

List of publications by staff of the Genetic Resources Unit during the period 1986 to date. Any doubt, comment or request, please contact [CIAT Library \(ciat-library@cgiar.org\)](mailto:ciat-library@cgiar.org).

Publications In international refereed journals

Author(s)	Publication year	Title	Magazine, book or conference	Volume	Page(s)
Epperson, J.E.; Pachico, D.H.; Guevara, C.L.	1997	A cost analysis of maintaining cassava plant genetic resources.	Crop Sci.	37 (5)	1641-1649
Escobar, R.H.; Mafla, G.; Roca, W.M.	1997	A methodology for recovering cassava plants from shoot tips maintained in liquid nitrogen.	Plant Cell Reports	16	474-478
Acosta Gallegos, J.A.; Quintero C.; Vargas J.; Toro, O.	1998	A new variant of arcelin in wild common bean, <i>Phaseolus vulgaris</i> L., from southern Mexico.	Genet. Resources Evol.	45 (3)	235-242
Caicedo, A.L.; Gaitán, E.; Duque, M.C.; Toro Ch.,O.; Debouck, D.G.; Tohme, J.	1999	AFLP fingerprinting of <i>Phaseolus lunatus</i> L. and related wild species from South America.	Crop. Sci.	39 (5)	1497-1507
Schmit, V.; Debouck D.G.; Baudoin, J.P.	1996	Biogeographical and molecular observations on <i>Phaseolus glabellus</i> (Fabaceae, Phaseolinae) and its taxonomic status.	Taxon	45	493-501
Marin, M.L.; Mafla, G.; Roca, W.M.; Withers, L.A.	1990	Cryopreservation of cassava zygotic embryos and whole seeds in liquid nitrogen.	Cryo-letters	11	257-264
Chacón, M.I.; Pickersgill, B.; Debouck, D.G.	2005	Domestication patterns in common bean (<i>Phaseolus vulgaris</i> L.) and the origin of the Mesoamerican and Andean cultivated races.	Theor. Appl. Genet.	110 (3)	432-444
Freyre, R.; Ríos, R.; Guzmán, L.; Debouck, D.G.; Gepts, P.	1996	Ecogeographic distribution of <i>Phaseolus</i> spp. (Fabaceae) in Bolivia.	Econ. Bot.	50 (2)	195-215
Gutiérrez, A.; Gepts, P.; Debouck, D.G.	1995	Evidence for two gene pools of the lima bean, <i>Phaseolus lunatus</i> , in the Americas.	Genet. Resources Evol.	42 (1)	15-28

Debouck, D.G.; Toro, O.; Paredes, O.M.; Johnson, W.C.; Gepts, P.	1993	Genetic diversity and ecological distribution of <i>Phaseolus vulgaris</i> (Fabaceae) in northwestern South America.	Econ. Bot.	47 (4)	408-423
Schultze Kraft, R.; Belalcázar, J.	1988	Germplasm collection and preliminary evaluation of the pasture legume <i>Centrosema brasilianum</i> (L) Benth.	Tropical Agriculture (Trinidad)	65 (2)	37-144
Bayuelo Jiménez, J.S.; Debouck, D.G.; Lynch, J.P.	2003	Growth, gas exchange, water relations, and ion composition of <i>Phaseolus</i> species grown under saline conditions.	Field Crops Research	80	207-222
Kami, J.; Becerra Velásquez, V.; Debouck, D.G.; Gepts, P.	1995	Identification of presumed ancestral DNA sequences of phaseolin in <i>Phaseolus vulgaris</i> .	Proc. Natl. Acad. Sci. USA	92 (4)	1101-1104
Nolt, B.; Velasco, A.C.; Pineda, B.	1991	Improved purification procedure and some serological and physical properties of Cassava Common Mosaic Virus from South America.	Ann. Appl. Biol.	118	105-113
Roca, W.M.; Chaves, R.; Marín, M.L.; Arias, D.I.; Mafla, G.; Reyes, R.	1989	In vitro methods of germplasm conservation.	Genome	31 (2)	813-817
Maass, B.L.; Ocampo, C.H.	1995	Isozyme polymorphism provides fingerprints for germplasm of <i>Arachis glabrata</i> Benth.	Genet. Resources Evol.	42 (1)	77-82
Segura, S.D.; Coppens, G.; Ocampo, C.H.; Ollitrault, P.	2003	Isozyme variation in <i>Passiflora</i> subgenera <i>Tacsonia</i> and <i>Manicata</i> . Relationships between cultivated and wild species.	Genet. Resources Evol.	50 (4)	417-427
Segura, S.D.; Coppens, G.; Ocampo, C.H.; Ollitrault, P.	2005	Isozyme variation in <i>Passiflora</i> subgenus <i>Tacsonia</i> : geographic and interspecific differentiation among the three most common species.	Genet. Resources Evol.	52 (4)	455-463
Spaeth, S.C.; Debouck, D.G.; Tohme, J.; Van Beem, H.	1989	Microstructure of nuñas Andean popping beans (<i>Phaseolus vulgaris</i> L.).	Food Microstructure	8	263-269
Torres G., A.M.; Morton, C.M.	2005	Molecular and morphological phylogenetic analysis	Molec. Phylogenet. Evol.	37	36-44

		of Brachiaria and Urochloa (Poaceae).			
Fofana, B.; Baudoin, J.P.; Vekemans, X.; Debouck, D.G.; Jardin, P. du	1999	Molecular evidence for an Andean origin and a secondary gene pool for the Lima bean (<i>Phaseolus lunatus</i> L.) using chloroplast DNA.	Theor. Appl. Genet.	98	202-212
Maass, B.L.; Torres, A.M.; Ocampo, C.H.	1993	Morphological and isozyme characterisation of <i>Arachis pintoi</i> Krap. et Greg. nom. nud. germplasm.	Euphytica	70	43-52
Araya Villalobos, R.; González Ugalde, W.; Camacho Chacón, F.; Sánchez Trejos, P.; Debouck, D.G.	2001	Observations on the geographic distribution, ecology, and conservation status of several <i>Phaseolus</i> bean species in Costa Rica.	Genet. Resources Evol.	48 (3)	221-232
Schmit, V.; Debouck, D.G.	1991	Observations on the origin of <i>Phaseolus polyanthus</i> Greenman.	Econ. Bot.	45 (3)	345-364
Maass, B.L.; Torres, A.M.	1998	Off types indicate natural outcrossing in flue tropical forages legumes in Colombia.	Tropical Grasslands	32	124-130
Freytag, G.F.; Debouck, D.G.	1996	<i>Phaseolus costaricensis</i> , a new wild bean species (Phaseolinae, Leguminosae) from Costa Rica and Panama, Central America.	Novon	6 (2)	157-163
Salcedo, J.; Arroyave, J.A.; Toro Ch., O.; Debouck, D.G.	2006	<i>Phaseolus novoleonensis</i> , a new species (Leguminosae, Phaseolinae) from the Sierra Madre Oriental, Nuevo León, Mexico.	Novon	16 (1)	106-112
Singh, S.P.; Gepts, P.L.; Debouck, D.G.	1991	Races of common bean (<i>Phaseolus vulgaris</i> , Fabaceae).	Econ. Bot.	45 (3)	379-396
Fregene, M.; Ospina, J.A.; Roca, W.	1999	Recovery of cassava (<i>Manihot esculenta</i> Crantz) plants from culture of immature zygotic embryos.	Plant Cell Reports	55	39-43
Bayuelo Jiménez, J.S.; Debouck, D.G.; Lynch, J.P.	2002	Salinity tolerance in <i>Phaseolus</i> species during early vegetative growth.	Crop Science	42 (6)	2184-2192
Nolt, B.; Pineda, B.; Velasco, A.C.	1992	Surveys of cassava plantations in Colombia for virus and virus-like diseases.	Plant Pathology	41	348-354

