ANNEX –1: LIST OF STAFF

**TSBF Institute - Director**
Sanginga, Nteranya (Soil Microbiologist)

**TSBF Institute – Africa Staff**

**Senior Staff**
Amede, Tilahun (Soil Scientist)
Bationo, André (African Network Coordinator - Soil Scientist)
Chianu, Jonas (Socio Economist)
Delve, Robert (Soil Fertility Management)
Huising, Jeroen (BGBD Coordinator/GIS Scientist)
Jefwa, Joyce (Microbiologist)
Lesueur, Didier (Microbiologist)
Murwira, Herbert (Soil Scientist)
Ohiokpехаі, Omo (Food & Nutrition Scientist)
Okoth, Peter (Information Manager)
Ramisch, Joshua (Social Scientist)
Vanlauwe, Bernard (Soil Scientist)
Verma, Ritu (Anthropologist)
Andren, Olle (Soil Scientist, Modeler)
Roing, Kristina (Agronomist)

**Consultants**
Danso, Seth (Rhizobiology, BGBD project)
Osgood, Diane (Economist, BGBD Project)
Swift, Mike (BGBD Project)

**Research Assistants**
Ekise, Isaac (Asst Scientific Officer)
Kankwatsa, Peace (Research Asst, Kampala)
Kihara, Job (Asst Scientific Assistant)
Mukalama, John (Snr Scientific Assistant)
Rusinamhofdzi, Leonard (Research Asst, Harare)
Wangechi, Helen (Asst Scientific Officer)
Waswa, Boaz (Asst Scientific Officer)

**Technical staff**
Muthoni, Margaret (Laboratory Attendant)
Ngului, Wilson (Laboratory Technician)
Nyambega, Laban (Field Technician)
Njenga, Francis (Laboratory Attendant)
Muranganwa, Francis (Field Worker Harare)

**Administration staff**
Agalo, Henry (Driver / Field Assistant)
Akech, Caren (Secretary)

**TSBF Institute – Latin America Staff**

**Senior Staff**
Amézquita, Edgar (Soil Physics)
Ayarza, Miguel (Agronomy) MIS Coord., Honduras
Barrios, Edmundo (Soil Ecology and Biodiversity)
Estrada, Rubén D. (Resource Economist, CIP)
Rao, Idupulapati (Plant Nutrition and Physiology)
(40% TSBF Institute, 30% IP1, 30% IP5)
Rubiano, Jorge (Agronomist/GIS)

**Senior Research Fellows**
Rondón, Marco (Ecosystem Services)
Rubiano, Jorge (GIS/Agronomy)

**Consultants**
Mesa, Eloina (Biometrics)

**Research Associates**
Asakawa, Neuza
Cobo, Juan

**Research Assistants**
Borrero, Gonzalo
Chávez, Luis Fernando
Corrales, Irlanda Isabel
García, Edwin
Girón, Ernesto
Hurtado, María del Pilar
Molina, Diego Luis
Ocampo, Gloria Isabel
Pernett, Ximena
Quintero, Jenny
Quintero, Marcela
Rivera, Mariela
Rodríguez, Gloria Marcela
Trejo, Marco
Specialists:
Galvis, Jesús Hernando
Rodríguez, José Arnulfo
Melo, Edifonso

Secretaries:
Cervantes de Tchira, Carmen
Núñez, Cielo
Esober, Vilia

Technicians:
Alvarez, Arvey
Díaz, Enna Bernarda
Herrera, Pedro
Mina, Hernán
Molina, Jarden

Otero, Martín
Rodríguez, Carlos
Rodríguez, Maryory
Rojas, Gonzalo
Sánchez, Amparo
Toro, Flaminio
Trujillo, Carlos Arturo

Workers:
Cayapú, Joaquin
Messu, Adolfo
Ortega, Viviana
Salamanca, Josefa
## ANNEX-2: LIST OF STUDENTS

