. Stanley. 2000. Geminiviridae. In C. M. Fauquet et al. (eds.) Virus Taxonomy. 7th Report of the International Committee on Taxonomy of Viruses. Academic Press, San Diego, p. 285-297.
- Sadowsky, M. J. and P. H. Graham. 1999. Agricultural and Environmental Applications of Nitrogen Fixing Organisms. In E. Martínez and G. Hernandez (eds.) Highlights of Nitrogen Fixation Research. New York, NY: Kluwer/Plenum, p. 219-23.
- Saladin, F., E. Arnaud-Santana, J. C. Nin, G. Godoy-Lutz, D. P. Coyne, J. S. Beaver and J. R. Steadman. 1998. PC-50". Programa Nacional de Investigacion en Leguminosas Comestibles, Depto. De Investigaciones Agropecuárias DIA-SEA, and Proyectos Internacionales Titulo XII-PROFRIJOL, Dominican Republic.
- _____. 1998. Saladin-97". Programa Nacional de Investigacion en Leguminosas Comestibles, Depto. De Investigaciones Agropecuárias DIA-SEA, and Proyectos Internacionales Titulo XII-PROFRIJOL, Dominican Republic.
- _____. 1998. Arroyo Loro Negro . Programa Nacional de Investigacion en Leguminosas

Comestibles, Depto. De Investigaciones Agropecuarias DIA-SEA, and Proyectos Internacionales Titulo XII-PROFRIJOL, Dominican Republic.

_____. 1998. Anacaona . Programa Nacional de Investigacion en Leguminosas Comestibles, Depto. De Investigaciones Agropecuarias DIA-SEA, and Proyectos Internacionales Titulo XII-PROFRIJOL, Dominican Republic.

_____. 1998. JB-178". Programa Nacional de Investigacion en Leguminosas Comestibles, Depto. De Investigaciones Agropecuarias DIA-SEA, and Proyectos Internacionales Titulo XII-PROFRIJOL, Dominican Republic.

_____. 1998. CIAS-95". Programa Nacional de Investigacion en Leguminosas Comestibles, Depto. De Investigaciones Agropecuarias DIA-SEA, and Proyectos Internacionales Titulo XII-PROFRIJOL, Dominican Republic.

Schneider, K. A. and J. D. Kelly. 1999. Heritability Estimates for Resistance to Fusarium Root Rot in Common Bean. Annual Report of the Bean Improvement Cooperative 42:65-66.

Schneider, K., J. D. Kelly and K. F. Grafton. 1998. Evaluation and Identification of Root Rot Resistance to *Fusarium solani* f. sp. *Phaseoli* in Common Bean. Annual Report of the Bean Improvement Cooperative 41:60-61.

Stavely, J. R., J. D. Kelly, J. R. Steadman, D. P. Coyne and D. T. Lingren. 1999. Release of BelMiNeb-RMR-6 and -7 Erect, Short Vine, Rust and Mosaic Resistant Great Northern Germplasm Lines. United States Department of Agriculture, Michigan Agricultural Experiment Station, and Nebraska Agricultural Research Division.

Stavely, J. R., R. T. McMillan Jr., J. S. Beaver and P. N. Miklas. Release of Three McCaslan Type, Indeterminate, Rust and Golden Mosaic Resistant Snap Bean Germplasm Lines, BelDade RGMR 4, 5 and 6. Annual Report of the Bean Improvement Cooperative 44:197-199.

Steadman, J., K. Eskridge, J. Costs, K. Grafton, J. Kelly, K. Krieczek, J. Kolkman, J. Myers, and P. Miklas. 2001. Evaluation of Sources of Resistance to *Sclerotinia sclerotiorum* in Common Bean with Five Test Methods at Multiple Locations. Annual Report of the Bean Improvement Cooperative 44:89-90.

Steadman, J. R., K. F. Grafton, K. Kmiecik, J. M. Kolkman, M. Kyle-Jahn and R. Mainz. 1998. Bean White Mold Nursery, 1997. Annual Report of the Bean Improvement Cooperative 41:173-174.

Steadman, J. R., G. Jung, M. S. Adams, K. Powers and B. Higgins. 2000. Random Amplified Polymorphic DNA (RAPD) Distinguishes Three Species of *Sclerotinia* but not Pathogenic Variability in *S. sclerotiorum* Isolates from Diverse Host and Geographic Origin. Annual Report of the Bean Improvement Cooperative 43:158-159.

Steadman, J. R. and C. Sandlin. 1999. Pathogenic Variation of the Bean Rust Pathogen from Africa and the Americas and Resistance Genes in Common Bean. Phytopathology 89:S91.

Strausbaugh, C. A., J. R. Myers, R. L. Forster and P. E. McClean. 2000. Quantitative

Method to Screen for Resistance to Bean Common Mosaic. Annual Report of the Bean Improvement Cooperative 43:166-167.

Takegami, J. C. and J. S. Beaver. 2000. Heritability of Web Blight Resistance in Common Bean. Annual Report of the Bean Improvement Cooperative 43:43-44.

Temu, A. and K. Mtenga. 2001. Situation and Outlook of Development of Seed Production and Marketing Systems in Tanzania: Implications to B/C CRSP Seed Multiplication and Distribution Strategies. Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs Workshop Proceedings. Arusha, Tanzania, January 12-14, 2001.
<http://eastafricaCRSP.wsu.edu/workshop0101/proceedingsTOC.html>

Vallejo, V. and J. D. Kelly. 2001. Development of SCAR Markers Linked to the Co-5 Locus in Common Bean. Annual Report of the Bean Improvement Cooperative 44:121-122.

Vance, C. P., P. H. Graham and D. L. Allan. In press. Biological Nitrogen Fixation: Phosphorus A Critical Future Need. In F. Pederosa et al (eds.) Nitrogen Fixation from Molecules to Crop Productivity. Kluwer Publishers, Dordrecht, The Netherlands.

Voysest, O. 2000. Un Cultivo Ancestral Avanza a la Modernidad. Tiempo de Transición 1988-1999. Proyecto Regional de Frijol para la Zona Andina, p. 72.

Waines, G., F. J. Ibarra-Perez and A. Castillo-Rosales. 1999. Outcrossing Rates within and between Gene Pools in Common Bean. Annual Report of the Bean Improvement Cooperative 42:71-72.

Yabba, M. D. and E. F. Foster. 1998. Bean Seedling Response to Abscisic Acid and Polyethylene Glycol. Annual Report of the Bean Improvement Cooperative 41:210-211.

C. POPULAR ARTICLES

Anon. 1998. New GN Variety May Increase Exports. The Bean Bag, Scottsbluff, NE., p. 4. (Taken from *Gering Courier* Newspaper, Gering, NE).

Coyne, D. P. 2001. Growers Take Another Look at Great Northern Weighing Demand for Larger White Beans Evident in Markets. The Bean Bag 19(1), Summer.

Ergun, M., E. Paporozzi, D. Nuland, D. Coyne and D. Smith. 1998. Factors Influencing Differentiation of Pinto Bean Seed Testa Yellowish Discoloration. Nebraska Dry Bean Growers Association, The Bean Bag, Spring Issue, p. 8.

Estevez de Jensen, C. J. E. Kurle and J. A. Percich. 2001. Management of Dry Bean Root Rot in Minnesota. Northarvest Bean Grower, p. 6-7.

Gonzales, J. W. and D. P. Coyne. 2001. Step into the Laboratory: An In-Depth Look at

Leafhopper Resistance in Beans. The Bean Bag 19(2):16.

Gonzales, J. W., D. P. Coyne, W. W. Stroup and C. Carlson. 1998. Iron Deficiency Chlorosis in Dry Beans. Nebraska Dry Bean Growers Association, The Bean Bag, Summer Issue, P. 19.

Lindgren, D., D. Nuland, D. Coyne and J. Steadman. 1998. Evaluation of Dry bean Cultivars/Lines for Reaction to Common Blight. Nebraska Dry Bean Growers Association, The Bean Bag, Summer Issue (insert of report to the Nebraska Dry Bean Commission).

_____. 1998. Evaluation of Dry bean Cultivars/Lines for Reaction to Rust. Nebraska Dry Bean Growers Association, The Bean Bag, Summer Issue (insert to report).

Miller, V. 2001. Research that Improves People s Lives most Fulfilling. Research Nebraska, p. 8-9 (based on interview with D. Coyne regarding CRSP and NE bean research), September.

_____. 2000. First Rust-Resistant Pinto Addressed Pressing Need. Research Nebraska, Agricultural Research Division, University of Nebraska-Lincoln, NE, p. 7 (based on interview).

_____. 2001. Coyne Retires His Accomplishments Forever etched in the Dry Bean Industry. The Bean Bag 19(3):8 (based on interview with D. Coyne regarding career contributions to the CRSP and NE).

_____. 1999. New Bean Resists Rust, Blight and Virus. Research Nebraska, March, p. 15. (Based on interview about the release of the new bean great northern, Weihing.)

Potter, J. L., M. K. Nakhla, L. Mejia and D. P. Maxwell. 2001. Specific PCR and DNA Hybridization Methods for Detection of Bean-Infecting Geminiviruses. Caribbean Division of the American Phytopathological Society, Cuba, June. (Abstract)

Steadman, J. 1998. Fungicide Options for bean Rust. Crop Watch (NE), July 31, p. 165-167.

_____. 1998. Bean Rust Mobile Nursery Includes Southwest Nebraska. Crop Watch (NE), July 31, p. 167.

Steadman, J. R. and R. M. Harveson. 2000. Mobile Nurseries Detect New Dry Bean Rust Races. Crop Watch 17:148.

_____. 2000. Mobile Nurseries Used to Detect New Races of Dry Bean in Area Fields. The Bean Bag 18:12-14.

_____. 2000. Only Two Fungicide Options for Bean Rust in 2000. The Bean Bag 18:10 and Crop Watch 17:149.

_____. 2000. Saving Your Beans with the Blue Plate Test. Crop Watch 116:140.

Steadman, J. R. and R. Weed. 1999. Mobile Monitor Nursery Major Player of Rust Study. The Bean Bag, Fall, p. 18.

D. PRESENTATIONS (ABSTRACTS AND PROCEEDINGS OF MEETINGS), SEMINARS AND INVITED TALKS

Acosta-Diaz, E., J. A. Acosta-Gallegos and C. Trejo-Lopez. 1998. Mantenimiento del Area Foliar en Genotipos de Frijol (*Phaseolus vulgaris* L.) Bajo Sequia Intermitente. XVII Congreso de Fitogenetica, Acapulco, Gro., p. 161.

Acosta Gallegos, J. 2001. Como acercarse a la ciencia Getting Closer to Science . A workshop directed to students and young researchers in the Universidad Autónoma de Chapingo at Texcoco, State of Mexico, October 19.

Acosta-Gallegos, J. A. 1999. Current Bean Production Systems in México. Invited to address the National Bean Improvement Conference, VI Renafe Meeting, Slavador, Bahia, Brazil, November 21-26.

_____. 1998. Mejoramiento Genetico del Frijol en México. Presentacion en el PROFRIJOL Taller Efectuado en Veracruz, Ver., January 27-31.

_____. 1998. Mejoramiento Genetico del Frijol en México. El Programa del INIFAP. Presentacion en el I Simposium Internacional de Frijol Efectuado en Zacatecas, Zac., May 27-29.

_____. 1998. Mejoramiento de la Resistencia a la Sequia del Frijol Comun en México. Presentacion en la XLIV Reunion Anual del PCCMCA, Reunion Mesoamericana de Agronomia, April 20-26, Montelimar, Nicaragua.

