

Curriculum Vitae

Muhammad Akbar Ibrahim

Nationality	Guyanese
Date of Birth	20th June, 1958
Home Address	Apartment 4, Condominium Sunset, Los Guayabos, San Jose, Costa Rica
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Email address	mibrahim20@gmail.com
Field of Specialisation	Livestock and Environment
Major Professional Achievements	<ul style="list-style-type: none"> • Recognised as a leader for innovation and development of sustainable and climate smart livestock systems by stakeholders in Latin America • Created the livestock and environmental management program of CATIE that has had significant impacts in transition of traditional systems to environmentally friendly and competitive livestock systems in Latin America • Implemented a strategy for strengthening agriculture innovation systems in Latin America and the Caribbean including the strengthening of regional networks • Developed methodologies and technologies on silvopastoral, and sustainable livestock systems that have been adopted by livestock farmers and contributed to improvements of their livelihoods • Contributed to the development of regional and national policies for sustainable livestock systems • Negotiated more than 25 million dollars (USD) for funding of projects which have generated significant results on sustainable livestock systems and contributed to institutional strengthening and the design and implementation of public policies in the region • Strengthened cattle farmers organisations and related NGOs and relevant organisations that are playing a pivotal role in innovation of livestock systems • As a major professor, graduated more than 75 MSc. students and 5 PhD students • Numerous scientific publications in international and regional Journals • Contributed to the insertion of CATIE and IICA in the Global agenda for Livestock: from vision to Action • Organised five Latin American congress on Agroforestry and silvopastoral systems

Education	Years attended		Name of University	Degree obtained
	From	To		
	1990	1994	Wageningen Agricultural University, The Netherlands	Doctor of Agricultural and Environmental Sciences (Ph.D.)
	1987	1989	CATIE, Costa Rica	MSc. Agricultural sciences and natural resources, with emphasis in animal nutrition
	1981	1985	University of Guyana, Guyana	Bachelor of Science in Agriculture- pass with distinction
Employment record	From	To	Employee	Title of Post
	May 2014	Present	IICA	Manager of the Innovation for Productivity and Competitiveness Program and Associate Director for IICA's Technical Cooperation Program

Responsibilities

- Manager of the Technical Program ‘Innovation for Productivity and Competitiveness’ of IICA
- Leader of the flagship project ‘Resilient Agriculture and Environmental Risk Management’
- Develop and implement a strategy for innovation in the agriculture sector at a national and regional scales
- Coordination of actions related to IICA’s cooperate programs (PROCITROPICOS, PROSICUR, PROMECAFE, Technical Groups of CAC, PROCINORTE, CIAO) on Agricultural Innovation Systems in Latin America and the Caribbean region
- Preparation of proposals within the framework of the Medium term plan, for external funding
- Supervise and provide technical support for the implementation of projects with external funding
- Collaborate in the development of national and regional polices for innovation in the agriculture sector
- Negotiation of funding for external projects

	From	To	Employee	Title of Post
	Nov 2012	April 2014	IICA	Representative of IICA in Belize
Responsibilities				
				<ul style="list-style-type: none"> • Develop and implement IICA's country strategy in Belize • Participate in the development of an agricultural policy and strategy and business plan for Belize • Provide technical cooperation to the Government of Belize in the areas of agriculture, environment and natural resources, and rural development • Negotiate and implement a EU project (3.5 million EU) to strengthen the Sugar industry research and development Institute (SIRDI) • Prepare a medium term plan for the Sugar Industry Research and Development Institute • Provide technical support for strengthening the Agricultural Faculty of the University of Belize • Develop collaboration with international, regional and national organisations
	From	To	Employee	Title of Post
	May 2002	October 2012	CATIE	Leader of GAMMA (Livestock and Environmental Management Program)
Responsibilities				
				<ul style="list-style-type: none"> • Creation of CATIE's Livestock and Environmental Management Program (GAMMA) • Develop and implement a regional strategy for CATIE's Livestock and Environmental Management Program • Coordinate with staff of GAMMA and related programs of CATIE, to develop and implement a research strategy, involving systemic approaches and /or methodologies for sustainable and climate smart livestock systems • Coordinate with staff of GAMMA in the development of a business plan for sustainability of the program • Develop a methodology for payment of environmental services in Livestock systems in Latin America • Establish cooperation with international (e.g., CIRAD, NINA, ILIR, CIAT, EMBRAPA, FAO, ICRAF) and regional organizations (e.g., CIPAV, NITLAPAN, CORPOICA, INIAs) to conduct research in the field of livestock and environment • Establish cooperation with donors (e.g. GEF, Worldbank, EU, Nestle, Netherlands, Norway cooperation, IDB-FONTAGRO,