### A. TSBF Institute - Africa

<table>
<thead>
<tr>
<th>Name</th>
<th>Nationality</th>
<th>Degree</th>
<th>Status</th>
<th>Institution</th>
<th>Research theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alejandro Ponce</td>
<td></td>
<td>PhD</td>
<td>Continuing</td>
<td>CINVESTAV-IPN</td>
<td>Abundance and diversity of macrofauna and soil aggregates in soil of Central Kenya added with organic material.</td>
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<tr>
<td>Aliou Faye</td>
<td>Senegalese</td>
<td>PhD</td>
<td></td>
<td>Centre International d’Enseignement a Distance, Rouen, France</td>
<td>Contribution of the assessment of the rhizobial diversity and its impact on the soil fertility within a natural settlement of <em>Acacia nilotica subs tomentosa</em>: example of the natural forest of Diarra located in the Senegal River Valley.</td>
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<tr>
<td>Amadou Sarr</td>
<td>Mauritanian</td>
<td>PhD</td>
<td>Completed</td>
<td>University Cadi Ayyad, Faculte des Sciences, Semlalia/arrakech (Maroc).</td>
<td>Symbiotic improvement of growth of <em>Acacia senegal</em> and <em>Acacia nilotica</em> in Senegal and Mauritania.</td>
</tr>
<tr>
<td>Charles Walaga</td>
<td>Ugandan</td>
<td>PhD</td>
<td>Continuing</td>
<td>University of Natural Resources and Applied Life Sciences (BOKU), Vienna, Austria</td>
<td>Organic agriculture development and livelihood improvement in Uganda: Future scenarios and policy measures.</td>
</tr>
<tr>
<td>Dilys Kpongor</td>
<td>Ghanaian</td>
<td>PhD</td>
<td>Continuing</td>
<td>ZEF, Univ. of Bonn, Germany</td>
<td>Evaluation of the best-bet soil fertility restoration technologies in Northern Nigeria.</td>
</tr>
<tr>
<td>Edward Yeboah</td>
<td>Ghanaian</td>
<td>PhD</td>
<td>Continuing</td>
<td>University of Ghana, Ghana</td>
<td>Sustaining crop productivity: the influence of organic resource quality and quantity.</td>
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<tr>
<td>Elisabeth Gotschi</td>
<td>Austrian</td>
<td>PhD</td>
<td>Continuing</td>
<td>University of Natural Resources and Applied Life Sciences (BOKU), Vienna, Austria</td>
<td>Social capital in smallholder marketing groups in Sofala Province, Mozambique.</td>
</tr>
<tr>
<td>Jacintha Kimiti</td>
<td>Kenyan</td>
<td>PhD</td>
<td>Continuing</td>
<td>Kenyatta University, Kenya</td>
<td>Integrating legumes in the farming systems of Eastern Kenya to enhance soil fertility.</td>
</tr>
<tr>
<td>Jackson Tumwine</td>
<td>Ugandan</td>
<td>PhD</td>
<td>Continuing</td>
<td>University of Natural Resources and Applied Life Sciences (BOKU), Vienna, Austria</td>
<td>Linking farmers to market: challenges and opportunities of improving rural livelihoods for communities affected by HIV/AIDS in Uganda.</td>
</tr>
<tr>
<td>Name</td>
<td>Nationality</td>
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<td>Status</td>
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<tr>
<td>Jane Kapkiyai</td>
<td>Kenyan</td>
<td>PhD</td>
<td>Continuing</td>
<td>Cornell University, USA</td>
<td>Effects of legume green manures on crop productivity and nutrient cycling in maize-based cropping systems of Western Kenya.</td>
</tr>
<tr>
<td>John Ojiem</td>
<td>Kenyan</td>
<td>PhD</td>
<td>Continuing</td>
<td>Wageningen University, Netherlands</td>
<td>Niche-based approach to soil fertility improvement by legumes in Western Kenya smallholder farming systems.</td>
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<tr>
<td>Joseph Kimetu</td>
<td>Kenyan</td>
<td>PhD</td>
<td>Continuing</td>
<td>Cornell University, USA</td>
<td>Restoration of soils in Western Kenya using manure and <em>Tithonia diversifolia</em>.</td>
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<tr>
<td>Juan Cobo</td>
<td>Colombian</td>
<td>PhD</td>
<td>Continuing</td>
<td>Hohenheim, Germany</td>
<td>Spatial and temporal management of nutrient and water resources in Zimbabwe and Mozambique.</td>
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<tr>
<td>Kibiby Mtenga</td>
<td>Tanzanian</td>
<td>PhD</td>
<td>Continuing</td>
<td>Cornell University, USA</td>
<td>Gender and soil fertility management in Malawi: a participatory analysis of farmers’ incentives to reinvest in soil fertility management innovations by women and men farmers.</td>
</tr>
<tr>
<td>Michael Misiko</td>
<td>Kenyan</td>
<td>PhD</td>
<td>Continuing</td>
<td>Wageningen University, Netherlands</td>
<td>Knowledge and networks: Challenges and opportunities for scaling up integrated soil fertility management regimes.</td>
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<tr>
<td>Monicah Mucheru</td>
<td>Kenyan</td>
<td>PhD</td>
<td>Continuing</td>
<td>Kenyatta University, Kenya</td>
<td>N dynamics as affected by soil fertility status and nutrient replenishment inputs in the central highlands of Kenya.</td>
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<tr>
<td>Pablo Tittonell</td>
<td>Argentina</td>
<td>PhD</td>
<td>Continuing</td>
<td>Wageningen University, Netherlands</td>
<td>Exploring options, analysing tradeoffs and deriving indicators of efficiency for integrated nutrient management in smallholder farming systems of East Africa.</td>
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<tr>
<td>Pamela Pali</td>
<td>Ugandan</td>
<td>PhD</td>
<td>Continuing</td>
<td>University of Natural Resources and Applied Life Sciences (BOKU), Vienna, Austria</td>
<td>Impact of organic agriculture in Uganda: improving livelihoods through sustainable natural resource management.</td>
</tr>
<tr>
<td>Pauline Nhamo</td>
<td>Zimbabwean</td>