Acosta, G. J. A., R. Rosales S., A. Castillo R., P. Fernandez H., R. Ochoa M., B. Cazares E., S. Alvarado M. and S. Nunez G. 1998. Adaptacion y Rendimiento del Frijol en el Altiplano Mexicano. XVII Congreso de Fitogenetica, Acapulco, Gro., p. 454.

Aguirre-Medina, J. F., C. Trejo-Lopez, J. Kohashi-Shibata y J. A. Acosta-Gallegos. 1998. Respuesta Fisiologica del Frijol *Phaseolus vulgaris* L. a estres Hidrico en un Sistema de Raiz Dividida. XVII Congreso de Fitogenetica, Acapulco, Gro., p. 444.

Alleyne, A. T., J. Fenton, J. R. Steadman, K. M. Eskridge and L. A. Sutton. 2001. Changing Virulence Patterns of *Uromyces appendiculatus* to Bean Cultivar Pinto Olathe from 1981 to 1992 in Nebraska. Phytopathology 91(6):52. (Abstract)

Angel, J. C. and J. Beaver. 1999. Uso de Marcadores Moleculares para la Seleccion de Lineas Resistentes al Mosaico Dorado y Mosaico Comun del Frijol. Paper presented at the Annual Meeting of the Caribbean Division of the American Phytopathological Society, San Juan, Puerto Rico, June 21-25.

Angel Sanchez, J. C., J. S. Beaver and J. D. Kelly. 1999. El uso de Marcadores Moleculares en la Seleccction de Lineas de Frijol Resistentes al Mosaico Dorado y Mosaico Comun. Agronomia Mesoamericana. Presentation at the Annual Meeting of the PCCMCA, Guatemala City, Guatemala, April 12-15.

Angustia, S. N., E. Arnaud-Santana, J. Arias and F. Sanchez. 2000. Efecto de Densidad Poblacional en el Rendimiento de Ocho Variedades en el Valle de San Juan de la Maguana. Proceedings of the 36th Annual Meeting of the Caribbean Food Crops Society, Boca Chica, Republic Dominican, August 27-September 1.

Aragao, F. J. L., S. G. Ribeiro, L. M. G. Barros, A. C. M. Brasileiro and D. P. Maxwell. 1998. Transformation of Dry bean (*Phaseolus vulgaris* L.) for Resistance to Bean Golden Mosaic Virus. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

Araya, C. M. and J. R. Steadman. 1997. Variation in Virulence, Telia Production and RAPD Pattern Among Isolates of the Bean Rust Pathogen from the Americas. Paper presented at the Bean Improvement Cooperative Meeting held in Annapolis, MD, November 4-7 and the Caribbean Division American Phytopathological Society, San Jose, Costa Rica, October.

Ariyaratne, H. M., D. P. Coyne, K. Eskridge and A. K. Vidaver. 1999. Pathogenic Variation in the Halo Blight Pathogen on Common Bean. Bean Improvement Cooperative Meeting, Calgary, Alberta, Canada, November 10-11.

Ariyaratne, H. D., D. P. Coyne, G. Jung, J. R. Steadman, A. K. Vidaver, P. Miklas and M. J. Bassett. 1997. Construction of a Genetic Linkage Map and Locations of Halo Blight, Brown Spot, Rust, BCMV Resistance Loci and Seed (C) and Flower (V) Color Loci in Common Bean using RAPD Markers. Poster presented at the Bean Improvement Cooperative Meeting held in Annapolis, MD, November 4-7.

Ariyaratne, H. D., D. P. Coyne and A. K. Vidaver. 1998. Pathogenic Variation in Halo Blight on Common Beans. Poster presented at ASHA Meeting held in Charlotte, NC, July 12-15.

Arnaud-Santana, E. 2001. Prospects for Growing Black Beans in the Dominican Republic for Export to Venezuela and Neighboring Islands. Spoke at a National Legume Crops Forum, Santo Domingo, DR.

_____. 2001. Spoke at the Bean Field Day organized by the San Juan Bean Growers Association, Arroyo Loro Experimental Station (EEAL), DR, January 12.

_____. 2001. Desalinization of Soils of Neyba. Public Lecture on the new Research Institute IDIAF, Bani, July 6, and gave a talk on the occasion of the opening of new offices of IDIAF, Azua, DR, May 17.

_____. 2000. Desarrollo de Cinco Variables de Habichuelas Resistentes a Enfermedades Adaptadas Tropicalmente. Caribbean Food Crops Society Meeting. 36th Annual Report Meeting, Boca Chica, Dominican Republic, August 27-September 1.

_____. 2000. The History and Development of Plant Pathology in the Dominican Republic in the XX Century. Paper presented at the Annual Meeting of the Caribbean Division of the American Phytopathological Society, Santo Domingo, October 31-November 3.

Arnaud-Santana, E., F. Saladin, J. C. Nin, G. Godoy-Lutz, J. Beaver, D. P. Coyne and J. R. Steadman. 2000. Poster Session: Desarrollo de Cinco Variedades de Habichuelas Resistentes a Enfermedades Adaptadas Tropicalmente. Proceedings of the 36th Annual Meeting of the Caribbean Food Crops Society, Boca Chica, Republic Dominican, August 27-September 1.

Banda, A. L. 1999. Bean Production Potential in Salima Agricultural Development Division. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Barnes-McConnell, P. and A. B. C. Mkandawire. 2000. Participatory Plant Breeding in Bean/Cowpea Collaborative Research Support Program (CRSP). GRCP. Scientific Basis of Participatory Plant Breeding and Conservation of Genetic Resources. Oaxtepec, Morelos, Mexico, October 8-14. Report No. 25. University of California Division of Agriculture and Natural Resources, Genetic Resources Conservation Program, Davis, CA.

Bautista, M. de J., R. Echavez and J. S. Beaver. 1998. Metodologia para Seleccionar en el Laboratorio Germoplasma de Frijol con Resistencia a Mustia Hilachosa. Paper presented at the XLIV Annual PCCMCA Regional Meeting, Managua, Nicaragua, April 20-23.

Beaver, J. S. 2001. Breeding Common Beans for Central America and the Caribbean. Invited paper presented at the First Convention of the Puerto Rico Seed Research Association, Ponce, Puerto Rico, September 14.

_____. 1998. Avances en el Mejoramiento Genetico de Frijol Andino Caribeno. Paper presented at the XLIV Annual PCCMCA Regional Meeting, Managua, Nicaragua, April 20-23.

_____. 1998. Contribucion Potencial del Germoplasma Andino para el Mejoramiento Genetico de Frijol Mesoamericana. Proceedings of the Workshop on Breeding Black Beans. Organized by PROFRIJOL/INIFAP, Veracruz, México, January 27-31.

Beaver, J. S., G. Godoy-Lutz, J. C. Rosas and J. R. Steadman. 2001. Estrategias para seleccionar frijol con mayores niveles de resistencia a la mustia hilachosa. Paper presented at the Annual Meeting of the Programa Cooperativo Centroamericano para el Mejoramiento de Cultivos y Animales (PCCMCA), San Jose, Costa Rica, April 2-6.

Beaver, J. S., J. C. Nin and E. Prophete. 2000. Desarrollo de Lineas de Frijol para el Caribe. Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

Beaver, J. S., J. C. Rosas. 1999. Current Situation of Bean Production in Central America and the Caribbean. Invited paper presented at the VI Reuniao de Pesquisa de Feijao, Salvador, Bahia, Brazil, November.

Bernal, G. and P. H. Graham. 2000. Diversity in the Rhizobia Associated with *Phaseolus vulgaris* in Ecuador, and Comparison with Mexican Bean Rhizobia. Proceedings of the 17th North American Conference on Symbiotic Nitrogen Fixation, Quebec, p. 63.

Bernsten, R. H. 2000. Algunos Aspectos Importantes del Muestreo Estadistico en ElMarco

de Las Evaluaciones de Impacts (lecture outline).

_____. 2000. Papers presented at the Taller Internacional de Socioeconomica Sobre Estudios de Impacto y Costos Produccion, August 1-4.

_____. 1998. Strategy to Accelerate the Adoption of Improved Bean Varieties in Honduras. Paper presented at the International Agricultural Development Program Weekly Seminar, University of California-Davis, April 9.

Bernsten, R. H. and D. Mainville. 1998. Smallholder Seed Schemes in Developing Countries: Lessons Learned and Implications for Designing more Effective Seed Schemes. Paper presented at the Workshop on the Production and Distribution of Bean Seed, Zamorano, Honduras, August 3-6.

Bernsten, R. H. and D. Mather. 2000. Investigacion de la Administracion Rural: Una Guil para la Colecta y Analisis de Data.

Bernsten, R. H., D. Mather, D. Mainville, H. Gonzales and J. Estrada-Valle. 2000. Dry Beans in México, Central America and the Caribbean: Impact and Constraints to Increasing Consumption, Production and Trade. Paper presented at the Bean/Cowpea CRSP Midcourse 2000 Researchers Meeting, Michigan State University, East Lansing, MI, April 9-16.

Bodzalekani, M. Z. 1999. Bean Seed Production and Marketing: The Experience of the European Union Supported Growers. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Bokosi, J. Progress on Breeding Programs in Malawi. Presented in Arusha, Tanzania, January 12-14, 2001 in the Workshop "Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs."

Bonilla, A. R., Y. Rodriguez, A. P. 1997. Efecto de la Adicion de Frijol Germinado Sobre la Digestibilidad *in vitro* del Almidon de Frijol Cocido (*Phaseolus vulgaris*). XI Congreso de la Sociedad Latinoamericana de Nutricion. Guatemala, November 9-15.

Bonilla, A. R., I. Sanchez, A. Cordoba, L. Munoz and C. Ivankovich. 2000. Alimento Infantil a Partir de Frijol (*Phaseolus vulgaris*) Fortificado con Hierro Electrolitico. Paper presented at III Taller Anual de PITTA-FRIJOL, San Jose, Costa Rica, October.

Bonilla, A. R., I. Sanchez and L. Munoz. 1999. Weaning Bean-Based (*Phaseolus vulgaris*) Product Fortified with Electrolytic Iron. IFT Annual Meeting (Book of Abstracts).

Boosalis, M. G., J. R. Steadman, K. Powers and B. Higgins. 2001. New Methods for producing, Recovering, Storing and Delivering Ascospores of *Sclerotinia sclerotiorum* and other Fungal Propagules. Phytopathology 91(6):5175. (Abstract)

Bracero-Acosta, V. and L. I. Rivera-Vargas. 2000. Secuencacion del Virus del Moasico Dorado de la Hibichuela en *Macroptilium lathyroides* como Huesped Alterno. Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

Bracero-Acosta, V., L. I. Rivera-Vargas, D. Purcifull and J. Beaver. 1999. Es *Macrotillim* sp. Reservorio del Virus del Mosaico Dorado de la Habichuela? Paper presented at the Annual Meeting of the Caribbean Division of the American Phytopathological Society, San Juan, Puerto Rico, June 21-25.

_____. 1999. Estudios Epidemiologicos del Virus del Mosaico Dorado de la Habichuela *Phaseolus vulgaris* L. Paper presented at the Annual Meeting of the Caribbean Division of the American Phytopathological Society, San Juan, Puerto Rico, June 21-25.

Calderon, R., A. R. Bonilla and I. Ivankovich. 1999. Estudio de Prefectibilidad para la Instalacion de una Planta para el Procesamiento del Frijol Deshidratado Fortificado con Hierro. Proceedings 1er Congreso Nacional de Ciencia y Tecnologia de Alimentos, San Jose, Costa Rica.