	<p>European Union) to negotiate funding for research and development projects</p> <ul style="list-style-type: none"> • Develop and implement regional projects on livestock and environment and recovery of degraded pasturelands • Conduct research in the field of livestock and environment and silvopastoral systems • Position CATIE as the focal point for Latin America within the livestock and environment initiative and the Global agenda for Livestock: from vision to action- coordinated by FAO/ILRI, and as a focal point with GEF and Worldbank • Negotiation of MSc and PhD scholarships for CATIE's students involved in studies related to livestock and environment • Taught a course on Silvopastoral systems at the postgraduate school of CATIE • Supervision (major supervisor and committee member) of MSc and PhD students of CATIE • Develop and implement training program in the area of livestock and environment • Provide technical support for the development of regional and national policies for sustainable livestock systems • President of the organising committee and scientific director for the Latin American congress on agroforestry and silvopastoral systems (every 2 years) • Supervision of activities of GAMMA staff 								
	<table border="1"> <thead> <tr> <th>From</th><th>To</th><th>Employee</th><th>Title of Post</th></tr> </thead> <tbody> <tr> <td>April 1995</td><td>April 2002</td><td>CATIE</td><td>Leader of Silvopastoral Unit, Department of Agroforestry</td></tr> </tbody> </table>	From	To	Employee	Title of Post	April 1995	April 2002	CATIE	Leader of Silvopastoral Unit, Department of Agroforestry
From	To	Employee	Title of Post						
April 1995	April 2002	CATIE	Leader of Silvopastoral Unit, Department of Agroforestry						
<p>Responsibilities</p> <ul style="list-style-type: none"> • Develop work plan for the silvopastoral unit of CATIE • Conduct research to evaluate interactions in silvopastoral systems • Establish cooperation with international and regional organizations to conduct research on silvopastoral systems • Taught a course on silvopastoral systems • Negotiate scholarships for CATIE's students • Supervision of MSc students of CATIE • Negotiation of funding for externally funded project • Implementation of externally funded projects • Organization of international symposium on silvopastoral systems • Develop networks for scaling out/up of silvopastoral systems for example LEAD-FAO, national networks on silvopastoral systems 									

	From	To	Employee	Title
	September 1985	August 1987	NDDP-Guyana	Senior Dairy Officer
Responsibilities				
<ul style="list-style-type: none"> • Provision of technical assistance to farmers and organizations to establish improved dairy systems • Organisation of farmers to manage communal pasture plots • Training of local experts on improved dairy models • Develop national plan for dairy development in Guyana 				
Research experience	<p>Managed a multi-disciplinary research team at CATIE to develop improved silvopastoral systems using systemic and participatory approaches and methodologies.</p> <p>Research was conducted to understand tree-pasture-animal interactions and used to design improved silvopastoral systems including the selection of improved forage species that are tolerant to shade. This research area included the development of a methodology for recovery of degraded pasturelands in Central America. Research was also conducted on the quantification of ecosystem services in traditional and sustainable livestock systems, and an innovative methodology was developed for payment of environmental services generated with silvopastoral systems, including a certification scheme for sustainable cattle systems which was developed with Rainforest alliance. It should be mentioned that the results from the research conducted at CATIE is used to implement policies for sustainable intensification of livestock systems including countries such as Costa Rica, Nicaragua, Honduras, Colombia, Ecuador and Brazil.</p>			
Managerial and Leadership skills	<p>Currently, involved in the management of IICA's technical cooperation program which includes development of strategic and annual work plans to achieve the objectives of IICA. The work involves the supervision of technical staff of IICA at headquarters and in the 34 offices of the institute.</p> <p>One of the major achievements in this position at IICA has been in the coordination with the national research organizations and actors in the private sector to modernize the regional networks (PROCIS, PROCINORTE, PROMECAFE, PROCISUR, CIAO) to have greater impacts in the agriculture innovation systems in Latin America and the Caribbean countries. In this work managerial skills are also applied in the negotiation of externally funded projects and in implementing of a system to evaluate the effectiveness and efficiency in the generation of deliverables.</p>			