<td>PhD</td>
<td>Continuing</td>
<td>University of California, USA</td>
<td>Exploring how organic and mineral nutrient combinations interact to regulate nutrient cycling.</td>
</tr>
<tr>
<td>Name</td>
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<td>Peter Ebanyat</td>
<td>Ugandan</td>
<td>PhD</td>
<td>Continuing</td>
<td>Wageningen University, Netherlands</td>
<td>Dynamics of soil organic matter and nitrogen in farmer field schools generated integrated soil fertility management practices.</td>
</tr>
<tr>
<td>S. Some</td>
<td>Burkinabe</td>
<td>PhD</td>
<td></td>
<td>ZEF, Univ. of Bonn, Germany</td>
<td>Water use efficiency of sorghum based cropping systems in Dano, Burkina Faso.</td>
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<tr>
<td>Shamie Zingore</td>
<td>Zimbabwean</td>
<td>PhD</td>
<td>Continuing</td>
<td>Wageningen University, Netherlands</td>
<td>Farm-scale evaluation of nutrient use efficiencies of resource management options in smallholder farming systems of Zimbabwe.</td>
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<tr>
<td>Agnes Kavoo</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Continuing</td>
<td>Kenyatta University, Kenya</td>
<td>Interactions between resource quality, aggregate turnover, and C and N cycling in the Central Highlands of Kenya.</td>
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<tr>
<td>Dick Lufafa</td>
<td>Ugandan</td>
<td>MSc</td>
<td>Continuing</td>
<td>Makerere University, Uganda</td>
<td>On-farm comparison of the economic profitability of selected dual-purpose live barriers. Second year.</td>
</tr>
<tr>
<td>Emily Ruto</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Completed</td>
<td>Moi University</td>
<td>An attempt to promote the use of prep-pac in Western Kenya.</td>
</tr>
<tr>
<td>Esther Rutto</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Completed</td>
<td>Egerton University, Kenya</td>
<td>Farmers’ perceptions and evaluation of integrated approaches to combat striga, stemborer and soil fertility problems in Western Kenya.</td>
</tr>
<tr>
<td>Giannis Papanagiotou</td>
<td>Greek</td>
<td>MSc</td>
<td>Continuing</td>
<td>Wageningen University, Netherlands</td>
<td>The effect of endogeic earthworms on aggregate formation, stability and carbon distribution within different aggregate fragments in a vitro study.</td>
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<tr>
<td>Grace Agwaru</td>
<td>Ugandan</td>
<td>MSc</td>
<td>Continuing</td>
<td>Makerere University, Uganda</td>
<td>Assessing approaches and developing methods for presentation of research results to farmers within their livelihood situations: a case study in Soroti and Arua Districts.</td>
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<tr>
<td>Harrison Githinji</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Continuing</td>
<td>Moi University</td>
<td>Effects of conservation tillage and organic residues on crop productivity.</td>
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<tr>
<td>Job Ogada</td>
<td>Kenyan</td>
<td></td>
<td>Completed</td>
<td>Egerton University, Kenya</td>
<td>Evaluation of interactions between farmers’ resource endowment and within-farm resource flows in Western Kenya.</td>
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<tr>
<td>Name</td>
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<td>Judith Odhiambo</td>
<td>Kenyan</td>
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<td>Continuing</td>
<td>Egerton University, Kenya</td>
<td>Effect of selected legume species on germination of <em>Striga hermonthica</em> seeds: a control strategy in maize.</td>
</tr>
<tr>
<td>Justin Muriuki</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Continuing</td>
<td>Kenyatta University, Kenya</td>
<td>Economic evaluation of organic and inorganic technologies for soil nutrient enhancement in Mukuuni and Mrugi, Central Kenya.</td>
</tr>
<tr>
<td>Kiwanka Achilles</td>
<td>Ugandan</td>
<td>MSc</td>
<td>Continuing</td>
<td>Makerere University, Uganda</td>
<td>Environmental and socio-economic impact of organic farming on the livelihood of small-scale farmers in Uganda.</td>
</tr>
<tr>
<td>Mary Baaru</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Completed</td>
<td>Kenyatta University, Kenya</td>
<td>Effects of organic materials of differing quality and inorganic fertilizer on soil microbial biomass at Kabete, Kenya.</td>
</tr>
<tr>
<td>Matieu Henry</td>
<td>French</td>
<td>MSc</td>
<td>Continuing</td>
<td>CNEARC/ ENGREF</td>
<td>Carbon sequestration in the agrarian system of Western Kenya and eligibility to clean development mechanism.</td>
</tr>
<tr>
<td>Micheal Ochieng</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Continuing</td>
<td>Jomo Kenyatta University, Kenya</td>
<td>On-farm interaction between soil fertility factors, farmer management, pests and diseases and the growth and yields of banana in Maragwa district, Kenya.</td>
</tr>
<tr>
<td>Moses Thuita</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Completed</td>
<td>Moi University</td>
<td>On farm testing of phosphorus availability from phosphate rocks as affected by addition of local organic resources in western Kenya.</td>
</tr>
<tr>
<td>Mwashasha Rashidi</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Continuing</td>
<td>Jomo Kenyatta, Kenya</td>
<td>Evaluation of the potential of various AMF strains to improve the initial growth of banana.</td>
</tr>
<tr>
<td>Nekesa Abigail</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Completed</td>
<td>Moi University</td>