Campos, E., A. Fernandez, I. Sanchez, T. Y. Sancho and C. Villalobos. 1999. Diagnostico para el Diseno de una Campana Educativa Tendiente a Incrementar el Consumo del Frijol en una Comunidad Urbana de Clase Media de San Jose. Seminario de Graduacion para Optar por el Grado de Licenciatura. Escuela de Nutricion, Universidad de Costa Rica, San Jose, Costa Rica.

Castillo, R. A., P. Fernandez, H., B. Caceres E., F. J. Ibarra y J. A. Acosta. 1998. Dureza de Grano en la Coccion de un Grupo de Lineas de Frijol Tipo Pinto, dle Altiplano Semiarido de México. XVII Congreso de Fitogenetica, Acapulco, Mexico, p. 177.

Castillo R., A., F. J. Ibarra P. and J. A. Acosta G. 1999. Calidad de la Coccion de Lineas y Variedades de Frijol Evaluadas Bajo Riego y Temporal. Primera Reunion Estatal de Ciencia y Tecnologia en Durango.

_____. 1999. Determinacion de la Dureza de Grano en la Coccion de Lineas Mejoradas de Frijol. Primera Reunion Estatal de Ciencia y Tecnologia en Durango.

Castillo, R. A., F. J. Ibarra P., P. Fernandez, H., B. Caceres E., J. A. Acosta G., R. Rosales S., R. Ochoa M., S. Nunez G. y R. Zandate H. 1998. Evaluacion de un Grupo de Lineas de Frijol Tipo Negro en Diecisiete Ambientes del Altiplano Semiarido de México. XVII Congreso de Fitogenetica, Acapulco, Mexico., p. 176.

Castro, A. and J. C. Rosas. 2000. Mejoramiento Genetico Participativo en Frijol Comun: Evolucion o Ilusion? Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

_____. 1999. Manejo Agronomico para Producir Semilla de Frijol de Calidad. Paper presented at the Short Course on Artisan Bean Seed Production organized by Seed of Hope Project/CIAT-CGIAR, El Zamorano, Honduras, April.

Castro, A., J. C. Rosas and E. D. Flores. 1999. Consideraciones para el Diseno de Esquemas de Produccion Artesanal de Semilla de Frijol en Centro America. Paper presented at the Workshop on Bean Seed Production in Central America: Experiences and Plans for the Future, San Jose, Costa Rica, April 28-30, p. 6.

Chipokosa, S. M. 1999. Species Composition, Distribution and Damage Caused by Bean

Bruchids in Malawi. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Christiansen, I. and P. H. Graham. 2000. Phosphorus Uptake and Utilization in Eight Andean Bean Lines Dependent on Biological Nitrogen Fixation. Proceedings of the 17th North American Conference on Symbiotic Nitrogen Fixation, Quebec, p. 76.

Costa, N. M. B., S. Kannan, A. C. Mason and A. R. Bonilla. 1998. Bioavailability of an Iron-Fortified Bean-Based Weaning Food. Experimental Biology 98, San Francisco, CA, April (Abstract).

Coyne, D. P. 2001. Breeding for and Genetics of Disease Resistance of Crop Plants in Global Setting. Breeding and Genetics Seminar, Department of Animal Science, University of Nebraska, Lincoln, NE, February 6.

_____. 2000. An Overview of Breeding and Genetics of Dry Beans and Squash. Agronomy and Horticulture Highlights Conference, Cornhusker Hotel, Lincoln, NE, December 5.

_____. 2000. Breeding for and Genetics of Disease Resistance of Crop Plants in Global Setting. Presented keynote address at the Annual Awards Banquet of Gamma Sigma Delta, University of Nebraska, Lincoln, NE, November 19.

_____. 2000. Chaired session and panel and acted as discussant at the Germplasm Enhancement and Cultivar Development, Idaho Bean Workshop and Field Day, Twin Falls, Idaho, August 3-4.

_____. 2000. Invited lecture on Breeding for Multiple Disease Resistance in Common Beans for Sustainable Crop Production, Universidad Nacional Autonoma de Nicaragua, Leon, Nicaragua, March 12-17.

_____. 2000. Presented invited lecture in Biological Sciences, University of Limerick, Limerick, Ireland, June 21.

_____. 1999. Breeding Beans for Disease Resistance. Invited to present seminar in the Genetics Panel, Animal Science Department, University of Nebraska-Lincoln, NE, January 25.

_____. 1999. Classical and Molecular Genetics and Breeding for Disease Resistance of Vegetables in Tropical and Temperate Regions. Seminar, Department of Horticulture, University of Nebraska-Lincoln, NE, February 8.

_____. 1999. An Overview of the Bean/Cowpea CRSP. Global Agriculture and the American Midwest: A Win-Win Exchange. Invited talk at Iowa State University, Ames, IA, March 18-19.

_____. 1999. Some Global Food Issues: Low Technology, High Technology, and Human Health. Invited to present lecture at United Nations, Lincoln Chapter, Lincoln, NE, March 22.

_____. 1999. Progress in Breeding and Genetics of Great Northern Pinto Beans for Multiple Disease Resistance, Seed Quality, Yield and Plant Type. Annual Dry Edible Bean Field Day, Scottsbluff, NE, August 18.

_____. 1999. The Bean/Cowpea Collaborative Research Support Program. Invited seminar at International Brown-Bag Lunch, University of Nebraska-Lincoln, NE, October 20.

_____. 1999. Breeding Great Northern and Pinto Dry Beans with Multiple Disease Resistance Combined with Improved Seed Quality, Yield and Plant Types. Oral Report to Nebraska Dry Bean Commission, November 5.

_____. 1998. Breeding and Genetics of Dry Beans for Disease Resistance in a Sustainable Production System, presented two lectures at the Universidad Nacional Autonoma de Nicaragua, Leon, Nicaragua, March 22-30.

_____. 1998. Insuring Opportunity in Food Systems: The Role of the Land Grant University. Invited talk at the NN-21 Symposium, Lincoln, NE, November 11.

_____. 1998. Some Global Food Issues: Low Technology, High Technology, and Human Health. The Torch Club of Lincoln, Lincoln, NE, December 21.

_____. 1998. Classical and Molecular Genetics for Disease Resistance of Vegetables in Tropical and Temperate Regions. Invited Maiben Memorial Lecture, Annual Meeting of the Nebraska Academy of Science, Wesleyan University, Lincoln, NE, April 23.

_____. 1998. Classical and Molecular Genetics and Breeding for Resistance to Fungal, Bacterial and Virus Diseases in Vegetable Crops. Proceedings of the International American Society of Tropical Horticulture 42:325-325.

Coyne, D. P., E. Arnaud-Santana, J. Beaver, J. R. Steadman, G. Godoy-Lutz, D. Maxwell. 1997. A Disease Management Program Enhances Bean Production in the Dominican Republic. Poster presented at ASHS Meeting, Charlotte, NC, July 12-15.

Coyne, D. P., E. Arnaud-Santana, J. Beaver, J. R. Steadman, G. Godoy-Lutz, D. Maxwell and L. Sutton. 1997. A Disease Management Program Enhances Bean Production in the Dominican Republic. Poster presented at the Bean Improvement Cooperative Meeting, Annapolis, MD, November 4-7.

Coyne, D. P., N. Mutlu, H. Ariyaratne, S. Park, G. Jung, P. Skroch, J. R. Steadman, D. Lindgren, D. Nuland, J. Nienhuis, L. Sutton and J. Reiser. 1999. Classical and Molecular Genetics and Breeding for Resistance to Common Bacterial Blight, Halo Blight, and White Mold in Dry Beans. Bean Improvement Cooperative Meeting, Calgary, Alberta, Canada, November 10-12.

Coyne, D. P., S. O. Park and J. R. Steadman. 1999. Backcross Breeding with RAPD Molecular Markers to Enhance Resistance to Common Bacterial Blight (CBB) in Pinto Beans. Bean Improvement Cooperative Meeting, Calgary, Alberta, Canada, November 10-12.

Coyne, D. P. and J. R. Steadman. 1999. Presented progress reports on research at the W-

150 Regional Project Meeting at Calgary, Alberta, Canada, November 8.

_____. 1997. Major Achievements and Perspectives in Genetics and Breeding of Dry Beans for Resistance to some Bacterial and Fungal Diseases. National Dry Bean Council Symposium held at Annapolis, MD, November 7.

Coyne, D. P., J. R. Steadman, D. Lindgren, D. Nuland, D. Smith, J. R. Stavely, J. Reiser and L. Sutton. 1997. Breeding Great Northern and Pinto Dry Beans with Disease Resistance Combined with Improved Seed Quality, Adaptation, Yield and Plant Type. Poster presented at the Bean Improvement Cooperative Meeting, Annapolis, MD, November 4-7.

Cuellar, R. E. I. 1998. Produccion de Semilla y Adopcion de Tecnologia de Frijol en Centro America y el Caribe. Taller: Experiencias en produccion de Semilla y Transferencia de Tecnologia, PROFRIJOL, San Jose de Costa Rica, March 23-27.

Cuellar, R. E. I., A. Ramirez A., and F. J. Ibarra P. 1999. Preferencias de Consumo de Frijol en Durango. Primera Reunion Estatal de Ciencia y Tecnologia en Durango.

Davila, M., D. Coyne, S. Singh and G. Jung. 1997. RAPD Molecular Markers for Genes Controlling Seedling Lethality (D1₁) and Plant Crippling (Lcr) in Common Beans. Poster presented at the Bean Improvement Cooperative Meeting, Annapolis, MD, November 4-7.

Davis, L., A. Mason and S. Nielsen. 1998. Sensory Acceptability of a Fermented Bean-Based Weaning Food. Institute of Food Technologists National Meeting, Atlanta, GA.

Diaz, M., C. Zuniga, J. Karkashian, P. Rameriz. 1999. Estudio de la Diversidad Molecular de lost Geminivirus que Infectan Frijol *Phaseolus vulgaris* en Costa Rica. Seminar presented at the 3rd National Workshop on Beans and Technology Transfer, Alajuela, Costa Rica, July 29-30.

Dumani, M. and S. Rodriguez. 2000. Proceso de Determinacion de Practicas Nutricionales Recomendables con Respecto al Frijol. Paper presented at IV National Congress of Public Health, Agosto, San Jose, Costa Rica.

Ergun, M., E. T. Pappozzi, D. Nuland, D. P. Coyne and D. Smith. 1998. Factors Affecting Seed Coat Yellowing of Pinto Beans. Poster presented at ASHS Meeting, Charlotte, NC, July 12-15.

Escoto, D., F. Rodriguez and J. C. Rosas. 1998. Evaluacion de Lineas Avanzadas en Condiciones de Baja Fertilidad y sion Insumos. Paper presented at the XLIV Annual PCCMCA Regional Meeting, Managua, Nicaragua, April 20-23.

Espinal, J. R. and J. C. Rosas. 2000. Revitalizacion del Cultivo de Frijol en Honduras Despues del Huracan Mitch. Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

Estevez de Jensen, C. 1999. Root Rot Control in Kidneys. Northarvest Bean Grower Bean Day, January 22.

_____. 1999. Potato and Bean Field Day, Staples, August 12.

_____. 1999. Farmer s Tour Verndale Trials, August 6.

_____. 1999. Farmer s Tour Park Rapid Trials, July 22.

Estevez de Jensen, C. and P. H. Graham. 1999. The Bean/Cowpea CRSP as a Model for Collaborative International Agricultural Research. Symposium on The Impact of Research on International Agriculture, St. Paul, MN, April 14.