	<p>Managerial and leadership skills were also demonstrated during my seventeen years working at CATIE. A livestock and environment program (GAMMA) was created and consolidated with a multi-disciplinary team with gender participation, which gained recognition in Latin America and with international organizations for its work carried out on innovative livestock systems, training, and in development of policies for sustainable livestock systems.</p> <p>This was achieved through the establishment of effective and functional institutional collaboration at a national (Ministries, NARS, Farmers organizations), regional (CIPAV, NITLAPAN) and international (ILRI, ICRAF, CIRAD, CIAT, NINA, NESTLE) scales. Alliances were forged between private (e.g., FEDEGAN, CORFORGA, Rainforest Alliance) and with public organizations to implement policies for sustainable livestock systems.</p> <p>A strategic and research plan was developed for the program which emphasized the need for sound financial management and resource mobilization for long term sustainability of the program, and through the implementation of this plan four regional medium-size (4-5 million USD) and numerous small projects were negotiated to consolidate financing for the program. Furthermore, the effectiveness of good planning and resource mobilization was demonstrated through:</p> <ul style="list-style-type: none"> 1) Significant number of MSc and PhD students graduated in the framework of the program 2) Large number of extension workers trained and institutions and organizations strengthened 3) Number of publications in international and regional journals and in book chapters 4) Policies promoted in the region 5) Impacts on smallholder cattle systems 6) The organization of four international congresses on agroforestry and silvopastoral systems
Grants/fund raising and scholarships	Good experience in the mobilization of resources or grants for funding projects on sustainable agriculture and livestock systems. Experience working with different donor organizations including- GEF, World Bank, NORAD, EU, New Zealand technical cooperation, IDRC, SDC, Netherlands cooperation. A list of some of the major grants in which I participated to negotiate and implement is provided below:

- Coordinate the preparation of a proposal “Central America Coffee Program for Integrated Management of Coffee Rust”. Funded by the EU. Funds already earmarked for this project. Partners- IICA, CATIE, CIRAD, PROMECAFE (IICA). USD 20 million (2014-2019)
- “Delivering multiple global environmental benefits through sustainable management of production landscapes- Honduras”, funded by GEF. USD 3 million (2014-2018)
- “Policymix: assessing the role economic instruments in Policy mixes for biodiversity conservation and ecosystem services provision”. Funded by EU. € 0.7 million (2010-2014)
- “Sustainable Management of Agricultural Territories in Mesoamerica”. Funded Norway 4.5 million USD (2009-2013)
- Climate Change and Biodiversity Loss: “The Effects on Ecosystem Services in Tropical Forests in Central America” Carried out jointly by the Basque Centre for Climate Change (BC3) and the Tropical Agricultural Research and Higher Education Centre of Costa Rica (CATIE). Funded by BBVA. USD 500.000 (2009-2011)
- Integrated Silvopastoral Approaches to Ecosystem Management (GEF/World Bank LEAD/FAO). Regional Coordinator of this project which was implemented in Colombia, Nicaragua and Costa Rica Financing: USD 4.5 million GEF, USD 500,000 from FAO/LEAD co-funding USD 5 million). (2002 -2008)
- Multi-stakeholder participatory development of sustainable land use alternatives for degraded pasture lands in Central America. This project was implemented in Honduras, Nicaragua and Guatemala is financed by Norwegian international cooperation USD 6 million. (2002 – 2008).
- Carbon sequestration in pasture and silvopastoral systems in the Tropics. Funded by Netherlands Cooperation. USD 2 million. (2004- 2009)
- WAFLA/ Integrated management of water resources in semi/arid zone. Project was implemented with European and Latin American partners and with a network of 20 institutions. € 2.3 million. (2005-2010)