<td>A study on the liming effect of Minjingu phosphate rock in an acidic soil in western Kenya.</td>
</tr>
<tr>
<td>Nelson Ojango</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Completed</td>
<td>Wye College, University of London, UK</td>
<td>Market and demand for soybean by livestock feed industries in Kenya.</td>
</tr>
<tr>
<td>Salome Muriuki</td>
<td>Kenyan</td>
<td>MSc</td>
<td>Completed</td>
<td>Kenyatta University, Kenya</td>
<td>Assessment of long term impacts of organic and inorganic fertilizers on soil P fractions in Machanga, Mbeere District, Kenya.</td>
</tr>
<tr>
<td>Name</td>
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<tr>
<td>Telesphoret Ndabameny</td>
<td>Rwandese</td>
<td>MSc</td>
<td>Continuing</td>
<td>Wageningen University, Netherlands</td>
<td>Interactions of soil macrofauna, tillage and organic amendment affect soil aggregation, organic matter dynamics and crop performance in Kenyan cropping systems.</td>
</tr>
<tr>
<td>Wouter Ton</td>
<td>Dutch</td>
<td>MSc</td>
<td>Completed</td>
<td>University Twente, Netherlands</td>
<td>Comparison of participatory approaches in Uganda.</td>
</tr>
<tr>
<td>Samwel Njoroge</td>
<td>Kenyan</td>
<td>BSc</td>
<td>Completed</td>
<td>Kenyatta University, Kenya</td>
<td>Laboratory methods for soil analysis.</td>
</tr>
<tr>
<td>Amek Tom</td>
<td>Kenyan</td>
<td>MA</td>
<td>Continuing</td>
<td>Economics Department, University of Nairobi, Kenya</td>
<td>Ex-ante adoption potential of seven technological options for improving ecosystem services in Kenya.</td>
</tr>
<tr>
<td>Lucy Njaramba</td>
<td>Kenyan</td>
<td>MA</td>
<td>Continuing</td>
<td>Institute of Development Studies (IDS), University of Nairobi, Kenya</td>
<td>Market and demand for soybean by food processing industries and supermarkets in Kenya.</td>
</tr>
<tr>
<td>B. TSBF Institute - Latin America</td>
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<tr>
<td>Alvaro Rincón</td>
<td>Colombian</td>
<td>PhD</td>
<td>Completed</td>
<td>National University, Colombia</td>
<td>Integration of maize with forages to recuperate degraded pastures in the Llanos of Colombia.</td>
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<tr>
<td>Andrés Rangel</td>
<td>Colombian</td>
<td>PhD</td>
<td>Continuing</td>
<td>University of Hannover, Germany</td>
<td>Mechanisms of aluminum resistance in common bean.</td>
</tr>
<tr>
<td>Annabé Louw-Gaume</td>
<td>South African</td>
<td>PhD</td>
<td>Continuing</td>
<td>ETHZ, Zurich</td>
<td>Mechanisms of low phosphorus adaptation in <em>Brachiaria</em>.</td>
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<tr>
<td>Aracely Castro</td>
<td>Honduran</td>
<td>PhD</td>
<td>Continuing</td>
<td>Nacional University, Colombia</td>
<td>Nutrient dynamics in the Quesungual Agroforestry System.</td>
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<tr>
<td>Edier Humberto Pérez</td>
<td>Colombian</td>
<td>PhD</td>
<td>Continuing</td>
<td>U. del Valle, Colombia</td>
<td>Pollutants and soil water fluxes.</td>
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<tr>
<td>Jorge F. Navia</td>
<td>Colombian</td>
<td>PhD</td>
<td>Continuing</td>
<td>National University, Colombia</td>
<td>Impact of residue quality on beneficial soil biota in root-rot infested soils.</td>
</tr>
<tr>
<td>Julie Major</td>
<td>Canadian</td>
<td>PhD</td>
<td>Continuing</td>
<td>Cornell University, USA</td>
<td>Reducing nutrient leaching on acid soils trough charcoal amendments to soils.</td>
</tr>
<tr>
<td>Mariela Rivera P.</td>
<td>Colombian</td>
<td>PhD</td>
<td>Continuing</td>
<td>Nacional University, Colombia</td>
<td>Water dynamics in the Quesungual Agroforestry System.</td>
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<tr>
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<td>Martha Bolaños</td>
<td>Colombian</td>
<td>PhD</td>
<td>Completed</td>
<td>National University, Colombia</td>
<td>Role of soil enzymes in vegetable banana production systems.</td>
</tr>
<tr>
<td>Natasha Pauli</td>
<td>Australian</td>
<td>PhD</td>
<td>Continuing</td>
<td>Univ. of Western Australia</td>
<td>The potential of the Quesungual Agroforestry System for soil biodiversity conservation and management in Western Honduras.</td>
</tr>
<tr>
<td>Nelson Castañeda</td>
<td>Colombian</td>
<td>PhD</td>
<td>Continuing</td>
<td>University of Goettingen, Germany</td>
<td>Genotypic variation in P acquisition &amp; utilization in <em>A. pintoi</em>.</td>
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<td>Sergio Mejia</td>
<td>Colombian</td>
<td>PhD</td>
<td>Continuing</td>
<td>National University, Colombia</td>
<td>Identification of candidate genes responsible for adaptation of tropical forage grass, <em>Brachiaria</em> to low phosphorus soils.</td>
</tr>
<tr>
<td>Steve Fonte</td>
<td>American</td>
<td>PhD</td>
<td>Continuing</td>
<td>U.C.Davis, USA</td>
<td>Influence of management practices, litter inputs and earthworm activity on soil fertility and soil organic matter dynamics in the Quesungual Agroforestry System.</td>
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<tr>
<td>Twaha Atenyi</td>
<td>Ugandan</td>
<td>PhD</td>
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<td>Agricultural University of Norway</td>
<td>Soil phosphorus transformations and organic matter dynamics.</td>
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<tr>
<td>Belisario Volverás</td>
<td>Colombian</td>
<td>MSc</td>
<td>Continuing</td>
<td>U.de Nariño, Pasto-Colombia</td>
<td>No-tillage systems in hillsides planted with potato.</td>
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<tr>
<td>José Jaumer Ricaurte</td>