Estevez de Jensen, C., J. E. Kurle and J. A. Percich. 2001. The Effect of Chisel and Moldboard Tillage on Dry Bean and Soybean Root Rot Caused by *Fusarium solani* f sp. *phaseoli* and *Rhizoctonia solani* in Minnesota. Phytopathology 91:S27. (Abstract)

Estevez de Jensen, C., R. Meronuck and J. A. Percich. 1999. Efficacy of *Bacillus subtilis* and Two *Rhizobium* Strains for the Management of Bean Root Rot in Minnesota. Proceedings of the 15th Bean Improvement Cooperative Conference.

Estevez de Jensen, C., R. Meronuck, J. A. Percich and K. Grafton. 1998. Etiology and Control of Kidney bean Root Rot in Minnesota. American Phytopathology Society Annual Meeting, Las Vegas.

_____. 1998. Controlling Bean Root Rot. Northarvest Bean Grower s Association Meeting, Fargo, January.

Estevez de Jensen, C., R. Meronuck, J. A. Percich and R. Winberg. 1999. Winter Survival of Kidney Bean Root Rot Pathogens in Various Crop Residues. Proceedings of the 15th Bean Improvement Cooperative Conference.

Estevez de Jensen, C., J. A. Percich and R. Meronuck. 2000. Field and Greenhouse Evaluation of *Bacillus subtilis* to Control Bean Root Rot in Minnesota, 1999. Northarvest Bean Grower s Association, Research Report 2000, p. 9-13.

Faria, J. C., L. J. Cancado, M. M. C. Albino, B. B. A. Dias, M. G. R. Vianna, E. L. Rech, D. P. Maxwell and F. J. L. Aragao. 2000. Transgenic *Phaseolus vulgaris* Engineered with a Mutant *Rep* Gene had Resistance to Bean Golden Mosaic Geminivirus. Annual Meeting of the American Phytopathological Society, New Orleans, LA, August.

Faria, J. C. and D. P. Maxwell. 2001. Bean Transformation: Perseverance. Workshop on Applications of Biotechnology for Cowpea Improvement for Africa, Dakar, Sénégal, January.

_____. 1998. Variability in Geminivirus Isolates Associated with *Phaseolus* spp. in Brazil. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

Ferguson, A. and A. B. C. Mkandawire. 1997. Silent No More. Reflections on Political Change, Development and Collaborative Agricultural Research in Malawi. African Studies Association Meetings, Columbus, Ohio, November 12-15.

Fernandez, A. and G. Garcia. 2000. Resultados del uso de Medios de Comunicacion del Diagnostico para el Diseno de una Campana Educativa Tendiente a Incrementar el Consumo

de Frijol en una Comunidad Urbano de Clase Media de Costa Rica. Paper presented at IV National Congress of Public Health, Agosto, San Jose, Costa Rica.

Godoy-Lutz, G. 2000. Variabilidad Genetica de Aisilameintos del Patogeno de la *Mustia Hilachosa* del Frijol Basada en PCR-RFLPY Sequencia de la Region ITS-2 DNA. Paper presented at the Annual Meeting of the Caribbean Division of the American Phytopathological Society, Santo Domingo, October 31-November 3.

_____. 2000. Genetic Relationship Among Isolates of the Web blight Pathogen of Common Beans Based on PCR-RFLP and Sequence of the ITS-DNA Region. Presented a poster and an oral presentation at the Third International Symposium on *Rhizoctonia*, Taichung, Taiwan, August 17-20.

Godoy-Lutz, G., J. Arias, E. Arnaud-Santana and J. R. Steadman. 1998. Web Blight Tolerance in Red Mottled Bean Lines in the Dominican Republic. American Phytopathological Society Caribbean Division Meeting, Managua, Nicaragua, October 26-30.

_____. 1997. Web Blight Affects Seed Yield and Quality of New Red Mottled Bean Cultivars in the Dominican Republic. Poster presented at the Bean Improvement Cooperative Meeting, Annapolis, MD, November 4-7.

Godoy-Lutz, G. and J. R. Steadman. 1997. Characterization of Web Blight Pathogen Isolates Infecting Wild Beans in Remote Areas of Northwest Argentina. Poster presented at the Bean Improvement Cooperative Meeting, Annapolis, MD, November 4-7.

Godoy-Lutz, G., J. R. Steadman, K. Powers and R. Higgins. 2000. Genetic Relationship Among Isolates of the Web Blight Pathogen on Common Beans Based on PCR-RFLP and Sequency of the ITS-rDNA. Proceedings of the 3rd International Symposium on *Rhizoctonia*, National Chung Hsing University, Taichung, Taiwan (ROC), August 17-20. Phytopathology 91(6):5199. (Abstract)

Gonzales, J. W., D. P. Coyne and W. W. Stroup. 1998. Iron Deficiency Chlorosis and Seed Yield in Dry Edible Beans Grown on High-pH Calcareous Soils. Poster presented at ASHS Meeting, Charlotte, NC, July 12-15.

Gonzales, J. W., D. P. Coyne, D. T. Lindgren, K. Eskridge, J. Steadman and G. Jung. 2001. Inheritance and Heritability of Leafhopper Resistance in Common Beans (*Phaseolus vulgaris* L.) Hort Science 36:456. (Abstract)

Goytia, J. M. A., J. A. Acosta G. and J. Ortiz. 1998. Precocidad en la Tolerancia a Sequia Terminal en Frijol (*Phaseolus vulgaris* L.). XVII Congreso de Fitogenetica, Acapulco, Gro., p. 170.

Grafton, K. F., J. B. Rasmussen, J. R. Steadman and C. Donahue. 2001. Potential New Sources of Resistance to White Mold in the *Phaseolus* Core Collections. Proceedings of Sclerotinia 2001 The XI International Sclerotinia Workshop, York, England: Central Science Lab, July 8-12, p. 153-154. (Abstract)

Graham, P. H. 1998. El rol de los Microorganismos en la Sonstentibilidad de la Agricultura. Paper presented to the International Conference on Sustainable Agriculture, Quito, Ecuador.

Graham, P. H. and D. A. Allan. 2001. Can Soil Organisms Improve Agricultural Competitiveness and Sustainability? Also presented paper on Soil Microorganisms and Yield. Paper presented to the Brazilian Congress of Soil Science, Londrina, Brazil, August.

_____. 2001. Paper presented to the Brazilian Congress of Soil Science, Londrina, Brazil, August.

Graham, P. H., K. G. Ballen, G. Bernal, B. Tlusty and S. Reddy. 2000. *Rhizobium gallicum*: A Misplaced Praise Rhizobium. Proceedings of the 17th North American Conference on Symbiotic Nitrogen Fixation, Quebec, p. 34, invited paper.

Green, S. K., S. L. Shih, M. Zaidan, D. P. Maxwell, M. K. Nakhla, H. Czosnek and A. Varma. 1998. Tomato Leaf Curl Virus and Mungbean Yellow Mosaic: Two Economically Important Geminiviruses in Asia. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

Guzman, P., P. Gepts, S. Temple, A. B. C. Mkandawire and R. L. Gilbertson. 1997. Group-Specific Detection of *Phaeoisariopsis griseola* from Infected Bean Leaves by Polymerase Chain Reaction (PCR). Phytopathology 87:S37 (Abstract).

Hangen, L. A. and M. R. Bennink. 2001. Consumption of *Phaseolus vulgaris* (Black Beans or Navy Beans) Reduces Colon Cancer in Rats. FASEB Journal 15:A61.

Hanson, S. F. and D. P. Maxwell. 1998. Inhibition of Geminiviral Replication by Trans-Dominant *rep* Gene Mutants. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

_____. 1997. Trans-Dominant Inhibition of Geminiviral Replication by *rep* Gene Mutants of Bean Golden Mosaic Geminiviruses. Phytopathology 87:S39 (Abstract).

Hosfield, G. and J. Beaver. 2001. Cooking Time in Dry Bean and Its Relationship to Water Absorption. Paper presented at the Annual Meeting of the American Society for Horticulture Science, Sacramento, CA, July 22-25.

Hosfield, G. L. and J. S. Beaver. 2001. Variability for Cooking Time in Dry Bean. HortScience 36:455-456. (Abstract)

Hosfield, G. L. and C. W. Beninger. 1999. Differential Leaching of Anthocyanins During Thermal Processing of Selected Black Bean (*Phaseolus vulgaris* L.) Genotypes. HortScience 34(3):509.

Hosfield, G. L., M. R. Bennink, C. W. Beninger, R. M. Engleright and M. T. Ospina. Variability for Starch Digestibility in Dry Bean (*Phaseolus vulgaris* L.). HortScience 33:471 (Abstract).

INIAP. 1998. Memorias del 1 Simposio para el Desarrollo Agrícola Sustentable, INIAP, p. 159.

_____. 1998. I Simposio para el Desarrollo Agrícola Sustentable. Quito, Ecuador, p. 159.

Ivankovich, C. and A. R. Bonilla. 1999. Analisis de la Percepcion del Concepto de un Frijol Molido, en Polvo, Fortificado con Hierro Mediante el uso de la Tecnica de Sesiones del Grupo.

Proceedings 1er Congreso Nacional de Ciencia y Tecnologia de Alimentos, San Jose, Costa Rica.

Jacinto, H. C., H. S. Azpiroz R., J. A. Acosta G., H. Hernandez S., B. Baltazar M. and I. Bernal L. 1998. Tiempo de Coccion y su Heredabilidad en Lineas Avanzadas de Frijol. XVII Congreso de Fitogenetica, Acapulco, Gro., p. 448.

Jere, F. K. 1999. Bean Production Trends in Mzuzu ADD. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Jung, G., H. Ariyaratne, D. P. Coyne, J. Nienhuis, S. Hirano and C. Upper. 1999. Consistency of Detected QTL for Bacterial Brown Spot Resistance Using RAPD Markers Over Environments in Common Bean. 96th Annual Meeting of the American Society for Horticultural Science, Minneapolis, MN, July 24-31.

Jung, G., J. Nienhuis, D. P. Coyne and H. M. Ariyaratne. 1998. Comparative Mapping of Three Bacterial, Three Fungal and One Virus Disease Resistance Genes in Common Bean. Paper presented at ASHS Meeting, Charlotte, NC, July 12-15.

Jung, G., P. Skroch, J. Nienhuis and D. Coyne. 1997. Genomic Analysis of Chromosomal Regions Introgressed from Tepary Bean Associated with CBB Resistance in *Phaseolus vulgaris* L. Paper presented at the Bean Improvement Cooperative Meeting, Annapolis, MD, November 4-7.

Kalonga, E. L. 1999. Bean Production Entrepreneurship and Land Pressure. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Kannan, S. and A. C. Mason. 1997. Bioavailability of Iron from Bean and Bean/Rice-Based Products. The FASEB Journal 22(3), A148 (Abstract).

Karkashian, J. P., O. F. Collado, M. K. Nakhla, D. P. Maxwell, L. Hilje and P. Rameriz. 1998. Enhanced Symptom Severity in Mixed Infections of Two Tomato-Infecting Geminiviruses in Costa Rica. Poster presented at the 7th Latin American and Caribbean Workshop on Whiteflies and Geminiviruses, Managua, Nicaragua, October.

Karkashian, J. P. and D. P. Maxwell. Molecular Analysis of the coat Protein Gene Promoter of Bean Golden Mosaic Geminivirus. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

Karkashian, J. P., M. K. Nakhla, D. P. Maxwell and P. Ramirez. 1998. Molecular Characterization of Tomato-Infecting Geminiviruses in Costa Rica. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

_____. 1998. Enhanced Symptom Severity in Mixed Infections of Two Tomato-Infecting Geminiviruses in Costa Rica. APS Caribbean Division, Nicaragua, October.