	<ul style="list-style-type: none"> Competitiveness and added value of farm products produced in coffee and silvopastoral systems). Research project implemented in Costa Rica, Nicaragua and Colombia. Funded by FONTAGRO/IDB. USD 500.000 million. (2005-2009) Fragment: Impacts of tree cover on productivity and biodiversity in agricultural landscapes dominated with cattle. Funded by EU. € 1 million. (2002-2008) Livestock and Environment Initiative (LEAD) funded by FAO. USD 600,000. (2000-2007)
Funding for scholarships	Negotiated more than 60 scholarships for MSc students and eight scholarships to fund PhD students at CATIE
Teaching experience	<ul style="list-style-type: none"> 18 years' experience as a Research professor at the postgraduate school of CATIE Participated in the review of the postgraduate program Taught courses on forages and ruminant nutrition, and on silvopastoral systems at CATIE As major supervisor, graduated more than 75 MSc students, and 4 PhD students of CATIE Affiliate professor at the University of Chapingo
Professional Memberships	<ul style="list-style-type: none"> Member of the Global Livestock Agenda, which is coordinated by FAO/ILRI. Vice President of the organizing committee of the Latin American congress on Agroforestry and Silvopastoral systems Member of the editorial committee of Tropical Grasslands Representative of IICA in the CCAC- Climate and Clean air Coalition to reduce short lived Climate Pollutants: component on livestock, emissions and manure management Representative of IICA in the FONTAGRO steering committee Representative of IICA in the steering committees of PROCISUR, PROCITROPICOS and PROMECAFE
Awards - Recognition	<ul style="list-style-type: none"> 1985- Vice Chancellor award for best graduating student of the faculty of agriculture at University of Guyana 1985-GAIBANK gold medal for best graduating student of the faculty of agriculture at University of Guyana 1997- Designated best research/professor and worker at CATIE for year 1996 1997- 2010- Received awards from the student council at CATIE on four occasions for best professor of the Department of Agroforestry and Agriculture

List of Relevant Publications	Chapters in Books
	<ul style="list-style-type: none"> • Bucheli, P. Benjamin, T. Rush, G. Ibrahim, M. Casals, P. Pugnaire, F. 2013. Estrategias de los árboles en SSP en el uso eficiente del agua y la tolerancia a la sequía. 25-30p. En: D. Sánchez, C. Villanueva, G. Rusch, M. Ibrahim, F. DeClerck (eds). . Estado del recurso arbóreo en fincas ganaderas y su contribución en la producción en Rivas, Nicaragua. CATIE, Turrialba, Costa Rica. • García-Cruz, F. Ibrahim, M. 2013. Los árboles en los potreros para la reducción del estrés calórico del ganado en los trópicos. 36-41p. En: D. Sánchez, C. Villanueva, G. Rusch, M. Ibrahim, F. DeClerck (eds). . Estado del recurso arbóreo en fincas ganaderas y su contribución en la producción en Rivas, Nicaragua. CATIE, Turrialba, Costa Rica. • Ibrahim, M. Villanueva, C. Sepúlveda, C. Tobar, D. Chuncho, G. 2013. Module 8.: Climate-smart Livestock : Adaptation and mitigation needs. 216-220 pag. En FAO 2013. Climate Smart-Agriculture. Sourcebook. Roma. • Villanueva, C. Ibrahim, M. Lombo, F. Pérez, N. 2013. Potencial de las leñosas forrajeras en potreros para la alimentación del ganado en la época seca. 46-50p. En: D. Sánchez, C. Villanueva, G. Rusch, M. Ibrahim, F. DeClerck (eds). . Estado del recurso arbóreo en fincas ganaderas y su contribución en la producción en Rivas, Nicaragua. CATIE, Turrialba, Costa Rica. • Francesconi, W. Montagnini, F. and Ibrahim, M. 2011. Living fences as linear extensions of forest remnants: a strategy for restoration of connectivity in agricultural landscapes. Pp. 115-126 In: F. Montagnini and C. Finney (Eds.). Restoring degraded landscapes with native species in Latin America. Nova Science Publishers, New York. • Francesconi, W. Montagnini, F. and Ibrahim, M. 2011. Using bird distribution to evaluate the potential of living fences to restore landscape connectivity in pasturelands. Pp. 133-142 In: Montagnini, F., Francesconi, W. and Rossi, E. (eds.). Agroforestry as a tool for landscape restoration. Nova Science Publishers, New York. 201pp. • Villanueva, C. Ibrahim, M. Casasola, F. and Sepulveda, C. 2011. Ecological Indexing as a tool for de Payment for ecosystem services in Agricultural landsacape: The experience of the GEF-Silvopastoral Project in Costa Rica, Nicaragua and Colombia. Pp.141-160. In: Rapidel, B. DeCleek, F. Lecop, FJ.and J. Beer. (eds) Ecosystem services from agriculture and agroforestry. Earthscan-London –UK. • Ibrahim, M. F. Casasola, C. Villanueva, E. Murgueitio, E.