<td>Colombian</td>
<td>MSc</td>
<td>Continuing</td>
<td>National University, Colombia</td>
<td>Impact of aluminium tolerant <em>Brachiaria</em> genotypes on soil quality characteristics of an Oxisol of the Altiplanura of the Meta Department of Colombia.</td>
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<td>Jesús H. Galvis</td>
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<td>National University, Colombia</td>
<td>Sealing and crusting in the Llanos.</td>
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<td>José Augusto Rodríguez T.</td>
<td>Colombian</td>
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<td>Influence of some amendments in some physical, chemical and biological characteristics of a magnesium soils.</td>
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<tr>
<td>Luis Carlos Pardo</td>
<td>Colombian</td>
<td>MSc</td>
<td>Completed</td>
<td>Universidad del Valle, Cali</td>
<td>Biological erosion in rainforest.</td>
</tr>
<tr>
<td>Lyda Zárate</td>
<td>Colombian</td>
<td>MSc</td>
<td>Completed</td>
<td>National University, Colombia</td>
<td>Dynamics of water stable soil aggregation mediated by three different AMF species.</td>
</tr>
<tr>
<td>Name</td>
<td>Nationality</td>
<td>Degree</td>
<td>Status</td>
<td>Institution</td>
<td>Research theme</td>
</tr>
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<tr>
<td>Marcela Quintero</td>
<td>Colombian</td>
<td>MSc</td>
<td>Continuing</td>
<td>University of Florida</td>
<td>Measurement and valuation of soil environmental services in the Andes.</td>
</tr>
<tr>
<td>Oscar Iván Ferreira</td>
<td>Honduran</td>
<td>MSc</td>
<td>Continuing</td>
<td>Nacional University, Colombia</td>
<td>Balances of greenhouse gases in the Quesungual system.</td>
</tr>
<tr>
<td>Oscar Molina</td>
<td>Colombian</td>
<td>MSc</td>
<td>Completed</td>
<td>National University, Colombia</td>
<td>Effect of residual P fertilizer and organic manure application on mycorrhizal association of maize-bean rotation in P-fixing Andisol in Cauca, Colombia.</td>
</tr>
<tr>
<td>Agustina Calero</td>
<td>Nicaragua</td>
<td>BSc</td>
<td>Completed</td>
<td>UNA</td>
<td>Physiography of the Rio la Danta microwatershed, Somotillo, Nicaragua.</td>
</tr>
<tr>
<td>Andrés Ceballos and Victor Bermúdez</td>
<td>Colombian</td>
<td>BSc</td>
<td>Continuing</td>
<td>Universidad del Valle, Cali-Colombia</td>
<td>Charcoal production by small scale producers in Colombia: improvements on the efficiency of production and and on safety production.</td>
</tr>
<tr>
<td>Andrés Pereira Abella</td>
<td>Colombian</td>
<td>BSc</td>
<td>Continuing</td>
<td>Universidad del Valle, Cali-Colombia</td>
<td>Comparison of NIRS vs MIRS methodologies for analysis of total soil carbon and nitrogen.</td>
</tr>
<tr>
<td>Denis Valladares</td>
<td>Honduras</td>
<td>BSc</td>
<td>Completed</td>
<td>ESNACIFOR</td>
<td>Estimating total carbon stocks in soils from the Fuquene Lagoon watershed using a Bayesian statistical model.</td>
</tr>
<tr>
<td>Gettsy Elizabeth Quiñónez Mora</td>
<td>Colombian</td>
<td>BSc</td>
<td>Continuing</td>
<td>Universidad del Valle, Cali-Colombia</td>
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</tr>
<tr>
<td>Joisse Rincón</td>
<td>Colombian</td>
<td>BSc</td>
<td>Completed</td>
<td>National University, Colombia</td>
<td>Drought adaptation in Brachiaria.</td>
</tr>
<tr>
<td>José S. Muñoz</td>
<td>Colombian</td>
<td>BSc</td>
<td>Completed</td>
<td>National University, Colombia</td>
<td>Composting in Pescador, Cauca: an appropriate technology for residue management and environmental protection.</td>
</tr>
<tr>
<td>Leslie Fariña</td>
<td>Nicaragua</td>
<td>BSc</td>
<td>Completed</td>
<td>UNA</td>
<td>Physiography of the Rio la Danta microwatershed, Somotillo, Nicaragua.</td>
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<tr>
<td>Lester Talley</td>
<td>Nicaragua</td>
<td>BSc</td>
<td>Completed</td>
<td>UNA</td>
<td>Floristic characterization of the Rio la Danta microwatershed, Somotillo, Nicaragua.</td>
</tr>
<tr>
<td>Lina M. Gaviria</td>
<td>Colombian</td>
<td>BSc</td>
<td>Completed</td>
<td>U. Surcolombiana, Neiva-Colombia</td>
<td>Characterization of surface biogenic structures under different cassava treatments in Santander de Quilichao.</td>
</tr>
<tr>
<td>Name</td>
<td>Nationality</td>
<td>Degree</td>
<td>Status</td>
<td>Institution</td>
<td>Research theme</td>
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<tr>
<td>Luisa Jiménez</td>
<td>Colombian</td>
<td>BSc</td>
<td>Continuing</td>
<td>National University, Colombia</td>
<td>Physicochemical characterization of charcoal for agricultural use.</td>
</tr>
<tr>
<td>Milton Delcid</td>
<td>Honduras</td>
<td>BSc</td>
<td>Completed</td>
<td>UNA</td>
<td>Nitrogen response curves to validate the NuMaSS system.</td>
</tr>
<tr>
<td>Namán Sánchez</td>
<td>Honduras</td>
<td>BSc</td>
<td>Completed</td>
<td>ESNACIFOR</td>
<td>Biomass accumulation and nutrient composition of three forest species in the Quesungual system.</td>
</tr>
<tr>
<td>Osman Contreras</td>
<td>Honduras</td>
<td>BSc</td>
<td>Completed</td>
<td>UNA</td>
<td>Nitrogen response curves to validate the NuMaSS system.</td>
</tr>
<tr>
<td>Tomás Gutiérrez</td>
<td>Nicaragua</td>
<td>BSc</td>
<td>Completed</td>
<td>UNA</td>
<td>Floristic characterization of the Rio la Danta microwatershed, Somotillo, Nicaragua.</td>
</tr>
<tr>
<td>Yenni López</td>
<td>Colombian</td>
<td>BSc</td>
<td>Completed</td>
<td>National University, Colombia</td>
<td>Drought adaptation in common bean.</td>
</tr>
</tbody>
</table>
ANNEX-3: LIST OF PARTNERS