Karkashian, J. and C. Zuniga. 1999. Geminivirus Diversity: A Proposal for a Regional Diagnosis Program. Paper presented at the 2nd Regional Workshop on Horticultural Crop Genetic Resources, San Salvador, El Salvador, August 24-26. Conference organized by

REDCAHOR (Red Centroamericana de Hortalizas).

Karkashian, J., C. Zuniga, D. Maira, D. Maxwell and P. Ramirez. 2000. Estudio Molecular de los Geminivirus que Afectan Frijol en Costa Rica. IV Taller Annual de Resultados de Investigacion y Extension. PITTA-FRIJOL Programa de Investigacion y Transferencia de Tecnologia Agropecuaria en Frijol: (MAG, UCR, UNA, ONS, CNP, ITCR). Estacion Experimental Fabio Baudrit Moreno, Alajuela, Costa Rica, October 5-6.

Kashuliza, A. K. 1998. Financing Farmer Cooperatives in Tanzania: Challenges of Market Liberalization and Options. Paper presented at the Agricultural Economics Society of Tanzania (AGREST) Scientific Conference, Morogoro, May.

Kausi, M. J. 1999. Bean Production Trends in Shire Valley ADD. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Kelly, J. D. 2000. Participated as commentator at Bean Research Production Workshop, Kimberly, Idaho, August 3-4. Webster D. and J. D. Kelly. 2000. Commentary on Germplasm Enhancement and Cultivar Development, Conference Proceedings, p. 55-60.

_____. 1999. Biotechnology Advances and Classical Genetic Improvement in Beans. Invited to give the keynote address at the National Bean Improvement Conference, VI Renafe Meeting, Salvador, Bahia, Brazil, November 21-26.

_____. 1999. Perspectives of Plant Breeding in the Next Millennium. Biowork II Symposium, Plant Breeding in the Turn of the Millennium. University of Vicosa, M.G., Brazil.

_____. 1998. Mejoramiento Genetico del Frijol en Michigan. Presentacion en el PROFRIJOL Taller Efectuado en Veracruz, Veracruz, Mexico, January 27-31.

_____. 1998. Mejoramiento Genetico del Frijol. Presentacion en el I Simposium Internacional de Frijol Efectuado en Zacatecas, Zacatecas, Mexico, May 27-29.

_____. 1998. Breeding Beans for Sustainable Agriculture. XVII Congreso de Fitogenetica, SOMEFI, Acapulco, Guerrero, Mexico, October 5-9.

_____. 1997. The Genus *Phaseolus*. Presented at the Symposium Food Legumes: Cytogenetics and Germplasm Enhancement held as part of ASA Meetings, Anaheim, CA, October 26-31.

Kelly, J. D. and J. R. Kolkman. 2001. QTL Analysis of Resistance to White Mold in Common Bean. Presented a poster at Sclerotinia 2001 Workshop in York, U.K. July 8-12.

Kelly, J. D., M. Melotto and E. Esteban. 2000. Integrando la Biotecnologia con los Metodos Clasicos en la Mejora de la Judia. Invited Keynote Address at the Seminario de Mejora Genetica Vegetal Workshop, Lugo, Spain, November 22-24.

Kurle, J. E., C. Estevez de Jensen and J. A. Percich. 2001. Tillage Effects of Root Rot Severity and Seed Yield in Soybean and Dry Bean. *Agronomy Abstracts*.

Lopez-Salinas, E. 1998. Experiencias de la Produccion de Semillas de Frijol Kilo x Kilo. Presentacion en la XLIV Reunion Anual del PCCMCA. Reunion Mesoamericana de Agronomia, Montelimar, Nicaragua, April 20-26.

Mabagala, R. 2001. Overview of Bena Pathogens Disseminated Through Seed. Presented in Arusha, Tanzania, January 12-14, 2001 in the Workshop "Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs."

_____. 2000. Simple Testing Techniques for Halo Blight and Common Bacterial Blight. On-Farm Seed Production Seminar for Seed Farm Managers. Agricultural Sector Program Support-Seed Unit, Ministry of Agriculture and Cooperatives, April 20.

_____. 1999. Seed Health Programmes in Tanzania. International Follow up Seminar on Management and Extension in Plant Protection. German Foundation for International Development (DSE) and Plant Protection Division of the Ministry of Agriculture and Cooperatives, November 8-25.

Macchiavelli, R. and J. S. Beaver. 1999. Analysis of Genotype-by-Environment Interaction with AMNI Models using SAS PROC Mixed. Presentation at the XI Conference on Applied Statistics in Agriculture, Manhattan, Kansas.

Maghembe, N. A., C. L. Rweyemamu and S. Nchimbi-Msolla. 1999. Use of Bean Model BEANGRO V3.1 for Drought Resistance Studies under Morogoro Conditions. In Faculty of Agriculture (FoA). Agricultural Research Challenges for the 21st Century. Proceedings of the 4th Annual Research Conference of the Faculty of Agriculture, Morogoro, Tanzania, November 17-19.

Manyuka-Banda, B. D. 1999. Bean Production Trends in Blantyre ADD. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Masangano, C. 2001. Factors Influencing Farmers Willingness to Adopt Kalima in Malawi. Presented in Arusha, Tanzania, January 12-14, 2001 in the Workshop "Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs."

Maxwell, D. P. Maxwell, D. P. 2001. Geminiviruses: Passport to the World. Antigo, WI. Featured speaker for the Wisconsin Certified Potato Growers Association Annual Meeting, March.

_____. 2001. Diversity of Begomoviruses and their Management. Symposium speaker at the Caribbean Division of the American Phytopathological Society Meeting, Cuba, June.

_____. 2000. Geminiviruses: Characterization, Management Options and Antiviral

Strategies. Nebraska Wesleyan University, Lincoln, NE, September 15.

_____. 2000. Engineering Transgenic Beans and Tomatoes with Resistance to Tropical Viruses. Food Research Institute Symposium, Madison, WI, May 31.

_____. 2000. Bean-Infecting Geminivirus; Recent Advances. Bean/Cowpea CRSP Midcourse 2000 Researchers Meeting, Michigan State University, East Lansing, MI, April.

_____. 1998. CRSP Programs as a Model for International Agriculture Funding. APS Caribbean Division, Nicaragua, October.

Maxwell, D. P., R. L. Gilbertson, S. F. Hanson and J. Faria. 2000. Research Advances in Bean-Infecting Geminiviruses. 6th National Bean Research Conference, San Salvador, Brazil, CNFAF/EMBRAPA, November.

Maxwell, D. P., N. K. Nakhla, J. L. Potter, L. Mejia, J. Karkashian, P. Ramirez and M. M. Roca de Doyle. 2001. Diversity of Tomato-Infecting Geminiviruses and Implications for Management. Tomato Breeders Round table, Antigua, Guatemala, March.

Mayek, P. N., C. Lopez C. and J. A. Acosta G. 1998. Efecto del Deficit Hidrico y *Macrophomina phaseolina* en las Relaciones Hidricas y el Crecimiento del Frijol. XVII Congreso de Fitogenetica, Acapulco, Gro., p. 164.

Mejia, L. and J. L. Potter. 2001. General Detection Methods for Whitefly-Transmitted Geminiviruses and Applications for Management. ICTA, Guatemala City, March 30.

Mejia, L., R. E. Teni, M. K. Nakhla and D. P. Maxwell. 1998. Tomato-Infecting Whitefly-Transmitted Geminiviruses in Guatemala. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

Membreno, J. B., M. Zapata, J. Beaver and J. Smith. 2000. Microflora Portada en Semillas de Frijol (*Phaseolus vulgaris* L.). Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

Miklas P. N. and J. D. Kelly. 2000. Marker-Assisted Selection for Enhanced Disease Resistance in Common Bean. Chosen for oral presentation at the Durable Disease Resistance Conference held in Wageningen, Holland, November 29- December 1.

Mkandawire, A. B. C. 1999. Potential of Beans for Crop Diversification in Malawi. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Mkandawire, A. B. C., S. Benati, D. Pankomera and N. Z. Lupwayi. 1997. Drought Tolerance in African Common Bean Genotypes. African Crop Science Conference Proceedings 3:239-246.

Mkandawire, A. B. C., N. I. K. Mphangwe, A. N. Mangwele and N. Z. Lupwayi. 1997. Biological Nitrogen Fixation in Africa Common Bean (*Phaseolus vulgaris* L.) Genotypes. African Crop Science Proceedings 3:315-322.

Mink, G. I. 1998. Recombination within the BCMV Subgroup: Implications for Africa. Presentation to the Third Pan-African Pathology Working Group Meeting, Thika, Kenya, May 25.

_____. 1998. Legume-Infecting Potyviruses. Seminar presented at HRI, Wellesbourne, UK, April 23.

Mink, G. I. and J. R. Myers. 1998. Implications of Viral Recombination for Breeding Bean Varieties Resistant to BCMV and MCMNV. Seminar presented to TPRI, Arusha, Tanzania, April 30.

Msiska, B. N. C. 1999. Community-Based Small-Scale Bean Multiplication and Dissemination: The Experiences of Malawi Smallholder Seed Development Project (MSSDP) of ActionAid. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Msowoya, R. M. K. 1999. Bean Production Trends in Karonga Agricultural Development Division. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Msuku, W. A. B., H. R. Mloza-Banda, A. E. Ferguson and A. B. C. Mkandawire. 1998. Status of Seed-Borne Diseases in Malawi Bean Germplasm Collected from Markets. Paper presented at the 3rd Plant Pathology Working Group Meeting, Thika, Kenya, May 25-28.

Munoz, L. M., R. Y. Monge and A. R. Bonilla. Consumo de un Producto a Base de Frijol Fortificado con Hierro en Niños de Edad Pre-Escolar. Evaluation de sus Efectos en sus Estatus de Hierro. Congreso Internacional y Congreso Nacional de Salud Pública, San Jose, Agosto 13-14.

Mutlu, N., D. P. Coyne and K. S. Gill. 2001. Cloning, Sequencing and Mapping of P-Loop Containing Genes for Disease Resistance in *Phaseolus vulgaris* L. HortScience 36:562-563. (Abstract)

Mutlu, N., D. P. Coyne, S. O. Park and J. R. Steadman. 1999. Backcross Breeding with RAPD Molecular Markers to Enhance Resistance to Common Bacterial Blight in Pinto Beans. 96th Annual Meeting of the American Society for Horticultural Science, Minneapolis, MN, July 24-31.

Mutlu, N., D. P. Coyne, J. R. Steadman, J. Reiser and L. Sutton. 2001. Progress in Backcross Breeding with RAPD Molecular Markers to Pyramid QTLs for Resistance to Common Bacterial Blight in Pinto and Great Northern Beans. HortScience 36:450. (Abstract)

Mwale, C. H. L. 1999. The Status of Bean Production in Lilongwe Agricultural Development Division. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Mwenda, A. R. E. 1999. The Concept of Smallholder Producer and Estate Producer in Development of Bean Entrepreneurship. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Myers, J. R. 2000. Tomorrow's Snap Bean Cultivars. Idaho Bean Workshop and Field Day, Kimberly, ID, August 3-4 (invited presentation).

_____. 2000. Breeding Activities in the East African Project Vision Statement, Bean/Cowpea CRSP Midcourse 2000 Researchers Meeting, April 8-16 (invited presentation).

_____. 1999. Utilizing and Evaluating NPGS Germplasm Resources and Breeding Development. Farmer Cooperative Genome Project Meeting, Salem, OR, March 26-28, invited presentation.

_____. 1999. Breeding Green Beans for the 21st Century. Plant Breeding and Biotechnology Seminar Series Winter Term 1999. Ohio State University, invited presentation.

_____. 1998. New Insights into the Genetics of BCMV Resistance. Presentation to the 3rd Pan-Africa Pathology Working Group Meeting, Thika, Kenya, May 25.