	<p>Ramírez, J. Sáenz, and C. Sepúlveda. 2011. Payment for Environmental Services as a tool to encourage the adoption of silvo-pastoral systems and restoration of agricultural landscapes dominated by cattle in Latin America. Pp. 197-219 In Restoring degraded landscapes with native species in Latin America, eds. F. Montagnini, and C. Finney. New York: Nova Science Publishers.</p> <ul style="list-style-type: none"> • Ruiz, J.P. Murgueitio, E. Ibrahim, M. Zuloaga, A. 2011. Proyecto Enfoques Silvipastoriles integrados para el manejo de ecosistemas. En: C.G. Osorio, J.P. Ruiz, E. Murgueitio (eds). Ganadería Colombiana sostenible. 5-18p. • Amézquita, MC. Murgueitio, E. Ibrahim, M. and Ramírez, B. 2010. Carbon sequestration in pasture and silvopastoral systems compared with native forests in ecosystems of tropical America. In: Abberton, M. Conant, R. and Batello, C. (eds). Grassland carbon sequestration: management, policy and economics. Proceedings of the Workshop on the role of grassland carbon sequestration in the mitigation of climate change. FAO 2010. 153-162p. • Ibrahim, M. Guerra, L. Casasola, F. and Neely, C. 2010. Importance of silvopastoral systems for mitigation of climate change and harnessing of environmental benefits. IN: Abberton, M., Conant, R. And Batello, C. (eds). Grassland carbon sequestration: management, policy and economics. Proceedings of the Workshop on the role of grassland carbon sequestration in the mitigation of climate change. FAO 2010. 189-198 p. • Ibrahim, M., Porro, R. and R. Martins. 2010. Brazil and Costa Rica: Deforestation and Livestock Expansion in the Brazilian Legal Amazon and Costa Rica: Drivers, Environmental Degradation, and Policies for Sustainable Land Management .In Livestock in a Changing Landscape. Experiences and Regional Perspectives volume 2. 74-95p. • Toutain, B. Ickowicz, A. Dutilly-Diane, C. Reid, R.S. Diop, AT. Taneja, V.K. Gibon, A. Genin, D. Ibrahim, M. Behnke, R. Ash, A. 2010. Impacts of extensive livestock systems on terrestrial ecosystems. In Livestock in a changing landscape, Volume 1: drivers, consequences and responses. Island Press, Washington (USA). 2010. 165-195p. • Villanueva, C. Ibrahim, M. Casasola, F. Sepúlveda, C. 2010. Ecological indexing as a tool for the payment of ecosystem services in agricultural landscapes: the experience of the GEF Silvopastoral Project in Costa Rica, Nicaragua and Colombia. In: In: Rapidel, B. DeClerck, F.A.J. Le Coq, J. Beer, J. (eds.). Ecosystem Services from Agriculture and Agroforestry. Measurement and Payment. 141-160p.
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	<ul style="list-style-type: none"> • Casasola, F. Ibrahim, M. Sepulveda, C. Rios, N. y D. Tobar. 2009. Implementación de sistemas silvopastoriles y el pago de servicios ambientales en Esparza, Costa Rica: una herramienta para la adaptación al cambio climático en fincas ganaderas. P. 169-188. En: Ibrahim, M. Sepulveda, C (eds). 2009, Políticas y sistemas de incentivos para el fomento y adopción de buenas prácticas agrícolas: como una medida de adaptación al cambio climático en América Central. Serie Técnica No. 377. CATIE, Turrialba, Costa Rica. • Villanueva, C. Ibrahim, M. Casasola, F. Rios, N. y Sepulveda, C. 2009. Sistemas Silvopastoriles: una herramienta para la adaptación al cambio climático de las fincas ganaderas en América Central. P. 103-126. En: Ibrahim, M. Sepulveda, C (eds). 2009, Políticas y sistemas de incentivos para el fomento y adopción de buenas prácticas agrícolas: como una medida de adaptación al cambio climático en América Central. Serie Técnica No. 377. CATIE, Turrialba, Costa Rica. • Mora, J. Ibrahim, M. Cruz, J. Casasola, F. Rosales, M. Holguín, V.A. 2005. Preliminary analysis of the impact of payment for environmental services on land-use changes: a case study on livestock farms in Costa Rica In: Silvopastoralism and sustainable land management. Mosquera-Losada, M.R., J. McAdam and A. Rigueiro-Rodriguez (eds.). CABI publishing, pp. 335-342. • Pagiola, S. Agostini, P. Gobbi, J. de Haan, C. Ibrahim, M. Murgueitio, E. Ramirez, E. Rosales, M. Ruiz, J.P. 2005. Paying for biodiversity conservation services – experience in Colombia, Costa Rica, and Nicaragua. Mountain Research and Development 25: 206-211
	<p>Edition of Books and Proceedings</p> <ul style="list-style-type: none"> • Mugueitio, E. Chara, J. Ruiz, JP. Ibrahim, M. Guerra, L. Soto-Carreño, A. Cuartas, C. Naranjo, JF. 2011.(eds) Los Sistemas silvopastoriles y el cambio climático .En: C.G. Osorio, J.P. Ruiz, E. Mugueitio (eds). Ganadería Colombiana sostenible. 101-107p. • Ibrahim, M., Mugueitio, E.(eds) 2010. Resúmenes, IV Congreso Internacional de Agroforestería para la Producción Pecuaria Sostenible: Multiplicación de los sistemas agroforestales y silvopastoriles para la adaptación y mitigación del cambio climático en territorios ganaderos. CATIE CIPAV 1^a ed. Serie técnica. Reuniones técnicas / CATIE no.15 Turrialba, Costa Rica 160 p. • Ibrahim, M. Sepulveda, C (eds). 2009, Políticas y sistemas de incentivos para el fomento y adopción de buenas prácticas agrícolas: como una medida de adaptación al cambio climático