Muñoz, L.C.; Duque, M.C.; Debouck, D.G.; Blair, M.W.	2006	Taxonomy of tepary bean and wild relatives as determined by amplified fragment length polymorphism (AFLP) markers.	Crop Science	46 (4)	1744-1754
Freytag, G.F.; Debouck, D.G.	2002	Taxonomy, distribution, and ecology of the genus <i>Phaseolus</i> (Leguminosae-Papilionoideae) in North America, Mexico and Central America.	SIDA Bot. Misc.	23	1-300
Epperson, J.E.; Pachico, D.H.; Guevara, C.L.	1996	The cost of maintaining genetic resources of cassava, <i>Manihot esculenta</i> Crantz.	Acta Horticulturae	429	409-413
Ocampo, C.H.; Martín, J.P.; Sánchez Yélamo, M.D.; Ortiz, J.M.; Toro, O.	2005	Tracing the origin of Spanish common bean (<i>Phaseolus vulgaris</i> L.) cultivars using biochemical and molecular markers. Genet.	Resources Evol.	52 (1)	33-40
Garrido, B.; Nodari, R.; Debouck, D.G.; Gepts, P.	1991	Uni-2 A dominant mutation affecting leaf development in <i>Phaseolus vulgaris</i> .	J. Hered.	82 (2)	181-183
Schmit, V.; Jardin, P. du; Baudoin, J.P.; Debouck, D.G.	1993	Use of chloroplast DNA polymorphisms for the phylogenetic study of seven <i>Phaseolus</i> taxa including <i>P. vulgaris</i> and <i>P. coccineus</i> .	Theor. Appl. Genet.	87 (4)	506-516
Tohme, J.; Toro, O.; Vargas, J.; Debouck, D.G.	1995	Variability studies in the Andean nuña common beans (<i>Phaseolus vulgaris</i> , Fabaceae).	Econ. Bot.	49 (1)	78-95
Ceballos, H.; Sánchez, T.; Chávez, A.L.; Iglesias, C.; Debouck, D.G.; Mafla, G.; Tohme, J.	2006	Variation in crude protein content in cassava (<i>Manihot esculenta</i> Crantz) roots.	J. Food Composition Anal.	19	589-593
Ishimoto, M.; Suzuki, K.; Iwanaga, M.; Kikuchi, F.; Kitamura, K.	1995	Variation of seed α -amylase inhibitor in the common bean.	Theor. Appl. Genet.	90	425-429
Beebe, S.; Toro Ch., O.; González, A.V.; Chácon, M.I.; Debouck, D.G.	1997	Wild-weed-crop complexes of common bean (<i>Phaseolus vulgaris</i> L., Fabaceae) in the Andes of Peru and Colombia, and their implications for conservation and breeding.	Genet. Resources Evol.	44 (1)	73-91

Publications In conference proceedings

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Author(s)	Publication year	Title	Magazine, book or conference	Volume	Page(s)
Triana, B.; Iwanaga, M.; Rubiano, H.; Andrade, M.	1994	A study of allogamy in wild <i>Phaseolus vulgaris</i> .	Roca, W.M., Mayer, M.A., Corrales, M.P., J. (eds.), <i>Phaseolus Bean Advanced Biotechnology Research Network (BARN). Proceedings of the Second International Scientific Meeting. CIAT, Cali, Colombia. 7-10 September 1993</i>		97-103.
Maass, B.L.; Torres G., A.M.	1993	A flower colour marker in the tropical forage legume <i>Centrosema brasilianum</i> (L.) Benth.	Proc. XVII International Grassland Congress. Vol. 3. New Zealand Grassland Association, Tropical Grasslands Society of Australia, New Zealand Society of Animal Production, Australian Society of Animal Production, Queensland Branch, and New Zealand Institute of Agricultural Science, Palmerston North, New Zealand		2149-2151
Balcázar,	2005	Actividad antagónica	Memoria XLV		89

M.S.; Rivera, A.L.; Pineda L., B.		de bacterias aisladas de semillas de Brachiaria y asociadas con hongos de Brachiaria.	Congreso anual de la Sociedad Americana de Fitopatología Division Caribe, VI Congreso nacional de Fitopatología y I Congreso Nacional de Fitoprotección. San José, Costa Rica, 7 Junio-1 de Julio de 2005	
Hidalgo, R.	1995	Algunos conceptos biológicos básicos para una mejor comprensión de la documentación de las colecciones de germoplasma.	"Memorias. Cursos de Documentación de Recursos Fitogenéticos", auspiciado por la Universidad Nacional de Colombia, IPGRI y CIAT. Palmira	1-3
Gutiérrez, J.P.; Toro, O.; Beebe, S.; Tohme, J.	1994	Analysis of the wild core collection with RAPD markers: Case of the Colombian wild P. vulgaris.	"Phaseolus Beans Advanced Biotechnology Research Network - BARN", Roca, W. M., Mayer, J. E., Pastor-Corrales, M. A. and Tohme, J. (eds.), Centro Internacional de Agricultura Tropical, Cali, Colombia	134-138
González Torres, R.I.; Gaitán, E.; Duque, M.C.; Toro, O.; Tohme, J.; Debouck, D.G.	2004	Analyzing gene flow in common bean using molecular markers.	Memorias II Congreso Colombiano de Biotecnología. Bogotá, Colombia	210-211
Balcázar, M.S.; Pineda L., B.	1993	Bacteria antagonica a Macrophomina phaseolina. (Tass) Gold. presente en semillas de frijol.	Memorias XIV Congreso ASCOLFI, Santa Marta, Agosto 25-27	104
Maass, B.L.; Torres, A.M.; Ocampo, C.H.	1992	Caracterización morfológica eisoenzimática de Arachis pintoi Krap. nom-nud.	Trabajo presentado de la Asociación Colombiana de Herbarios, Cartagena de Indias, Septiembre 5-11 de 1992	1-10
Pineda L., B.	2004	Características generales de los virus de plantas.	ASCOLFI Memorias del seminario Taller Diagnóstico de enfermedades causadas por virus y fitoplasmas. CIAT,	9-17

			Palmira, Agosto 9-10 de 2004	
Maass, B.L.; Schultze Kraft, R.	1993	Characterisation and preliminary evaluation of a large germplasm collection of the tropical forage legume <i>Stylosanthes scabra</i> Vog.	Proc. XVII International Grassland Congress. Vol. 3. New Zealand Grassland Association, Tropical Grasslands Society of Australia, New Zealand Society of Animal Production, Australian Society of Animal Production, Queensland Branch, and New Zealand Institute of Agricultural Science, Palmerston North, New Zealand	2151-2153
Muñoz, C.; Toro, O.; Lareo, L.; Tohme, J.; Beebe, S.; Ochoa, I.	1994	Characterization of the bean core collection. III. Phaseolin, phytohemagglutinin, and arcelin types in wild <i>Phaseolus vulgaris</i> L.	Phaseolus Beans Advanced Biotechnology Research Network - BARN. W.M. Roca, J.E. Mayer, M.A. Pastor-Corrales and J. Tohme (eds.), Cali, Colombia, Centro Internacional de Agricultura Tropical	417-423
Salcedo, J.M.; Debouck, D.G.	2004	Comparación de áreas en la region del estigma entre las formas silvestres y cultivadas (tradicionales y modernas) de <i>Phaseolus vulgaris</i> L.	III Congreso Colombiano de Botánica. Noviembre 2004, Popayán, Colombia	52
Hidalgo, R.	1995	Conservación Ex-Situ.	"Memorias. Curso de Documentación de Recursos Fitogenéticos". Auspiciado por Universidad Nacional de Colombia, IPGRI y CIAT. Palmira, Colombia	33-41
Mafla, G.	1994	Conservación de germoplasma In vitro.	"Memorias I Seminario Nacional sobre Biotecnología", King C., Osorio J. Salazar (eds.). Universidad del Tolima. Colombia	65-77