Nakhla, M. K. 1999. Workshop on Basic Techniques in Plant Biotechnology and Molecular Biology. University of West Indies, Kingston, Jamaica, August 17-19. (Scientists from the English speaking Caribbean Basin attended this workshop where geminiviruses were used as the model for understanding molecular biology techniques.

Nakhla, M. K., A. J. Hruska and D. P. Maxwell. 1998. Geminiviruses Associated with Tomatoes, Beans and Sida spp. in Honduras. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

Nakhla, M. K. and D. P. Maxwell. 2000. Detection Methods and Management Strategies for Geminiviruses. University of Tunisia, Tunis, November.

Navarrete, K. and A. R. Bonilla. 1999. Efecto de la Molienda y Coccion en la Digestibilidad *in vitro* Efecto de la Molienda y Coccion en la Digestibilidad *in vitro* Efecto de la Molienda y Coccion en la Digestibilidad *in vitro* del Almidon del Frijol (*Phaseolus vulgaris*). Proceedings 1er Congreso Nacional de Ciencia y Tecnologia de Alimentos, San Jose, Costa Rica.

Navarrete-Maya, R. 1998. Reaccion de Variedades de Frijol (*Phaseolus vulgaris* L.) A *Fusarium* spp. Presentation en la XLIV Reunion Anual del PCCMCA, Reunion Mesoamericana de Agronomia, Montelimar, Nicaragua, April 20-26.

Navarrete-Maya, R. and J. A. Acosta-Gallegos. 1998. Resistencia del Frijol al Tizon de Halo en el Valle de México y Progreso de la Enfermedad. Presentacion en el I Simposium Internacional de Frijol Efectuado en Zacatecas, Zac., May 27-29.

Nchimbi-Msolla, S. 2001. Performance of 35 Common Bean Obtained from the Drought Resistant Nursery. Presented in Arusha, Tanzania, January 12-14, 2001 in the Workshop "Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs."

Nchimbi-Msolla, S. and R. Misangu. 2001. Seasonal Distribution of Bruchids in Bean Seed in Areas of Tanzania. Presented in Arusha, Tanzania, January 12-14, 2001 in the Workshop "Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs."

Nin, J., F. Saladin, E. Arnaud, J. Steadman, D. P. Coyne and J. S. Beaver. Liberacion y Promocion de Nuevas Variedades de Frijol en la Republica Dominicana. Paper presented at the XLIV Annual PCCMCA Regional Meeting, Managua, Nicaragua, April 20-23.

Nova, S. 2000. Efecto de la Densidad Poblacional en el Rendimiento de Ocho Variedades de Habichuelas en el Valle de San Juan de la Maguana. Oral Presentation.

Nunez, G. S., A. Castillo R. and J. A. Acosta G. 1998. Efecto de Antracnosis Sobre el Rendimiento de Lineas de Frijol Flor de Mayo en los Altos de Jalisco. XVII Congreso de Fitogenetica, Acapulco, Gro., p. 175.

Nyirenda, G. K. C. 1999. Bean Pests and their Management in Malawi. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Padilla, R. S., E. Acosta D., J. A. Acosta G and R. Ochoa M. 1998. La Temperatura Foliar Como Indicador de la Tolerancia al Estres Hidrico en Ocho Genotipos de Frijol. XVII Congreso de Fitogenetica, Acapulco, Gro., p. 162.

Park et al. 2000. Mapping of QTL for Resistance to White Mold. Presented two talks and a poster paper on Tagging a Gene for Resistance to Rust at the Annual Meeting of the American Society of Horticulture Science, Orlando Florida, July 23-26.

Park, S. O., D. P. Coyne and G. Jung. 1998. Gene Estimation, Associations of Traits and Confirmation of QTL for Common Bacterial Blight Resistance in Common Bean. Poster presented at ASHS Meeting, Charlotte, NC, July 12-15.

Park, S. O., D. P. Coyne, G. Jung, E. Arnaud-Santana and H. Ariyaratne. 1998. Detection and Mapping of RAPD Markers Associated with QTL Affecting Seed Size and Shape in Common Bean. Paper presented at ASHS Meeting, Charlotte, NC, July 12-15.

Park, S. O., D. P. Coyne, N. Mutlu, G. Jung and J. R. Steadman. 1999. Confirmation of Molecular Markers and Flower Color Associated with QTL for Resistance to Common Bacterial Blight in Common Beans. 96th Annual Meeting of the American Society for Horticultural Science, Minneapolis, MN, July 24-31.

Park, S. O., D. P. Coyne, N. Mutlu, G. Jung, J. R. Steadman and L. Sutton. 1999.

Confirmation of Molecular Markers and Flower Color Associated with QTL for Resistance to Common Bacterial Blight in Common Beans. Bean Improvement Cooperative Meeting, Calgary, Alberta, Canada, November 10-11.

Park, S. O., D. P. Coyne and J. R. Steadman. 1999. Molecular Markers Linked to the *Ur-7* Gene Conferring Specific Resistance to Rust in Common Bean. 96th Annual Meeting of the American Society for Horticultural Science, Minneapolis, MN, July 24-31 and the Bean Improvement Cooperative Meeting, Calgary, Alberta, Canada, November 10-11.

Park, S. O., D. P. Coyne, J. R. Steadman and G. Jung. 1999. Mapping of Molecular Markers and Seed Coat Pattern Associated with QTL Affecting White Mold Resistance in Common Bean. 96th Annual Meeting of the American Society for Horticultural Science, Minneapolis, MN, July 24-31.

Perez, H. P., E. Acosta D. and J. A. Acosta G. 1998. Efecto de la Sequia en la Calidad Fisica, Culinaria y Nutricional de 20 Genotipos de Frijol Comun. XVII Congreso de Fitogenetica, Acapulco, Gro., p. 449.

Ploper, L. D., P. E. Rodriguez-Pardina, I. G. Laguna, G. A. Truol, K. Hanada, G. Rivas-Platero, P. Rameriz and P. S. Herrera. 1998. Presencia de un Geminivirus en Cultivos de Soya del Noroeste Argentino. EEAOC-Avance Agroindustrial (Argentina), Ano 19, No. 74.

Porch, T., J. C. Rosas, S. Serrano and R. Bernsten. 2000. Potencial para el Incremento en la Produccion de Frijol Comun en Zonas Bajas de Honduras. Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

Posa, M. C., G. L. Hosfield, J. D. Kelly and K. F. Grafton. 1999. Variability for Processing Quality Traits in Two Recombinant Inbred Populations of Kidney Bean. Poster presentation at 96th Annual Meeting of the American Society for Horticultural Science, Minneapolis, MN, July 28-31.

Potter, J. L. 2001. Introduction to Whitefly-Transmitted Geminiviruses. Workshop on Molecular and Serological Methods for Detection of Plant Viruses. San Carlos University, Guatemala City, April 25-27.

_____. 2001. Introduction to PCR and DNA Hybridization: Primer Design, Extraction Methods, Agarose Gel Electrophoresis. Workshop on Molecular and Serological Methods for Detection of Plant Viruses. San Carlos University, Guatemala City, April 25-27.

_____. 2000. Evaluation of Molecular Methods for Detection of Bean-Infecting Geminiviruses. Department of Plant Pathology, University of Wisconsin-Madison, October.

Ramirez, P. 1999. Molecular Strategies for Geminiviruses Control and Geminiviruses Infecting Cucurbits. Horticulture Crop Breeding and Genetics Workshop: The Use of Molecular Markers. CATIE, Turrialba, Costa Rica, June 7-12. (Sponsored by REDCAHOR-Red Centroamericana de Hortalizas).

Ramirez, P., J. Karkashian and D. Maxwell. 1999. Curso Sobre Mejoramiento Genetico de Hortalizas: Aplicacion de Marcadores Moleculares. Conferencia Impartida: Estrategias

Moleculares para el Control de los Geminivirus. Organizado por REDCAHOR/IICA, CATIE, Turrialba, Costa Rica, June 7-12.

Ramirez, P., J. P. Karkashian, D. P. Maxwell and C. Rivera. 1998. Molecular Characterization of Geminiviruses in Costa Rica. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

Ramirez, P. J. Karkashian, C. Zuniga, M. Diaz, R. Rojas, D. Maxwell, A. Serrano, O. Collado and C. Rivera. 2000. Estrategias Moleculares para el Control de Geminivirus (PROGEMINI). Primer Congreso de Investigación Costa Rica en el año 2000, los retos y Propuestas de Investigación en el III Milenio. San Jose, Costa Rica, March 14-15.

Ramirez, P., D. Maira, C. Zunga, D. Maxwell and J. Karkashian. 2000. Caracterización de Geminivirus en Costa Rica (PROGEMINI). VIII Congreso Latinoamericano y del Caribe Sobre Manejo Integrado de Plagas. IX Taller Latinoamericano y del Caribe Sobre Mosca Blanca y Geminivirus, November 22-24.

Ramirez, P. and D. P. Maxwell. 2001. Why Should We Identify Geminiviruses? Central American Whitefly Meeting held in conjunction with the Caribbean Division of the American Phytopathological Society Meeting, Cuba, June.

Rivera-Vargas, L. I., J. Beaver, D. E. Purcifull, H. Hiebert and V. Bracero-Acosta. 1999. ELISA and PCR as Diagnostic Tools for Bean Golden Mosaic Virus in Puerto Rico. Paper presented at the Annual Meeting of the Caribbean Division of the American Phytopathological Society, San Juan, Puerto Rico, June 21-25.

Roca de Doyle, M. 1999. The Geminivirus-Whitefly Complex: Current Situation in Honduras after Hurricane Mitch. APS Caribbean Division, Puerto Rico, June.

_____. 1999. Update on Geminivirus-Whitefly Complex in Honduras. Vegetable Production Workshop, September, San Salvador.

Rodriguez-Burger, A. P., A. C. Mason and S. S. Nielsen. 1997. Use of Fermented Beans Combined with Rice to Develop a Weaning Food of High Nutritional Quality. Institute of Food Technologists National Meeting, Orlando, Florida.

Roman, B. and J. S. Beaver. 2000. Heredabilidad de Tolerancia al Calor en una Población de Habichuela (*Phaseolus vulgaris* L.) de Origen Andino. Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

Rosales, S. R., R. Ochoa M. and J. A. Acosta G. 1998. Fenología y Adaptación del Frijol en el Altiplano de México. XVII Congreso de Fitogenética, Acapulco, Gro., p. 165.

Rosas, J. C. 2001. Experiencias en la aplicacion de metodologias participativas para el mejoramiento genetico del frijol comun en Centro America. Proceedings of the Annual Meeting of the Collaborative Program for Participatory Plant Breeding in the Mesoamerican Region, Managua, Nicaragua, May 28-30.

_____. 2001. Experiencias en la aplicacion de metodologias participativas para el mejoramiento genetico del frijol comun en Centro America. Proceedings of the XLVII Annual Meeting of the PCCMCA (Cooperative Program for the Improvement of Crops and Animals), San Jose, Costa Rica, April 2-6.

_____. 2001. Enfoques participativos para el mejoramiento genetico del frijol comun y maiz en Centro America. Proceedings of the Conferencia Internacional sobre Futuras Estrategias para Implementar el Mejoramiento participativo en los Cultivos de las Zonas Altas en la Region Andina, Quito, Ecuador, September 23-27.

_____. 2000. Participatory Methodologies for the Genetic Improvement of Common Beans in Honduras. Proceedings fo the III International Seminar and Small Grants Workshop, PRGA/CGIAR, Nairobi, Kenya, November 5-11.