	<p>en América Central. Serie Técnica No. 377. CATIE, Turrialba, Costa Rica. 277p.</p> <ul style="list-style-type: none"> • Mannetje, L. Amézquita, M.C. Buurman, P. y M. Ibrahim (eds). 2008. Carbon sequestration in tropical grassland ecosystem. Wageningen Academic Publishers. 221p.
	<p>Articles in International Journals</p> <ul style="list-style-type: none"> • Casals, P. Romero, J. Rusch, G.M. Ibrahim, M. 2013. Soil organic C and nutrient contents under trees with different functional characteristics in seasonally dry tropical silvopastures. Plant and Soil. On line Published • Rusch, G.M. Zapata, P. Casanoves, F. Casals, P. Ibrahim, M. DeClerck, F. 2014. Determinants of grassland primary production in seasonally-dry silvopastoral systems in Central America. Agroforestry Systems. 88:517-526 • Montagnini, F., Ibrahim, M. and Murgueitio Restrepo, E. 2013. Silvopastoral systems and mitigation of climate change in Latin America. Bois et Forêts des Tropiques. 316 No. 2 • Harvey, C. Villanueva, C. Esquivel, H. Gómez, R. Ibrahim, M. López, M. Martinez, J. Muñoz, D. Restrepo, C. Saenz, J. Villacis, J. Sinclair, F. 2011. Conservation value of dispersed tree cover threatened by pasture management. Forest Ecology and Management 261:1664-1674. • Esquivel, H. Ibrahim, M. Harvey, C. Benjamin, T. Sinclair, F. 2011. Dispersed trees in pasturelands of cattle farms in a tropical dry ecosystem. Tropical and Sub tropical Agroecosystem, 14:933-941. • Barton, D.N Ring, I. Rusch, G. May, P. DeClerck, F. Vignola, R. Vivan, J.L. Ansink, E. Unnerstall, H. Santos, R. Antunes, P. Brouwer, R. Grieg-Gran, M. Similä, J. Primmer, E. Romeiro, A. Ibrahim, M. 2010. Assessing the role of economic instruments in a policy mix for biodiversity conservation and ecosystem services provision: a review of some methodological challenges. • Nahed-Toral, J., H. Gomez-Castro, R. Pinto-Ruiz, F. Guevara-Hernandez, F. Medina-Jonapa. Ibrahim, M and D. Grande-Cano. 2010. Research and development of silvopastoral systems in a village in the buffer zone of the El Ocote Biosphere Reserve, Chiapas, Mexico. Res. J. Biol. Sci., 5: 499-507p • Tobar, D. Ibrahim, M. 2010. ¿Las cercas vivas ayudan a la conservación de la diversidad de mariposas en paisajes agropecuarios? .Revista Biología Tropical, Vol. 58 (1): 447-463p.

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Computer skills	Good knowledge of the use computer software for statistical analysis and GIS applications and Microsoft Office applications				
Knowledge of Language	Language	Read	Write	Speak	
	English	Excellent	Excellent	Excellent	
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