TSBF Institute’s research for development programme is implemented through projects implemented with a wide range of partners. These include in particular the scientists from NARES and universities in tropical countries and advanced research institutes and universities in developed countries, who are members of the programme networks, of which the largest is the African Network for Soil Biology and Fertility (AfNet) followed by MIS and SARNet. Other projects are implemented through CGIAR system-wide programmes (SWPs) such as AHI and Challenge Programme. Donors for TSBF projects currently include, in addition to the Rockefeller Foundation, CIDA, IDRC, DIFD, IFAD, DANIDA, BMZ, NORAD, USAID, ACIAR and UNEP-GEF and the consortia of donors to the CGIAR’s SWPs and CPs. Some of these projects fund the TSBF-CIAT outposted staff in Zimbabwe, Uganda and Honduras.

At the regional basis TSBF-CIAT’s alliance with ICRAF and the NARS in East and Southern Africa will be expanded to ICRISAT and CIMMYT and possibly to IITA and WARDA in West Africa. Cooperation with FARA and other regional organization such as ASARECA, CORAF and SACCAR will be strengthened. In Latin America work will focus in Central American hillsides with the MIS consortium, in the Andean hillsides region with CONDESAN and CORPOICA and in the tropical savannas of the Llanos with CORPOICA and the local universities.