Velásquez, E.; Mafla, G.	1999	Conservación in vitro: Una alternativa segura para preservar especies silvestres de Manihot spp. (Euphorbiaceae).	II Congreso Nacional de Conservación de la Biodiversidad. Pontificia Universidad Javeriana, Bogotá 19-22 Octubre, 1999	14
Mafla, G.; Roca, W.M.; Kartha, K.	1987	Conservation of Cassava (Manihot esculenta Crantz) germplasm in vitro, IV: Evaluation of phenotypic stability of plants grown from cryo preserved shoot tip cultures.	abstracts of International Congress of plant tissue culture tropical species. Angarita, A. (ed.). Bogotá, Colombia	75
Marin, M.L.; Mafla, G.; Roca, W.M.; Withers, L.A.	1990	Conservation of cassava (Manihot esculenta Crantz): The role of cryopreservation.	Proceedings of the VIIth International Congress on plant tissue and cell culture, Amsterdam, The Netherlands, 24-29 June 1990	371
Escobar, R.; Mafla G.; Roca, W.M.	1993	Cryopreservation of cassava shoot tips.	Proceedings First Scientific Meeting of the Cassava Biotechnology Network, 25-28 Aug. 1992, Cartagena. Roca, W.M. and A.M. Thro (eds). CIAT, Cali, Colombia	116-121
Ocampo, C.H.; Angel, F.; Jiménez, A.; Jaramillo, G.; Hershey, C.; Granados, E.; Iglesias C.	1995	DNA fingerprinting to confirm possible genetic duplicates in cassava germplasm.	Roca, W. and Thro, A. M. (eds.). Proceedings of the Second International Scientific Meeting of the Cassava Biotechnology network. Bogor, Indonesia, 22-26 August 1994. Working Document No. 150. Centro Internacional de Agricultura Tropical (CIAT). Cali, Colombia	145-151
Balcázar, M.S.; Pineda, B.; Guzmán, M.L.	1999	Detección de Xanthomonas axonopodis pv. Phaseoli en Semilla de Fríjol mediante inmunofluorescencia.	Memorias XX Congreso Nacional de Fitopatología, ASCOLFI, Manizales, 30 Junio, 1 y 2 de Julio de 1999	1
Bravo, O. N.; Pineda, B.; Hidalgo, R	1994	Determinación de la patogenicidad del virus del mosaico	Memorias XV Congreso ASCOLFI, Santa	10

		común del frijol (BCMV) en extractos de semillas de <i>Phaseolus vulgaris</i> .	Fe de Bogotá, Agosto 31 - Septiembre 1, 1994	
Ocampo, C.H.; Gallego, G.; Duque, M.C.; Sánchez, I.; Rios Castaño, D.; Debouck, D.G.	2006	Diversidad genética de la colección colombiana de aguacate (<i>Persea americana</i> Mill.)	Memorias del Primer Congreso Colombiano de Horticultura, Universidad Jorge Tadeo Lozano, Aula Máxima. Bogotá, D.C., Colombia, 17-22 octubre 2006	78
Ospina, J. A.; Guevara, C. L.; Caicedo, L. E.; Barney, V.	1998	Effects of moisture content on <i>Passiflora</i> seed viability after immersion in liquid nitrogen.	Abstracts of Cryopreservation of Tropical Plant Germplasm. Joint International Workshop. JIRCAS/IPGRI, Tsukuba, Japan	15
Mafla G., Roa, J.C., Ocampo, C., Gallego, G., Jaramillo, G., D.G. Debouck	2004	Efficacy of silver nitrate for slow growth conservation of cassava (<i>Manihot esculenta</i> Crantz). Determination of viability and genetic stability.	Abstracts of the Sixth International Scientific Meeting of the Cassava Biotechnology Network. March 8-14 CIAT, Cali, Colombia	134
Roa, J.C.; Mafla, G.; Roca, W.M.; Pineda, B.; Nolt, B.L.	1987	Elimination of cassava (<i>Manihot esculenta</i> Crantz) viruses by thermotherapy and meristem tip culture.	'Abstracts of International Congress of plant tissue culture tropical species'. A. Angarita (ed.). Bogotá, Colombia	51
Pineda, B.; Balcazar, M del. S.	1997	Estatus de sanidad de semilla de frijol en análisis de laboratorio.	ASCOLFI Memorias XVIII Congreso, Palmira, Centro Internacional de Agricultura Tropical, Julio 30 Agosto 2 /97	60
Ocampo, C.H.; Hershey, C.; Iglesias, C.; Iwanaga, M.	1993	Esterase isozyme fingerprinting of the cassava germplasm collection held at CIAT.	Proceedings of the First International Scientific Meeting of the Cassava Biotechnology Network (CBN), Cartagena, Colombia, 25-28 August 1992, W.M. Roca and A.M. Thro (eds.). Cali, Colombia: CIAT (Working Document No. 123)	81-89
Perea, I.; Toro, O.; Andrade, M.; Ocampo, C.H.;	1996	Estudio de la Biodiversidad del Frijol Lima <i>Phaseolus lunatus</i> L. en Colombia.	Uribe, A., Cavellier, J., y Gomez A. M. (eds.). Memorias del Segundo	80

Debouck, D.G.			Simposio Nacional "Biodiversidad, Conservación y Manejo de los Ecosistemas de Montañas en Colombia." Medellín, Colombia, Junio 18-22 1996. Universidad de los Andes, Centro de Publicaciones. Santafé de Bogotá, Colombia		
Tofiño R., A.P.; Ocampo, C.H.; García, V.H.	2004	Estudio de la variabilidad genética en habichuela <i>Phaseolus vulgaris</i> L., mediante descriptores morfológicos y bioquímicos [resumen]	Ramírez P., Bernardo R.; Macías P., D.; Varona B., G. (eds.). Congreso Colombiano de Botánica (3, 2004, Popayán, Colombia). Libro de resúmenes: Botánica, diversidad y cultura. Universidad del Cauca; Grupos de Estudios sobre Diversidad Vegetal; Asociación Colombiana de Botánica, Popayán, CO		344-345
Toro, O.; Gutiérrez, J.P.; Beebe, S.; Lareo, L.; Debouck, D.G.; Tohme, J.	1994	Evidencia Morfológica y Molecular de Intercambio Genético entre Frijol Silvestre y Cultivado en los Andes de Colombia.	Cavelier, J. A. Uribe (eds). Resúmenes del Simposio Nacional "Diversidad Biológica, Conservación y Manejo de los Ecosistemas de Montaña en Colombia". Bogotá, Colombia, Junio 6-10, 1994. Universidad de los Andes		94
Ocampo, C.H.; Torres A.M.; Maass, B.L.	1999	Evidencia bioquímica de patrones geográficos y taxonómicos de variación en <i>Stylosanthes guianensis</i> (Aublet) Swartz	Memorias del Primer Congreso Colombiano de Botánica, Universidad nacional, Centro de Convenciones Alfonso López Pumarejo, Santafé de Bogotá D. C., Colombia, 26-30 abril		114
Debouck, D.G.	1994	Evolución en las especies cultivadas de frijol: la opinión	Proceedings of the 11th Latin American		29-65

		de un herético.	Congress of Genetics, Monterrey, Mexico, 25-30 September 1994	
Tohme, J.; James, P.; Beebe, S.; Iwanaga, M.; Toro, O.	1994	Forming a core collection of Phaseolus vulgaris L.	"Phaseolus Beans Advanced Biotechnology Research Network - BARN", Roca, W. M., Mayer, J. E., Pastor-Corrales, M. A. Tohme (eds.), Centro Internacional de Agricultura Tropical, Cali, Colombia	118-122
González Torres, R.I.; Araya Villalobos R.; Debouck, D.G.	2005	Gene flow and its effect on biodiversity: common bean as model for future considerations of biosafety.	Deutscher Tropentag 2005: The Global Food Chain-Dynamics, Innovations, Conflicts, Strategies. October 11 - 13, 2005, University of Hohenheim, Stuttgart, Germany	406
González Torres, R.I.; Toro, O.; Duque, M.C.; Araya R.; Debouck, D.G.	2006	Gene flow events among bean species of section Phaseoli in Colombia and Costa Rica using microsatellites markers.	LII PCCMCA scientific committee 2006 (Programa Cooperativo Centroamericano de Mejoramiento de Cultivos y Animales). April 24-28. Managua, Nicaragua	221
Pineda, B.	1996	Generalidades de la transmisión de patógenos por semillas.	Memorias curso de capacitación en patología de semillas ICA. Palmira, Noviembre 25-30 /96	6
Sarría, R.; Ocampo, C.H.; Ramírez, H.; Hershey, C.; Roca, W.M.	1993	Genetics of esterase and glutamate oxaloacetate transaminase isozymes in cassava.	Proceedings of the First International Scientific Meeting of the Cassava Biotechnology Network (CBN), Cartagena, Colombia 25-28 August 1992, W.M. Roca and A.M. Thro (eds.). Cali, Colombia: CIAT (Working Document No. 123)	75-80
Escobar, R.H.; Manrique,	2004	Implementation of the encapsulation-dehydration	Abstracts Sixth International Scientific Meeting	129