_____. 2000. Metodologias Participativas para el Mejoramiento Genetico del Frijol Comun en Mesoamerica. Paper presented at the Annual Meeting of the Participatory Plant Breeding Program for Mesoamerica, Guatemala City, Guatemala, April 25-26.

_____. 2000. Mejoramiento Genetico del Frijol Rojo Mesoamericano para Centro America y El Caribe. Paper presented at the National University Scientific Annual Meeting, La Ceiba, Honduras, May 22-26.

_____. 1999. Programas de Mejoramiento en Frijol. Presented at the Short Course on Genetic Improvement of Vegetable Crops: Applications of Molecular Markers. Organized by REDCAHOR (Vegetable Research and Development for Central America, Dominican Republic and Panama). Turrialba, Costa Rica, June 7-12.

_____. 1998. Mejoramiento de frijol rojo pequeno en Honduras. In Proceedings of Taller de mejoramiento de frijol negro mesoamericano. PROFRIJOL/INIFAP, Veracruz, México, January 27-31, p. 85-92.

_____. 1998. Metodologias Participativas para el Mejoramiento Genetico del Frijol. 2nd International Seminar on Systemwide Initiative on Participatory Research and Gender Analyses. SWI PRGA, CGIAR, Quito, Ecuador, September 7-12.

Rosas, J. C. and A. Castro. 2001. Presentations at the Short Course on Bean and Maize Breeding for Central America, Zamorano, Honduras, April 23-25.

_____. 2000. Mejoramiento Genetico del Frijol Mesoamericano en Centro America y El Caribe. Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

_____. 2000. Dry Bean in Central America: Production, Improvement and Future

Prospects. Paper presented at the Idaho Bean Workshop on Bean Research, Production and Utilization, Twin Falls, ID, August 3-4.

Rosas, J. C. and A. Castro (eds.). 1999. Experiencias en la Produccion Artesanal de Semilla de Frijol en Centro America. In Proceedings of the Workshop on Production and Distribution of Bean Seed, Zamorano, Honduras, August 3-6, p. 101.

_____. 1999. Variedades Mejoradas: Caracteristicas y Ventajas Agronomicas. Paper presented at the Short Course on Artisan Bean Seed Production organized by Seed of Hope Project/CIAT-CGIAR, El Zamorano, Honduras, April.

Rosas, J. C., J. A. Castro, J. J. Alan. 1998. Metodologias Participativas para el Mejoramiento Genetico del Frijol Comun. Taller de Mejoramiento Participativo. Organized by CPRO/DLO, The Netherlands, San Jose, Costa Rica, March 16-21.

Rosas, J. C., A. Castro, J. Beaver, C. A. Perez, A. Morales and R. Lepiz. 1999. Mejoramiento Genetico para Tolerancia a Altas Temperatureas y Resistencia a Mosaico Dorado en Frijol Comun. Paper presented at the XLV Annual Meeting of the PCCMCA, Guatemala City, Guatemala, April 12-16.

Rosas, J. C., A. Castro, J. Jimenez, J. Gonzales, F. Sierra and S. Humphries. 1999. Metodologias Participativas para el Mejoramiento in situ del Frijol Comun. Paper presented at the International Symposium and Workshops on Participatory Plant Breeding in Latin American and the Caribbean: An Exchange of Experiences, Quito, Ecuador, August 31-September 3.

Rosas, J. C., J. A. Castro and N. Valladares. 1998. Mejoramiento de Frijol Mesoamericano de Grano Rojo. Paper presented at the XLIV Annual PCCMCA Regional Meeting, Managua, Nicaragua, April 20-23.

_____. 1998. Mejoramiento de Frijol Rojo Pequeno en Honduras. Proceedings of the Workshop on Mejoramiento de Frijol Negro Mesoamericano. Organized by PROFRIJOL/INIFAP, Veracruz, México, January 27-31.

Roye, M. E., W. A. McLaughlin, M. K. Nakhla and D. P. Maxwell. 1998. Molecular Characterization of Geminiviruses from Jamaica. International Workshop on Bemisia and Geminiviruses, San Juan, Puerto Rico, June.

Rweyemamu, C. 2001. Common Bean Drought Studies Environmental Basis of Genotype Differences. Presented in Arusha, Tanzania, January 12-14, 2001 in the Workshop "Bean Seed Multiplication, Dissemination, Entrepreneurship and Quality Concerns in East Africa: Current Status and Future Needs."

Sabek, A. M., M. K. Nakhla, D. P. Maxwell and H. M. Mazyad. 1997. Use of the Polymerase Chain Reaction to Amplify and Detect Tomato Yellow Leaf Curl Virus DNA from Natural Infected Pepper. International Conference on Plant Pathology Research Institute, Giza, Egypt, September.

_____. 1998. Use of a Tomato Yellow Leaf Curl Geminivirus Probe for Detection of Geminiviruses in Plants and Whiteflies. International Workshop on Bemisia and Geminiviruses,

San Juan, Puerto Rico, June.

Salati, R., M. K. Nakhla, D. P. Maxwell, M. G. Carvalho, Y. M. Hou and R. L. Gilbertson. 1997. Complete Nucleotide Sequence of an Infectious Clone of Tomato Yellow Leaf Curl Geminivirus from the Dominican Republic. Phytopathology 87:S84.

Sanchez, M. J. L., F. Sanchez R., M. Lara F., J. L. Ortega C., J. A. Acosta G., A. Aguirre G. and F. Leon R. 1998. Utilizacion del Alopurinol en la Seleccion de Plantas Sobretransportadoras de Ureidos en Frijol (*Phaseolus vulgaris*). XVII Congreso de Fitogenetica, Acapulco, Gro., p. 166.

Sande, M. H. L. 1999. Beans in Kasungu ADD: Production Trends and Strategies for Improvement. In H. R. Mloza-Banda (ed.) 2000. Proceedings of the Bean/Cowpea CRSP Entrepreneurship Workshop, Lilongwe, Malawi, August 4-6.

Santana, E. A., G. Godoy-Lutz, J. C. Nin, F. Saladin, J. S. Beaver, D. P. Coyne and J. R. Steadman. 1998. Development of Five Tropically Adapted Disease Resistant Dry Bean Varieties. Poster presented at ASHS Meeting, Charlotte, NC, July 12-15.

Shalaby, A. A., M. K. Nakhla, M. S. Shafie, H. M. Mazyad and D. P. Maxwell. 1997. Molecular Characterization of Tomato Yellow Leaf Curl Geminivirus (TYLCV) Isolated from Pepper Collected in Egypt. International Conference of Plant Pathology Research Institute, Giza, Egypt, September.

Shih, S. L., L. M. Dolores, M. K. Nakhla, D. P. Maxwell and S. K. Green. 1998. A New Geminivirus Associated with a Leaf Curl Disease of Tomato in the Philippines. Plant Protection Bulletin 37:394-395.

Steadman, J. R. 2001. Oral presentation at Sclerotinia Workshop, York, England, July.

_____. 2001. Co-Authored papers presented at the following meetings: One paper at American Phytopathological Society (APS) Meeting, Salt Lake City, UT, August 25-29; One paper at APS-North Central Division, Santo Domingo, DR, November 1-4.

_____. 2000. Comparison of Two Contrasting Bean Pathogens and Disease Management Strategies. Seminars at USDA, Beltsville and Uppsala University, Sweden.

_____. 2000. Methods for Handling *Sclerotinia sclerotiorum* and Other Pathogens and use of RAPDs to Distinguish Species of *Sclerotinia*. Two posters presented at the Bean Improvement Cooperative Meeting, Calgary, Canada.

_____. 2000. Methods to Work with Bean Fungal Pathogens. Poster presented at the American Phytopathological Society North Central Division Meeting, Ohio State University.

_____. 2000. Bean Diseases. Presentation at the Idaho Bean Workshop and Field Day.

_____. 1999. What Does it Mean When Rust Chooses Between Andean and Middle American Bean? Invited Contribution in Workshop No. 12 on Co-Evolution or Coincidence: Unusual Host-Parasite Relationships. 96th Annual Meeting of the American Society for

Horticultural Science, Minneapolis, MN, July 24-31.

_____. 1999. Use of New Technologies in the Search for Improvement of White Mold Resistance in Dry Beans. Annual Dry Edible Bean Field Day, Scottsbluff, NE, August 18.

Steadman, J., J. Beaver, G. Godoy-Lutz and J. C. Rosas. 2001. Uso de un Vivero Movil Como Guia para Desplegar Genes de Resistencia a la Roya Frijol Comun and Estrategas para Seleccion Frijol Comun con Mayores Niveles de Resistencia a la *Mustia hilachosa*. Presented two talks at the PCCMCA Meeting, San Jose, Costa Rica, April 2-6.

Steadman, J. R., G. Godoy-Lutz and J. C. Rosas. 2001. Monitoring Pathogens Variability in Bean Rust with a Mobile Nursery. Phytopathology 91(6):5200. (Abstract)

Steadman, J., G. Godoy-Lutz, J. C. Rosas and J. S. Beaver. 2001. Uso de un vivero movil para guiar el uso de resistencia de la roya de frijol. Paper presented at the Annual Meeting of the Programa Cooperativo Centroamericano para el Mejoramiento de Cultivos y Animales (PCCMCA), San Jose, Costa Rica, April 2-6.

Steadman, J. R., J. Kolkman and K. M. Eskridge. 2001. Search for Resistance to *Sclerotinia sclerotiorum* in Common Bean Screening and Sources. Proceedings of Sclerotinia 2001 The XI International Sclerotinia Workshop, York, England: Central Science Lab, July 8-12, p. 63-64. (Abstract)

Steadman, J. R., D. Lindgren and J. Fenton. 1999. Pathogenic Variability of the Bean Rust Fungus in Nebraska and the Search for Stable Rust Resistance. Oral report to the Nebraska Dry Bean Commission.

Steadman, J. R., D. O Keefe, E. Kerr and D. Lindgren. 1997. Use of a Mobile Nursery to Monitor Pathogenic Variability in Bean Rust. Annual Meeting of the American Phytopathological Society, Costa Rica, October. Poster also presented at the Bean Improvement Cooperative Meeting, Annapolis, MD, November 4-7.

Steadman, J. R. and C. M. Sandlin. In press. Pathogenic Variation of the Bean Rust Pathogen from Africa and the Americas and Resistance Genes in Common Bean. Proceedings of the 7th International Congress of Plant Pathology and American Phytopathology Society Caribbean Division Annual Meeting, Managua, Nicaragua, October 26-30, 1998.

_____. 1998. Pathogenic Variation of the Bean Rust Pathogen from Africa and the Americas and Resistance Genes in Common Bean. International Congress of Plant Pathology, Edinburgh, Scotland, August 9-16.

Stout, J. T., H. T. Liu, J. E. Polston, R. L. Gilbertson, M. K. Nakhla, S. F. Hanson and D. P. Maxwell. 1997. Engineered *rep* Gene-Mediated Resistance to Tomato Mottle Geminivirus in Tomato. Phytopathology 87:S94.

Takegami, J. C. and J. S. Beaver. 2000. Estudio de Herencia de Resistencia a Mustia en Frijol Comun. Paper presented at the XLVI Annual Meeting of the PCCMCA, San Juan, Puerto Rico, May 1-5.

_____. 1999. Heredabilidad de Resistencia a la Mustia Hilachosa en Habichuela *Phaseolus vulgaris* L. Paper presented at the Annual Meeting of the Caribbean Division of the American Phytopathological Society, San Juan, Puerto Rico, June 21-25.

Thottappilly, G., S. Winter and D. P. Maxwell. 1998. Comparison of Whitefly-Transmitted Geminiviruses Infecting Cowpea and Lima Bean in Nigeria. International Plant Pathology Congress, Scotland, August.