TSBF Institute-Africa

NARS: Kenyatta University, Kenya, VLIR project on food security in Central Kenya; RF soybean project; JLUAT, Kenya, RF banana project; NARO, Uganda and LZARDI, Tanzania, DfID project on striga management in the Lake Victoria Basin; NARO, Uganda, RF project on exploring soybean potential in East Africa; KARI, Kenya, DfID project on striga management in the Lake Victoria Basin; University of Zimbabwe, Zimbabwe, NS project on soil aggregation; Soil Research Institute, Ghana, NS project on soil aggregation; INERA, D R Congo, ISAR, Rwanda, DGDC project on legume integration in systems in Central Africa; DGDC project on banana management in Central Africa; ISABU and IRAZ, Burundi, DGDC project on banana management in Central Africa; University of Kinshasa and University of Bukavu, D R Congo, VLIR project on cassava in D R Congo; Forest Dept of CIRAD, France, Kenyan Forestry Research Institute, Kenya, FOFIFA, Madagascar INCO DEV FOREAIM on Bridging restoration and multi-functionality in degraded forest landscape of Eastern Africa and Indian Ocean islands; INERA-DPF, Burkina Faso and Forest Dept of CIRAD, France, project CORAF/Gomme Arabique on Impact de l’inoculation par les rhizobiums sur la productivite de gommeraies plantees ou naturelles et la dynamique de facteurs liées au fonctionnement biologique des sols sous-jacents; INERA, Burkina Faso, ISRA, Senegal, FOFIFA, Madagascar, project ANR/MICROBES project on microbial observatories for the management of soil ecosystem services in the tropic; KEFRI, Kenya, Forest Dept of CIRAD, France and Grassland Research Station, Zimbabwe, project INCO DEV SAFSYS on Symbionts in agroforestry systems: what are the long-term impacts of inoculation of Calliandra calothyrsus and its intercrops; Antananarivo University, Madagascar and University of Makerere, Uganda project INCO DEV FOREAIM on Bridging restoration and multi-functionality in degraded forest landscape of Eastern Africa and Indian Ocean islands; University of Niamey, Niger and University Cheikh Anta Diop, Senegal, project CORAF/Gomme Arabique on Impact de l’inoculation par les rhizobiums sur la productivite de gommeraies plantees ou naturelles et la dynamique de facteurs liées au fonctionnement biologique des sols sous-jacents; Institut National de Recherches Agronomiques du Niger (INRAN); Niamey/Niger; Institut d’Economie Rurale (IER), Mali; ARS, Chilanga Zambia (Moses Mwale); EARO (Ethiopian Agricultural Research organization), Ethiopia; Ahmadu Bello University, Nigeria; ARI Mlingano, Tanzania; Egerton University, Kenya; University of Nairobi, Nairobi, Kenya (Rosemary
Atieno); Makerere University, Kampala, Uganda (Elizabeth K. Balirwa, Jonny Mugisha, John Baptiste, Mary Silver); Lake Basin Development Authority (Kenya) (Amos Ameya); Selian Agricultural Research Institute (Tanzania) (Sossi Kweka and Festo Ngulu); Southern Regions Research Institute, Ethiopia. IIAM, Mozambique project on Linking Farmers to Markets.

**Advanced Research Institutes:** J Six, University of California Davis, USA, NSF project on soil aggregation; R Merckx, Catholic University of Leuven, Belgium, VLIR project on food security in Central Kenya; E Tollens, Catholic University of Leuven, Belgium, DGDC project on legume integration in systems in Central Africa; R Swennen, Catholic University of Leuven, Belgium, DGDC project on banana management in Central Africa; S Recous, INRA, France, VLIR project on food security in Central Kenya; K Giller, WUR, Netherlands, EU project on AfricaNUANCES; L Brussaard, L Stroosnijder, WUR, Netherlands, WOTRO project on soil fauna and soil aggregation; Institut de Recherche pour le Developpement, France, project CORAF/Gomme Arabique on Impact de l’inoculation par les rhizobiums sur la productivite de gommeraies plantees ou naturelles et la dynamique de facteurs lies au fonctionnement biologique des sols sous-jacents; Institut de Recherche pour le Developpement, France, Centre of Ecology and Hydrology, UK University of Norway, project INCO DEV FOREAIM on Bridging restoration and multi-functionality in degraded forest landscape of Eastern Africa and Indian Ocean islands; GSF-Munich, Germany and Institut de Recherche pour le Developpement, France project ANR/MICROBES project on microbial observatories for the management of soil ecosystem services in the tropic; Centre of Ecology and Hydrology and, Scottish Agricultural College UK, project INCO DEV SAFSYS on Symbionts in agroforestry systems: what are the long-term impacts of inoculation of *Calliandra calothyrsus* and its intercrops; BIOFORSK Soil, Water and Environment, Norway; JIRCAS (Japan International Research Center for Agricultural Sciences), Japan; Wye College, University of London (Colin Poulton); Kyoto University, Kyoto, Japan (Atsuyuki Asami); Ishikawa Prefectural University, Japan (Hiroshi Tsuji); University of Kiel, Kiel, Germany (Roll A.E. Mueller); Universite Catholique de Louvain (Eric F. Tollens); Swedish Univ. Agric. Sci (SLU), Uppsala, Sweden (Olof Andrén), University of Natural Resources and Applied Life Sciences (BOKU), Vienna Project on Linking Farmers to Markets.

**International Agricultural Research Centres:** IITA, Uganda, RF project on ISFM for bananas; DGDC project on banana management in Central Africa; IITA, Nigeria (Alene Arega, David Chikoye, Robert Abaidoo); ICIPE and CIMMYT Kenya, DfID project on striga management in the Lake Victoria Basin; CIMMYT, Kenya, AATF project on striga management in Western Kenya; IFDC, Togo, WOTRO project on soil fauna and soil aggregation; INIBAP, Uganda, DGDC project on banana management in Central Africa; ICRAF, Kenya, RF project on soil fertility gradients and site-specific soil fertility management; ICRISAT, Niger; Centre d’Etude Régional pour l’Amélioration de l’Adaptation à la Sécheresse (CERAAS/ISRA); West African Rice Development Authority (Patrick M. Kormawa); African Highlands Initiative, Ethiopia.