N.C.; Rios, A.; Mafla, G.; Debouck, D.G.; Tohme, J.		cryopreservation method for the cassava core collection.	of the Cassava Biotechnology Network. March 8-14, CIAT, Cali, Colombia		
Mafla, G.; Roca, W.M.; Reyes, R.; Roa, J.C.; Muñoz, L.; Baca, A.E.; Iwanaga, M.	1992	In vitro management of cassava germplasm at CIAT.	'Proceedings of first international scientific meeting of the cassava Biotechnology network'. Roca W.M. and Thro A.M. (eds.), Cartagena, Colombia		168-174
Mafla, G.	1995	Manejo de datos e información de la colección in vitro de yuca (Manihot esculenta, Crantz).	"Memorias. Curso en Documentación de Recursos Fitogenéticos". Auspiciado por Universidad Nacional de Colombia, IPGRI y CIAT. Palmira		97-118
Mafla, G.; Roa, J.C.; Roca, W.M.	1990	Micropropagación de la yuca para la producción de material de siembra libre de enfermedades.	' La nueva Biotecnología. Fundamentos, usos y perspectivas. ICA'. Jaramillo, J. y Agudelo, O. (eds.)		91-101
Pickersgill B.; Chacón, M.I.; Debouck, D.G.	2003	Multiple domestications and their taxonomic consequences: the example of Phaseolus vulgaris.	Knüpffer H. and J Ochsmann (eds.), "Rudolf Mansfeld and Plant Genetic Resources". Proceedings of a symposium dedicated to the 100th birthday of Rudolf Mansfeld, Gatersleben, Germany, 8-9 October 2001. Schriften Genet. Ressourcen 22		71-83
Debouck, D.G.; Araya Rodolfo, R.	2003	Observaciones sobre poblaciones de frijol silvestre (Phaseolus vulgaris L.) en Costa Rica.	Memorias VII Reunión Annual del Sector Frijolero de Costa Rica, Septiembre 2003, Santo Domingo, Heredia, Costa Rica		29-34
Araya Villalobos, R.; Debouck, D.G.	2003	Observaciones sobre poblaciones de frijol silvestre (Phaseolus vulgaris L.) en Costa Rica.	Programa de Investigación y Transferencia en Tecnología Agropecuaria. VII Reunión Annual, Santo Domingo, Heredia, Costa Rica. Ministerio de Agricultura y		29-34

			Ganadería de Costa Rica. San José, Costa Rica		
Maass, B.L.; Torres G., A.M.	1992	Outcrossing in the tropical forage legume <i>Centrosema brasilianum</i> (L.) Benth.	Abstracts of the XIII EUCARPIA Congress, 6-11 July 1992, Angers, France		465-466
Pineda, B.	1995	Patógenos transmitidos por semilla en frijol (<i>Phaseolus vulgaris</i> L.).	Memorias curso de capacitación en patología de semillas ICA. Palmira, Agosto 14-19/95		10
Maass, B.L.; Bojórquez, C.L.	1993	Performance of subterranean clover in the central Andes of Peru.	Proc. XVII International Grassland Congress. Vol. 1. New Zealand Grassland Association, Tropical Grasslands Society of Australia, New Zealand Society of Animal Production, Australian Society of Animal Production, Queensland Branch, and New Zealand Institute of Agricultural Science, Palmerston North, New Zealand		672-674
Schmit, V.; Muñoz, J.E.; Du Jardin, P.; Baudoin, J.P.; Debouck, D.G.	1994	Phylogenetic studies of some <i>Phaseolus</i> taxa on the basis of chloroplast DNA polymorphisms.	"Phaseolus Beans Advanced Biotechnology Research Network - BARN", Roca, W. M., Mayer, J. E., Pastor-Corrales, M. A. Tohme (eds.), Centro Internacional de Agricultura Tropical, Cali, Colombia		69-75
Chaves N.; Araya Villalobos, R.; Debouck, D.G.	2003	Polinización natural del frijol común en Costa Rica.	Programa de Investigación y Transferencia en Tecnología Agropecuaria. VII Reunión Anual, Santo Domingo, Heredia, Costa Rica. Ministerio de Agricultura y Ganadería de Costa Rica. San José, Costa Rica		35-40
Martin J.P.; Ortiz J.M.; Sánchez	2002	Relaciones morfológicas y moleculares entre	Actas de Horticultura No. 34 sobre el		623-629

Yélamo, M.D.; Ocampo, C.H.		variedades Españolas y accesiones silvestres de Phaseolus vulgaris L	Congreso Español de Mejora Genética de Plantas, Almería (España), 25-27 de Septiembre 2002		
Ospina, J.A.; Guevara, C.L.; Caicedo, L.E.; Cardozo, C.I.	1999	Rompimiento de latencia determinación de viabilidad con Tetrazolio en semillas de Passifloras.	Memorias VI Congreso Sociedad Colombiana de Fitomejoramiento y Producción de Cultivos. Villavicencio, Meta, 14-16 Julio, 1999		54
Debouck, D.G.; Liberos Ferla, D.	1993	Salsa picante, o una breve historia del ají (Capsicum) en Colombia.	Proceedings of the 5th Meeting on Promiseful Plant Resources, Universidad Nacional de Colombia, Palmira		1-18
Hidalgo, R.	1989	Status of the world collection of Phaseolus Beans. (Abstract). (Estado de la colección mundial de Phaseolus. (Resumen).	Beebe, S.ED. International Bean Breeding Workshop, Cali, Colombia, 1988. Current topics in breeding of common bean: Proceedings. Cali, Colombia, Centro Internacional de Agricultura Tropical. Working document No. 47		394-395
Claros, J.L.; Debouck, D.G.; Andrade, M.; Iwanaga, M.	1993	Studies of genetic diversity in wild Phaseolus vulgaris using phaseolin and isoenzymes.	Roca, W.M., Mayer, M.A., Corrales, M.P. Tohme (eds). Phaseolus Bean Advanced Biotechnology Research Network (BARN). Proceedings of the Second International Scientific Meeting. CIAT, Cali, Colombia. 7-10 September, 1993		123-127
Tohme, J.; Jones, P.; Beebe, S.; Iwanaga, M.	1994	The combined use of agroecological and characterization data to establish the CIAT Phaseolus vulgaris core collection.	T. Hodgkin, A.H.D. Brown, Th. J.L. Van Hintum A.V. Morales (eds.), Core collections of plant Genetic Resources, J. Wiley , Chichester, United Kingdom		95-107
Flor P.N.C.; Correa V. F.;	1999	Virulence's dynamics and genetic structure	XX Congreso de Fitopatología y		

Escobar, F.; Duque, M.C.; Flor, C.A.		of Pyricularia grisea Sacc. on Rice Oryza sativa L. in the time.	Ciencias Afines - ASCOLFI - Manizales, 30 Junio y 1-2 de Julio 1999		
Roca, W.M.; Szabados, L.; Mafía, G.; Roa, J.C.; B. Nolt	1987	Virus elimination and clonal propagation of cassava (Manihot esculenta Crantz).	"Abstracts of international congress of plant tissue culture tropical species". A. Angarita (ed.). Bogotá, Colombia		2

Publications In books (mostly refereed)

List of publications by staff of the Genetic Resources Unit during the period 1986 to date. Any doubt, comment or request, please contact [CIAT Library \(ciat-library@cgiar.org\)](mailto:CIAT_Library@cgiar.org).