Vance, C. P. and P. H. Graham. 2000. Symbiotic Nitrogen Fixation: Future in Agriculture. Proceedings of the 17th North American Conference on Symbiotic Nitrogen Fixation, Quebec, p. 41, invited paper.

Varela, E. R. and J. C. Rosas. 1998. Caracterizacion de Razas de Roya del Frijol. Paper presented at the XLIV Annual PCCMCA Regional Meeting, Managua, Nicaragua, April 20-23.

Yabba, M. D. and E. F. Foster. 1998. Bean Seedling Response to Abscisic Acid, Polyethylene Glycol, and Nutrient Solution. I. Root Growth. American Society of Agronomy Abstracts, p. 97.

_____. 1998. Bean Seedling Response to Abscisic Acid, Polyethylene Glycol, and Nutrient Solution. II. Shoot Growth. American Society of Agronomy Abstracts, p. 98.

Youssef, S. A., A. M. Sabek, M. H. El-Hammady, F. M. Abo El-Abbas, M. K. Nakhla, D. P. Maxwell and H. M. Mazyad. 1997. Detection and Identification of TYLCV Geminivirus Associated with Tomato Plants Showing Unusual Symptoms. International Conference of Plant Pathology Research Institute, Giza, Egypt, September.

Zuniga, C. M., R. Rojas, J. Karkashian, C. Rivera, D. Maxwell and P. Ramirez. 1998. Deteccion e Identificacion en Cultivo de Papaya (*Carica papaya*) en San Carlos, Provincia de Alajuela, Costa Rica. APS Caribbean Division, Nicaragua, October.

E. THESES

Alvarado, N. 1999. Diagnostico Participativo de la Problematica en el Cultivo del Frijol Comun en Cuatro Comunidades del Municipio de Yorito, Honduras. Thesis Ing. Agr., Centro Universitario Regional del Litoral Atlantico, Universidad Nacional Autonoma de Honduras, p. 59.

Argenal, E. R. 1999. Caracterizacion de Aislamientos de *Xanthomonas campestris* pv. *Phaseoli* y Evaluacion de Fuentes de Resistencia a la Bacteriosis Comun del Frijol. Thesis Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 29.

Ariyaratne, H. M. 1997. Pathogenic Variation for Halo Blight Bacterium and Mapping of Loci for Multiple Disease Resistance in Common Bean. Ph.D. Dissertation, University of Nebraska, Lincoln, December.

Baiges, S. 1997. Evaluacion y Seleccion de Habichuela (*Phaseolus vulgaris* L.) Para Adaptacion a las Altas Temperaturas. M.S. Thesis, University of Puerto Rico, Mayaguez, PR.

- Balardin, R. S. 1997. Traditional and Molecular Characterization of Variability in *Colletotrichum lindemuthianum*. Ph.D. Dissertation, Michigan State University, p. 141.
- Bernal, G. R. 2001. The Diversity and Symbiotic Promiscuity of the Rhizobia Associated with *Phaseolus vulgaris* L. in its Ecuadorian and Mexican Centers of Origin. Ph.D. Dissertation.
- Bravo, M. A. 1999. Incremento de la Productividad y Rentabilidad del Frijol Mediante Investigacion participativa en el Municipio de El Rosario, Olancho. Thesis Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 61.
- Castro Zuniga, J. A. 1998. Estudio de la Productividad y Aceptacion de Variedades Mejoradas de Frijol (*Phaseolus vulgaris* L.) En la Region Centro Oriental de Honduras. M.S. Thesis, University of Puerto Rico, Mayaguez, PR.
- Chatchawankanphanich, O. 1997. Inhibition of Geminiviral Replication in a Transient Assay by Expression of Tomato Leaf Curl Geminivirus *rep* Gene Antisense RNAs. Ph.D. Dissertation, University of Wisconsin-Madison, June, p. 1-114. (Study was a model system study for geminiviruses).
- Christiansen, I. 2001. Variation in Di-Nitrogen Fixation among Andean Bean (*Phaseolus vulgaris* L.) Genotypes Grown at Low and High levels of P Supply. Ph.D. Dissertation.
- Cordoba-Sequeira, A. 1998. Estimation of the Shelf Life of a Dehydrated Bean Product (*Phaseolus vulgaris*) Fortified with Iron and Ascorbic Acid. Thesis-Licenciatura, Escuela de Tecnologia de Alimentos, University of Costa Rica.
- Elvir, F. M. 1998. Evaluacion de las Perdidas en Rendimiento Ocasionadas por la Mancha Angular (*Phaeoisariopsis griseola*) en Frijol Comun. Thesis Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 25.
- Estevez de Jensen, C. 2001. Biocontrol of Kidney Bean Root Rot in Minnesota. Ph.D. Dissertation.
- Estrada-Valle, J. 2001. A Subsector Overview of the Guatemalan Bean Industry: Constraints and Opportunities for Vertical Coordination and Sustained Growth. M.Sc. Thesis, Department of Agricultural Economics, Michigan State University, East Lansing, MI.
- Gomez, X. 2000. Diagnostico de la Produccion de Frijol y Factores Socio-Economics Afines para la Aplicacion de Metodologias de Mejoramiento Participativo. Thesis Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 62.
- Gondwe, B. J. 1998. Ecology, Epidemiology and Pathogenic Variability of *Pseudomonas syringae* pv. *phaseolicola* in the Southern Highlands of Tanzania. Ph.D. Dissertation, Sokoine University of Agriculture, Morogoro, Tanzania.
- Gonzales, T. W. 1998. Effect of Foliar Fe-Sprays on Iron Deficiency Chlorosis and Seed Yield of Dry Beans (*Phaseolus vulgaris* L.) Grown on High pH Calcareous Soils. M.S. Dissertation, University of Nebraska-Lincoln, August.

- Hanson, S. F. 1997. Inhibition of Geminiviral DNA Replication by Trans-Dominant *rep* Gene Mutants. Ph.D. Thesis, University of Wisconsin-Madison, June, p. 1-163.
- Haro, M. A. 1998. Efecto del Encalamineto y Fertilizacion con Nitrogeno y Fosforo en el Rendimiento y Rentabilidad del Frijol Comun. Thesis Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 58.
- Jama, A. O. 1999. Drought Adaptation in Common Bean (*Phaseolus vulgaris*). Ph.D. Dissertation, Michigan State University, East Lansing, MI, p. 112.
- Karkashian, J. 1998. Molecular Analysis of the Coat Protein Promoter for Bean Golden Mosaic Geminivirus. Ph.D. Thesis, University of Wisconsin-Madison, June.
- Katsvairo, T. W. 1999. Yield, Yield Components and Nitrogen Partitioning in Bambara Groundnut *Vigna subterranea*, Common Bean *Phaseolus vulgaris*, and Cowpea *Vigna unguiculata* Grown under Stress and Non-Stress Soil Moisture Conditions. M.S. Thesis, Michigan State University, East Lansing, MI, p. 97.
- Lee, T. J. 2001. Development of Transgenic Tomatoes Conferring Early Resistance to Bacterial Wilt and Approaches for Transformation of common Bean through an Agrobacterium-Mediated Method. Ph.D. Thesis, University of Nebraska-Lincoln, NE, p. 1-138.
- Martínez, C. K. 1999. Evaluacion de Germoplasma de Frijol por Tolerancia a Suelos con Bajos Niveles de Fertilidad. Thesis Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 31.
- Martínez, P. J. 1998. Establecimiento de una Planta Empacadora de Frijol en la Empresa Asociativa de Campesinos de Produccion El Plan , Moroceli, El Paraiso, Honduras. Thesis Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 83.
- Melotto, M. 1999. Genetic Inheritance and Molecular Cloning of Anthracnose Resistance Genes in Common Bean. Ph.D. Dissertation, Michigan State University, East Lansing, MI, p. 112.
- Mutlu, N. 1998. Enhancement of Resistance to Common Bacterial Blight in Pinto Bean. M.S. Thesis, University of Nebraska-Lincoln, NE, p. 95.
- Park, S. O. 1997. Molecular Markers Selection for Disease Resistance and Other Traits in Intraspecific Bean Species Crosses. Ph.D. Dissertation, University of Nebraska-Lincoln, August.
- Penjuan, W. B. 1999. The Identification de Fuentes de Resistencia Utilizando Aislamientos Hondureños de *Xanthomonas campestris* pv. *phaseoli* y su importancia en el Manejo de la Bacteriosis Comun del Frijol. Ing. Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 31.
- Ponce, D. M. 1997. RAPD Molecular Markers for Genes Controlling Seedling Lethality and Leaf Crippling in Common Beans. Ph.D. Dissertation, University of Nebraska-Lincoln, September.
- Schneider, K. A. 1999. Breeding for Resistance to Fusarium Root Rot in Bean *Phaseolus vulgaris*. Ph.D. Dissertation, Michigan State University, East Lansing, MI, p. 119.

Shield, W. 2001. An Analysis of the Bean Subsector in Haiti and Private Sector Production and Distribution of Improved Seed. M.Sc. Thesis, Department of Agricultural Economics, Michigan State University, East Lansing, MI.

Takegami, J. C. 2000. Estudio de Herencia de Resistencia a Mustia Hilachosa (*Rhizoctonia solani* Kuhn) en Habichuela Comun. M.S. Thesis, University of Puerto Rico, Mayaguez, p. 62.

Vargas, F. 2000. Niveles de Aceptacion de Germoplasma Mejorado de Frijol Evaluado por Pequeños Agricultores Mediante Metodologías Participativas en Honduras. Thesis Ing., Agr., Escuela Agrícola Panamericana, Zamorano, Honduras, p. 51.

Viquez, F. 1999. Determinacion de los Principales Polisacaridos no Almidonosos Causantes de Flatulencia en el Frijol Comun (*Phaseolus vulgaris* L.). Efecto de la Adicion de una Pectinasa y una Celulasa Sobre su Digesibilidad y Aceptabilidad. M.S. Thesis, Maestria en Ciencia de los Alimentos, Universidad de Costa Rica.

Yabba, M. 1997. Assessment of Root Morphology as an Indicator of Drought Resistance in Common Bean (*Phaseolus vulgaris* L.). M.S. Thesis, Michigan State University.

F. WEB-BASED MATERIALS, VIDEOS, RADIO AND TV

Beaver, J. 1998. Dry Bean Technology Package for Puerto Rico.
www.uprm.edu/wciag/agronomy/conjuntos/beans

Coyne, D. and J. R. Steadman. 2000 and 2001. Each gave separate talks on progress in their dry bean research at the Nebraska Dry Bean Growers Annual Field Tour at the Panhandle Research and Extension Center, Scottsbluff, NE, August 7, 2001 and also presented research reports to the Nebraska Dry Bean Commission via video conferencing from Lincoln to Scottsbluff, November 12, 2000.

Graham, P. and J. Swenson. 2001. Update to the Rhizobium Research Laboratory website,
<http://www.rhizobium.umn.edu>.

_____. 1998. The Rhizobium Research Laboratory. This website is available in both English and Spanish versions. <http://www.rhizobium.umn.edu>

Godoy-Lutz, G. 2000. Management of Web Blight. Video (in Spanish) produced with funds provided by PROFRIJOL. The video presents basic aspects of the biology, epidemiology and control of web blight. It was designed for agronomists and bean producers for Central American and the Caribbean region. The video will be used as a teaching tool by the national programs of countries of the PROFRIJOL network.

The CRSP Project started a series of radio and local TV spots to inform bean growers about practices to follow to secure high yields and about the benefits of the new bean releases.

Miles, C. A. 2000. Bean/Cowpea CRSP East Africa Regional Project website.
<http://EastAfricaCRSP.wsu.edu>