Author(s)	Publication year	Title	Magazine, book or conference	Volume	Page(s)
Szabados, L.; Nuñez, L.M.; Tello, L.M.; Mafía, G.; Roa, J.C.; Roca, W.M.	1991	Agentes gelatinizadores en el cultivo de tejidos.	Roca, W.M. A. Mroginski (eds.), Cultivo de tejidos en la agricultura: Fundamentos y Aplicaciones, Centro Internacional de Agricultura Tropical, Cali, Colombia		79-93
Debouck, D.G.; Smartt, J.	1995	Beans Phaseolus spp. (Leguminosae Papilionatae).	"Evolution of Crop Plants (Second Edition)", Simmonds, N.W. and Smartt, J. (eds.), Longman, London, United Kingdom		287-294
Hidalgo, R.; Beebe, S.	1997	Beans.	"Biodiversity in Trust: Conservation and Use of Plant Genetic Resources in CGIAR Centres", D. Puccillo, L. Sears and P. Stapleton (eds.), Cambridge University Press, Cambridge, United Kingdom		141-158
Debouck, D.G.	2000	Biodiversity, ecology, and genetic resources of Phaseolus beans - Seven answered and unanswered	K. Oono (ed.), Wild legumes. 7th MAFF International Workshop on Genetic Resources, National Institute of Agrobiological Resources, Tsukuba,		95-123

		questions.	Japan		
Hidalgo, R.	1991	CIAT's world Phaseolus collection.	"Common beans: research for crop improvement", van Schoonhoven, A. and Voysest, O. (eds.), Commonwealth Agricultural Bureaux International, Wallingford, United Kingdom		163-197
Iwanaga, M.; Ayala, M.E.; Ocampo, C.H.; Hershey, C.	1993	Caracterización de la colección de Colombia del germoplasma de yuca (Manihot esculenta Crantz) por electroforesis PAGE utilizando la isoenzima β -esterasa.	"Recursos genéticos hortícolas", Clausen, A.M. (ed.), Instituto Nacional de Tecnología Agropecuaria, Balcarce, Argentina		244-258
Bonierbale, M.; Guevara, C.L.; Dixon, A.G.O.; Ng, N.Q.; R.; Ng, S.Y.O.	1997	Cassava. Chapter 1	"Biodiversity in trust: Conservation and Use of Plant Genetic Resources in CGIAR Centres", D. Fuccillo, L. Sears Stapleton (eds.), Cambridge University Press, Cambridge. United Kingdom		1-20
Hidalgo, R.; Rubiano, H.; Toro, O.	1992	Catálogo de germoplasma de frijol común, Phaseolus vulgaris L.	Centro Internacional de Agricultura Tropical, Cali, Colombia, Documento de Trabajo No. 114		
Hidalgo, R.	1991	Conservation Ex-Situ.	"Técnicas para el manejo y uso de Recursos Genéticos Vegetales". R. Castillo, J. Estrella Tapia (eds.). Departamento de Recursos Fitogenéticos-INIAP. Quito, Ecuador		71-87
Roca, W.M.; Mafla, G.; Segovia, R.J.	1991	Costo mínimo de un laboratorio de cultivo de tejidos vegetales.	Roca, W.M. A. Mroginski (eds.), Cultivo de tejidos en la agricultura: Fundamentos y Aplicaciones, Centro Internacional de Agricultura Tropical, Cali, Colombia		912-920
Debouck, D.G.	1999	Diversity in Phaseolus species in relation to the common bean.	S.P. Singh (ed.), Common bean improvement in the twenty-first century. Kluwer Academic Publishers, Dordrecht, The Netherlands		25-52
Debouck, D.G.; Engels, J.; Guarino, L.	2004	Domestication and development of plant cultivars.	Encyclopedia of Life Support Systems developed under the auspices of the		1-18

			UNESCO. V. Squires (ed.). EOLSS Publishers, http://www.eolss.net , Oxford, United Kingdom		
Roca, W.M.; Nolt, B.; Mafla, G.; Roa, J.C.; Reyes, R.	1991	Eliminación de virus y propagación de clones en la yuca (Manihot esculenta Crantz)	Roca, W.M. A. Mroginski (eds.), Cultivo de tejidos en la agricultura: Fundamentos y Aplicaciones, Centro Internacional de Agricultura Tropical, Cali, Colombia		403-421
Debouck, D.G.	1992	Frijoles, Phaseolus spp.	"Cultivos marginados: otra perspectiva de 1492.", Hernández Bermejo, E. and León, J. (eds.), Food and Agriculture Organization of the United Nations, Rome, Italy		45-60
Roca, W.M.; Angel, F.; Sarria, R.; Mafla, G.	1992	Future initiatives in biotechnology research for tropical agriculture: the case of cassava.	D.K. McCorwick (ed.), Advances in Gene Technology: Feeding the World in the 21st Century, 1992 Miami Bio/technology Winter Symposium, Miami, FL, USA		87
Debouck, D.G.	1991	Genetic variation in crop species and their wild relatives: a viewpoint for their conservation	"Genetic diversity, and crop strategies for roots and tubers", Becker, B. (ed.), Arbeitsgemeinschaft Tropische und Subtropische Agrarforschung e.V. and International Board for Plant Genetic Resources, Bonn, Germany		41-51
Debouck, D.G.; Tohme, J.	1989	Implications for bean breeders of studies on the origins of common beans, Phaseolus vulgaris L.	"Current topics in breeding of common bean", S. Beebe (ed.), Centro Internacional de Agricultura Tropical, Cali, Colombia		3-42
Debouck, D.G.	1993	Importancia del germoplasma surandino en la producción y la mejora de la chaucha.	"Recursos genéticos hortícolas", Clausen, A. M. (ed.), Instituto Nacional de Tecnología Agropecuaria, Mar del Plata, Argentina		149-163
Pineda L., B.; Huertas, C.A.; Iwanaga, M.; Morales, F.	1999	International Centre for Tropical Agriculture (CIAT).	Kahn, Robert P. B. Mathur (eds). Containment Facilities and Safeguards for Exotic Plant Pathogens and Pests. American Phytopathological Society, St. Paul, Minnesota, USA		23-32

Debouck, D.G.	1994	Introduction to the conservation of genetic resources of American tuber legumes (Pachyrhizus).	"Proceedings of the first international symposium on tuberous legumes", Sorensen, M. (ed.), DSR Tryk Publishers, Copenhagen, Denmark	5-17
Torres G., A.M.; Belalcázar, J.; Maass, B.L.; Schultze Kraft, R.	1993	Inventory of tropical forage species maintained at CIAT.	Working document No. 125. Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia	36
Bannerot, H.; Debouck, D.G.	1992	L'importance de la double domestication pour l'amélioration du haricot commun (Phaseolus vulgaris).	"Complexes d'espèces, flux de gènes et ressources génétiques des plantes", Mounolou, J.C. (ed.), Editions du CNRS, Paris, France	495-506
Keller Grein, G.; Maass, B.L.; Hanson, J.	1995	Natural variation in Brachiaria and existing germplasm collections. Chapter 2.	Miles, J.W., Maass, B.L., Dovalle, C.B. do Kumble (eds.). The Biology, Agronomy, and Improvement of Brachiaria. Centro Internacional de Agricultura Tropical (CIAT) and Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA), Cali, Colombia	16-42
Debouck, D.G.; Librerías F., D.	1995	Neotropical montane forests: a fragile home of genetic resources of wild relatives of New World crops.	"Biodiversity and conservation of Neotropical montane forests", Churchill, S.P., Baslev, H., Forero, E., and Luteyn, J.L. (eds.), New York Botanical Garden, New York, USA	561-577
Gepts, P.; Debouck, D.G.	1991	Origin, domestication, and evolution of the common bean (Phaseolus vulgaris L.).	"Common beans: research for crop improvement", van Schoonhoven, A. and Voysest, O. (eds.), Commonwealth Agricultural Bureaux International, Wallingford, United Kingdom	7-53
Debouck, D.G.	1988	Phaseolus germplasm exploration.	"Genetic resources of Phaseolus beans", P. Gepts (ed.), Kluwer Academic Publishers, Dordrecht, Holland	3-29
Hopkinson, J.M.; de Souza, F.H.D.; Diulgheroff, S.; Ortiz, A.;	1996	Reproductive physiology, seed production, and seed quality of Brachiaria.	Miles, J. W.; Maass, B. L., C. B. Dovalle and V. Kumble (eds.). The Biology, Agronomy, and Improvement of	124-140

Sánchez, M.			Brachiaria. Centro Internacional de Agricultura Tropical (CIAT) and Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA), Cali, Colombia		
Hodgkin, T.; Debouck, D.G.	1992	Some possible applications of molecular genetics in the conservation of wild species for crop improvement.	"Conservation of plant genes - DNA banking and in vitro biotechnology", Adams, R.P. and Adams, J.E. (eds.), Academic Press Inc., San Diego, California, USA		153-181
Debouck, D.G.	1991	Systematics and morphology.	"Common beans: research for crop improvement", A. van Schoonhoven Voysest (eds.), Commonwealth Agricultural Bureaux International, Wallingford, United Kingdom		55-118
Hidalgo, R.	1988	The Phaseolus World Collection.	"Genetic Resources of Phaseolus Beans" P. Gepts, (ed.), Kluwer Academic Publisher, Dordrecht, Holland		67-90
Tohme, J.; Jones, P.; Beebe, S.; Iwanaga, M.	1994	The combined use of agroecological and characterization data to establish the CIAT Phaseolus vulgaris core collection.	T. Hodgkin, A.H. Brown, J.J.L. van Hintum and E.A.V. Morales (eds.), Core Collections of Plant Genetic Resources. IBPGR. A Wiley-Sayce Publication		95-107
Toro, O.; Tohme, J.; Debouck, D.G.	1990	Wild bean (Phaseolus vulgaris L.): description and distribution.	Centro Internacional de Agricultura Tropical, Cali, Colombia		106

Publications In national journals (some refereed)

List of publications by staff of the Genetic Resources Unit during the period 1986 to date. Any doubt, comment or request, please contact **CIAT Library** (ciat-library@cgiar.org).

Author(s)	Publication year	Title	Magazine, book or conference	Volume	Page(s)
Debouck,	1996	Colombian common	Revista	1 (1)	7-15

D.G.		and Lima beans: views on their origin and evolutionary significance.	CORPOICA		
Velasco, A.C.; Nolt, B.; Pineda, B.	1990	Comparación de tres métodos de la técnica inmunoenzimática "Elisa" para el diagnóstico de virus del mosaico común de la yuca.	Fitopatología Colombiana	14 (1)	3-9
Balcazar, M. del S.; Pineda L., B.	2002	Diagnóstico preliminar de bacterias coryneformes asociadas a Germoplasma de Zornia spp.	Fitopatología Colombiana	26 (1)	27-31
Tofiño, A.; Gutiérrez, J.A.; Ocampo, C.H.; García, V.H.	2004	Estudio de la variabilidad genética en habichuela <i>Phaseolus vulgaris</i> L., mediante descriptores morfológicos y bioquímicos	Acta Agron. (Colombia)	53 (1/2)	25-36
Pineda L., B.; Rivera, A.L.; Balcazar, M. del S.	2002	Evaluación de fungicidas para el control de hongos en inflorescencias de <i>Brachiaria brizantha</i> (Panicoidea, Poaceae).	Fitopatología Colombiana	26 (1)	13-19
Huertas D., C.A.; Sarria V., G.; Pineda L., B	2002	Evidencias del mildew velloso <i>Peronosclerospora sorghi</i> (W. Weston) c. G. Shaw en cultivos de maíz y sorgo en Colombia.	Fitopatología Colombiana	26 (2)	55-60
Tofiño P.A.; Ocampo C.; Toro, O.; García, H.V.	2004	Introgresión mesoamericana en el germoplasma de habichuela (<i>Phaseolus vulgaris</i> L.) de centros secundarios de domesticación.	Fitotecnia Colombiana	4 (1)	66-79
Bálcazar, M. del S.; Rivera, A.L.; Pineda L., B.	2003	Observaciones preliminares sobre el efecto in vitro de bacterias antagonicas sobre el desarrollo de hongos aislados de semillas de <i>Brachiaria brizantha</i> .	Fitopatología Colombiana	27 (1)	33-36
Tofiño, A.; Ocampo, C.H.; Toro, O.	2003	Phenotypical and biochemical evidence regarding Mesoamerican introgression into the germplasm of kidney-beans (<i>Phaseolus vulgaris</i>) cultivated in secondary domestication centres	Agronomía Colombiana	21 (3)	154-164

González Torres, R.I.; Araya Villalobos, R.; Debouck, D.G.	2004	Wild common bean in the Central Valley of Costa Rica: ecological distribution and molecular characterization.	Agron. Mesoam.	15 (2)	145-153
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Publications In non refereed journals

List of publications by staff of the Genetic Resources Unit during the period 1986 to date. Any doubt, comment or request, please contact **CIAT Library (ciat-library@cgiar.org)**.

Author(s)	Publication year	Publication Title	Magazine, book or conference	Volume	Page(s)
Flores, C.P.; Ocampo, C.H.; Toro, O.	2003	A biochemical trait helps to recognize <i>Phaseolus parvifolius</i> Freytag in the genepool of tepary bean.	Annu. Rept. Bean Improvement Coop. (USA)	46	23-24
Triana, B.; Iwanaga, M.; Rubiano, H.; Andrade, M.	1993	A study of allogamy in wild <i>Phaseolus vulgaris</i> .	Annu. Rept. Bean Improvement Coop. (USA)	36	20-21
Toro, O.; Ocampo, C.H.	2004	Additional evidence about wild-weed-crop complexes of common bean in different parts of Colombia.	Annu. Rept. Bean Improvement Coop. (USA)	47	171-172
González Torres, R.I.; Gaitán, E.; Araya, R.; Toro, O.; Tohme, J.; Debouck, D.G.	2004	Additional evidence on gene flow events in <i>Phaseolus vulgaris</i> in Costa Rica.	Annu. Rept. Bean Improvement Coop. (USA)	47	167-168
Tofiño, A.; Ocampo, C.; Blair, M.	2007	Association Between Biochemical Descriptors and the Pod Fibrousness in the Characterization of Snapbean Germplasm for Latin American Fresh Consumption	Annu. Rept. Bean Improvement Coop. (USA)	50	63-64
Debouck, D.G.; Schmit, V.; Liberos Ferla, D.; Ramírez, H.	1990	Biochemical evidence for a fifth cultigen within the genus <i>Phaseolus</i> .	Annu. Rept. Bean Improvement Coop. (USA)	33	106-107
Debouck, D.G.; Maquet, A.; Posso, C.E.	1989	Biochemical evidence for two different gene pools in lima beans, <i>Phaseolus lunatus</i> L.	Annu. Rept. Bean Improvement Coop. (USA)	31	189-190
Ocampo, C.H.;	2004	Biochemical	Annu. Rept.	47	165-166

Toro, O.		evidence supporting the existence of a weedy form in tepary bean (<i>Phaseolus acutifolius</i> A. Gray).	Bean Improvement Coop. (USA)		
Debouck, D.G.	1994	Biodiversity of <i>Phaseolus</i> .	Grain Legumes (Paris)	5	20
Belalcázar, J.; Schultze Kraft, R.	1986	<i>Centrosema brasilianum</i> (L) Benth.: descripción de la especie y evaluación agronómica de siete ecotipos.	Pasturas Tropicales Boletín	8 (3)	14-19
Debouck, D.G.; Araya Villalobos, R.; Ocampo Sánchez, R.A.; González Ugalde, W.G.	1989	Collecting <i>Phaseolus</i> in Costa Rica.	FAO/IBPGR Plant Genet. Resources Newsl.	78/79	44-46
Vargas, J.; Tohme, J.; Debouck, D.G.	1990	Common bean domestication in the southern Andes.	Annu. Rept. Bean Improvement Coop. (USA)	33	104-105
Salcedo, J.M.; Debouck, D.G.	2005	Comparison of stigma areas among wild and cultivated forms (landrace and modern cultivars) of <i>Phaseolus vulgaris</i> L.	Annu. Rept. Bean Improvement Coop. (USA)	48	34-35
Tofiño, A.; Ocampo, C.H.; Toro, O.	2004	Determination of genetic diversity of snap beans <i>Phaseolus vulgaris</i> L. cultivated at secondary centers of domestication, using morphological and biochemical descriptors.	Annu. Rept. Bean Improvement Coop. (USA)	47	169-170
Schmit, V.; Jardin, P. du.; Baudoin, J.P.; Debouck, D.G.	1992	Diversity studies of some <i>Phaseolus</i> taxa using chloroplast DNA as a molecular marker.	Annu. Rept. Bean Improvement Coop. (USA)	35	213-214
Debouck, D.G.	1989	Early beans (<i>Phaseolus vulgaris</i> L. and <i>P. lunatus</i> L.) domesticated for their aesthetic value?	Annu. Rept. Bean Improvement Coop. (USA)	32	62-63
González Torres, R.I.; Carvajal, M.; Toro, O.; Duque, M.C.; Araya, R.; Debouck, D.G.	2006	Evidence of gene flow among bean species of section <i>Phaseoli</i> in Colombia and Costa Rica using microsatellite markers.	Annu. Rept. Bean Improvement Coop. (USA)	49	135-136
Maquet, A.; Gutiérrez, A.; Debouck, D.G.	1990	Further biochemical evidence for the existence of two gene pools in lima beans.	Annu. Rept. Bean Improvement Coop. (USA)	33	128-129




Chacón S., M.I.; González, A.V.; Gutiérrez, J.P.; Beebe, S.; Debouck, D.G.	1996	Increased evidence for common bean (<i>Phaseolus vulgaris</i> L.) domestication in Colombia.	Annu. Rept. Bean Improvement Coop. (USA)	39	201-202
Chacón Sánchez, M.I.; Pickersgill, B.; Debouck, D.G.	1999	Intraspecific chloroplast DNA diversity in common bean (<i>Phaseolus vulgaris</i>) for domestication studies.	Annu. Rept. Bean Improvement Coop. (USA)	42	79-80
Bravo, N.; Pineda, B.; Hidalgo, R.	1996	La prueba ELISA en semillas de frijol y su relación con la bioactividad del virus del mosaico común del frijol (BCMV).	Fitopatología Colombiana	20 (2)	37-43
González, R.I.; Gaitán, E.; Duque, M.C.; Toro, O.; Ocampo, C.H.; Tohme, J.; Debouck, D.G.	2003	Monitoring gene flow between wild relatives and landraces of common bean in Costa Rica.	Annu. Rept. Bean Improvement Coop. (USA)	46	1-2
Hershey, C.; Ocampo, C.H.	1989	New marker genes found in cassava.	Cassava Newsl.	13 (1)	1-5
Ocampo, C.H.; Toro, O.	2005	New sources of phaseolin variation found in populations of <i>Phaseolus vulgaris</i> L. collected in its primary center of diversity.	Annu. Rept. Bean Improvement Coop. (USA)	48	22-23
Guzmán, F.A.; Toro, O.; Ocampo, C.; Sánchez, I.; Cárdenas, H.; Debouck, D.G.	2001	Observation about risks of genetic erosion and drift during multiplication and regeneration of germplasm, using wild common bean as model	Annu. Rept. Bean Improvement Coop. (USA)	44	29-30
Toro, O.; Lareo, L.; Debouck, D.G.	1993	Observations on a noteworthy wild lima bean, <i>Phaseolus lunatus</i> L. from Colombia.	Annu. Rept. Bean Improvement Coop. (USA)	36	53-54
Debouck, D.G.; Castillo, R.; Tohme, J.	1989	Observations on little known <i>Phaseolus</i> germplasm of Ecuador.	FAO/IBPGR Plant Genet. Resources Newsl.	80	15-21
Toro, O.; Debouck, D.G.	1995	Observations on popping ability in cultivated and wild forms of common bean, <i>Phaseolus vulgaris</i> L.	Annu. Rept. Bean Improvement Coop. (USA)	38	95-96
Debouck, D.G.; Liñan Jara, J.H.; Campana Sierra, A.; De la Cruz Rojas, J.H.	1987	Observations on the domestication of <i>Phaseolus lunatus</i> L.	FAO/IBPGR Plant Genetic Resources Newsl.	70	26-32













Acosta Gallegos, J.; Gepts, P.; Debouck, D.G.	1994	Observations on wild and weedy forms of common beans in Oaxaca, Mexico.	Annu. Rept. Bean Improvement Coop. (USA)	37	137-138
Toro Ch., O.; Ocampo, C.H.; Debouck, D.G.	2007	Phaseolin: variability and reference materials in wild and cultivated common bean	Annu. Rept. Bean Improvement Coop. (USA)	50	69-70
Schmit, V.; Debouck, D.G.	1990	Phaseolus glabellus Piper, a noteworthy variant of the P. coccineus complex?	Annu. Rept. Bean Improvement Coop. (USA)	33	124-125
Debouck, D.G.	2004	Phylogeographic migrations of Phaseolus beans in the New World, and consequences for taxonomy, conservation and breeding.	Annu. Rept. Bean Improvement Coop. (USA)	47	29-30
Iwanaga, M.; Maass, B.L.; Hidalgo, R.	1991	Plant genetic resources: the key to CIAT's mission to help national agricultural systems.	Diversity	7 (1-2)	12-14
Tofiño, A.; Ocampo, C.H.	2003	Possible contribution of Mesoamerican phenotype in snap beans cultivated in secondary centres.	Annu. Rept. Bean Improvement Coop. (USA)	46	127-128
Ocampo, C.H.; Martín, J.P.; Ortiz, J.M.; Sánchez Yélamo, M.D.; Toro, O.; Debouck, D.G.	2002	Possible origins of common bean (Phaseolus vulgaris L.) cultivated in Spain in relation to the wild genetic pools of the Americas	Annu. Rept. Bean Improvement Coop. (USA)	45	236-237
Debouck, D.G.; Gamarra Flores, M.; Ortiz Arriola, V.; Tohme, J.	1989	Presence of a wild-weed-crop complex in Phaseolus vulgaris L. in Peru?	Annu. Rept. Bean Improvement Coop. (USA)	32	64-65
Debouck, D.G.	1986	Primary diversification of Phaseolus in America: three centers?	FAO/IBPGR Plant Genet. Resources Newsl.	67	2-8
Debouck, D.G.; Soto, J.J.	1988	Recolección de germoplasma de Phaseolus (frijol) en el Occidente de Guatemala.	Tikalía	6 (1)	17-34
Singh S.P.; Debouck D.G.; Roca, W.M.	1997	Successful interspecific hybridization between Phaseolus vulgaris L. and P. costaricensis Freytag	Annu. Rept. Bean Improvement Coop. (USA)	40	40-41
Iwanaga, M.; Hidalgo, R.	1992	The Phaseolus collection at CIAT.	Annu. Rept. Bean	35	11-12

			Improvement Coop. (USA)		
Ocampo, C.H.; Toro, O.	2005	Two novel globulin variants found in the wild teparies beans (<i>Phaseolus acutifolius</i> A. Gray).	Annu. Rept. Bean Improvement Coop. (USA)	48	30-31
Debouck, D.G.	1991	Una visión diferente sobre la exploración de germoplasma: el caso de los frijoles (<i>Phaseolus</i>).	Diversity	7 (1-2)	54-55
Singh, S.P.; Debouck, D.G.; Urrea, C.A.	1990	Variation for bracteoles and its association with races of common bean.	Annu. Rept. Bean Improvement Coop. (USA)	33	112
Debouck, D.G.	1992	Views on variability in <i>Phaseolus</i> beans.	Annu. Rept. Bean Improvement Coop. (USA)	35	9-10
Debouck, D.G.	1990	Wild beans as a food resource in the Andes.	Annu. Rept. Bean Improvement Coop. (USA)	33	102-103
Guevara, C.; Ospina, J.A.; Mafla, G.; Verdier, V.	1998	Zygotic embryo culture of <i>Manihot esculenta</i> Crantz: a practical approach for the safe international movement of cassava seed stocks.	FAO/IPGRI Plant Genet. Resources Newsl.	115	33-38

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	Document	Cahiers de Phaséologie - section Acutifolii	Debouck, D.G.	01-07-2007	16-08-2007	16-08-2007
	Document	Cahiers de Phaséologie - section Chiapasana	Debouck, D.G.	01-01-1978	08-10-2007	08-10-2007
	Document	Cahiers de Phaséologie - section Coriacei	Debouck, D.G.	30-05-2007	03-06-2007	03-06-2007

	Document	Cahiers de Phaséologie - section Minkelersia	Debouck, D.G.	19-06-2007		20-06-2007
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	Document	Cahiers de Phaséologie - section Rugosi	Debouck, D.G.	04-05-2007		04-05-2007
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	Document	Cahiers de Phaséologie - synonymie	Debouck, D.G.	12-07-2007		08-08-2007
	Document	Hacia un Mejor Conocimiento del Acervo Genético de los Acutifolii	Muñoz, C.; Blair, M.W.; Debouck, D.G.	15-09-2006		25-09-2006
	Document	Procedures used by the Germplasm Health Laboratory (GHL) of CIAT	Cuervo, M.; Balcazar, M.S.; Ramirez, J.L.	17-08-2007		17-08-2007
	Document	Un Nuevo Frijol en los Coriacei desde los Bosques de Nuevo León	Salcedo, J.; Toro, O.; Debouck, D.G.	02-02-2006	06-04-2006	12-06-2006
	Illustration	Diagrama de Flujo de Operaciones en cuanto a los Germoplasmas de Frijol y de Forrajes Tropicales	Salcedo, J.; Debouck, D.G.; Torres, A.M.; Guevara, C.	20-10-2005		12-06-2006
	Illustration	Diagrama de Flujo de Operaciones en cuanto al Germoplasma de Yuca	Mafla, G.	29-03-2000		12-06-2006
	Illustration	Flow Chart of Operations for Bean and Tropical Forage Germplasms	Salcedo, J.; Debouck, D.G.; Torres, A.M.; Guevara, C.	20-10-2005		12-06-2006
	Illustration	Flow Chart of Operations for Cassava Germplasm	Mafla, G.	29-03-2000		12-06-2006

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	A key resource for the improvement of animal productions worldwide: forty thousand options from the in-trust forage collections of CIAT and ILRI	Hanson, J.; Lima, C.; Peters, M.; Debouck, D.G.	11-06-2007	28-08-2007
	The common bean has been part of the Great American Biotic Interchange: evidence from the study of cpDNA and implications for conservation and breeding	Chacón, M.I.; Pickersgill, B.; Debouck, D.G.; Arias, J.S.	19-05-2007	28-08-2007
	Determination of gene flow events in natural "wild-weedy-cultivated" complexes in gene pools of <i>Phaseolus lunatus</i> L.	Suárez Barón, H.; Martínez Garay, C.; González Torres, R.I.; Duque, M.C.; Debouck, D.G.; Tohme, J.	19-05-2007	05-10-2007
	Diversidad genética de la colección colombiana de aguacate, <i>Persea americana</i> Mill	Ocampo, C.H.; Gallego, G.; Duque, M.C.; Sánchez, I.; Ríos Castaño, D.; Debouck, D.G.	17-10-2006	28-08-2007
	When gene flow counteracts domestication: the case of common bean (<i>Phaseolus vulgaris</i> L.)	Chacón, M.I.; González, R.I.; Debouck, D.G.	01-08-2006	28-08-2007
	Distribution of cassava germplasm from an international genebank: a service to the global agriculture	Mafla, G.; Roa, J.C.; Flor, N.C.; Aranzales, E.; Debouck, D.G.	12-06-2006	28-08-2007
	Distribution of bean and tropical forage germplasm from an international genebank: a service to the global agriculture	Torres, A.M.; Ciprián, A.; Toro, O.; Debouck, D.G.	12-06-2006	28-08-2007
	Gene flow events among bean species of section <i>Phaseoli</i> in Colombia and Costa Rica using microsatellites markers	González Torres, R.I.; Toro, O.; Duque, M.C.; Araya, R.; Debouck, D.G.	23-04-2006	28-08-2007
	Development of in vitro conservation protocols in palms, using <i>Bactris gasipaes</i> Kunth (¿chontaduro¿) as a model	Aranzales, E.; Mafla, G.; Escobar, R.H.; Debouck, D.G.	23-11-2005	28-08-2007
	Presencia de complejos "Silvestre-maleza-cultivo" de <i>P. vulgaris</i> L. en Costa Rica y Bolivia utilizando marcadores moleculares de AND nuclear y cloroplástico	González, R.I.; Toro, O.; Carvajal, M.; Debouck, D.G.	23-11-2005	05-10-2007
	Gene flow and its effect on agrobiodiversity: Common bean as a model for future considerations in biosafety	González Torres, R.I.; Villalobos, A.; Debouck, D.G.	11-10-2005	28-08-2007
	Comparación de áreas estigmáticas florales entre formas silvestres y cultivadas (tradicionales y modernas) de <i>Phaseolus vulgaris</i> L.	Salcedo, J.M.; Debouck, D.G.	07-11-2004	08-10-2007
	Medición del flujo de genes en	González Torres, R.I.;	01-09-2004	05-10-2007

frijol común mediante marcadores moleculares	Gaitán, E.; Duque, M.C.; Toro, O.; Tohme, J.; Debouck, D.G.		
Estimation of gene flow on <i>Phaseolus vulgaris</i> L. using molecular markers: microsatellites and polymorphisms of chloroplast DNA	González Torres, R.I.; Gaitán, E.; Duque, M.C.; Toro, O.; Debouck, D.G.; Tohme, J.	21-06-2004	05-10-2007
Efficacy of silver nitrate for slow-growth conservation of cassava (<i>Manihot esculenta</i> Crantz). Determination of viability and genetic stability	Mafla, G.; Roa, J.C.; Ocampo, C. H.; Gallego, G.; Jaramillo, G.; Debouck, D.G.	08-03-2004	08-10-2007
Efecto del ancymidol y el nitrato de plata sobre el crecimiento de lulo (<i>Solanum quitoense</i> Lam.) y tomate de árbol (<i>Solanum betaceum</i> Sendt.) conservados in vitro	Mafla, G.; Roa, J.C.; Debouck, D.G.	13-10-2002	08-10-2007
Conservación in vitro y utilización del germoplasma del género <i>Manihot</i>	Mafla, G.; Roa, J.C.; Flor, N.C.; Debouck, D.G.	13-10-2002	08-10-2007
Observations about the distribution of cassava germplasm from an international collection	Mafla, G.; Roa, J.C.; Debouck, D.G.	04-11-2001	28-08-2007