**NGOs:** FIPS, Kenya, RF project on soil fertility gradients and site-specific soil fertility management; SACRED-Africa, Kenya, RF soybean project; Diobass and Food for the Hungry, D R Congo, DGDC project on legume integration in systems in Central Africa; DGDC project on banana management in
Central Africa; UR2PI, Congo, ANR/MICROBES project on microbial observatories for the management of soil ecosystem services in the tropic; Hunger Project/Burkina Faso; Groupe d’Action pour le Développement Communautaire (GADEC) ; Tambacounda/Senegal; Union des Groupements Paysans de Mekhe (UGPM/Senegal); Projet Intrants/Niger; Groupement Nabonswendé de Tougouri/Burkina; Entente des Groupements Associés de Toubacouta (EGAT)/Senegal; Caritas-Kaolack/Senegal; AfriAfya (Caroline Nyamai-Kisia); CRS (Tom Remington); Farmers’ Own Trading Company (Tony Margetts) Africa2000 Network, UEEF, Africare (Uganda).

The Private Sector: TSBF-Africa is also working with a wide array of private sector and farmers associations. Some of those involved in Kenya as an example include: Western Seed Company (Kenya) – Saleem Esmail; BIDCO OIL REFINERIES LIMITED (Kenya) – Dileswar Pradhan, Ashish Mandlik; Mukwano Group of Companies (Uganda) – Ibnul Hassan Rizvi; NUTRO MANUFACTURING EPZ LIMITED – Simon Glover; Ebubala Self-Help Group (Shianda Location of Butere Division, Kenya); Tushiauriane Self Help Group (Eluche Sub-location, Kenya); Nabongo Panga Self-Help Group (Matawa Sub-Location, Nabongo Location, Kenya); Jitolee Women Group (Lukohe sublocation, North Marama location, Butere Division, Kenya); Etako Women Group (Lukohe sublocation, North Marama location, Butere Division, Kenya); Bushe Women Group (Butere Division, Kenya); Shishhebu farmers’ Group (Shianda location, Butere Division, Kenya); Mabole farmers’ field school (Shianda location, Butere Division, Kenya); Masaa Men and Women Group; Eluche Mwangaza Community Dev’t Organization (Eluche Sublocation, Mumias Division, Kenya); Uriri farmers’ cooperative society (Migori District, Kenya); Suna farmers’ cooperative society (Migori District, Kenya) AMFRI farms (Uganda), Olivine Industries, Harare, Reapers (Pvt) Ltd, Harare.

TSBF Institute-Latin America

ARIs: CIP, CIAT, IWMI, DIIS (Denmark), GTZ (Germany).

NARS: CORPOICA – La Libertad, Colombia; A. Rincón, R. Valencia, J.J. Rivera, C.J. Escobar; CORPOICA – Macagual, Colombia, C. Escobar; EMBRAPA – Soils, Brasil, H. Coutinho, C. Manzatto, A. de Andrade, A. Ármolo; EMBRAPA – Cerrados, Brasil, J.R. Correia; EMBRAPA – Agrobiologia, Brasil, A. Aquino; EMBRAPA – Cassava and Fruit Crops, A. Vilar Trindade; PROMIC (Bolivia); CEDEPAS (Peru); Dario Maya Botero Foundation (Colombia) CAR (Colombia); Regional Government, Moyobamba (Peru); The aqueduct company of Moyobamba EPSA (Peru); PROMACH (Ecuador); ECOPAR (Ecuador).

NGOs:
CENIPALMA, P.L. Gómez, F. Muneevar.

Specialized Institutions: ETH, Zurich, Switzerland; Prof. E. Frossard, A. Oberson; Agricultural University of Norway, Norway; Prof. B.R. Singh; University of Gottingen, Germany, Prof. N. Claassen University of Freiburg; Prof. E. Wellmann; University of Chile; Prof. M. Pinto; University of Montana, USA, M.Rillig, D.; Cornell University, USA, J.Thies, M.Devare, J.Duxbury, L.Allee, J.Losey; University of California-Davis, USA, J.Six; Universidade Federal Rural de Rio de Janeiro, Brasil, R. Berbara; University of Western Australia, Australia, A. Conacher; Zhejiang University, China, W. Wu; University of Duke, U.S.A. Prof J. Reynolds; University of New Mexico, U.S.A, Jeff Herrick; Colegio de la Frontera Sur, México, Luis García Barrios; North Carololina State University, Jot Smyth.

International Agricultural Research Centers: CATIE, Costa Rica; J. Beer; ICRAF, R.Coe, K. Shepherd; IFDC, USA; D. Friesén; IWMI, Thailand, A. Noble; IRD, J.L. Janeau and C. Prat; FAO-Honduras, C.Paul, L.A. Welchez.
National Universities: Universidad Nacional de Colombia, M. Sánchez de Prager, Juan C. Menjivar, M. Prager, E. Madero; Universidad Nacional de Agricultura, Catacamas, Honduras, J. Reyes and W. Reyes; Escuela Nacional de Ciencias Forestales-ESNACIFOR, Honduras, P. Dubon, Z. Martínez; Centro Universitario Regional del Litoral Atlántico-CURLA, Honduras, Manuel López; Universidad Nacional Agraria de Nicaragua, M. Somarriba, I. Rodríguez, G. Bonilla; Universidad de los Andes (Colombia); Universidad Javeriana (Colombia); University of Florida (USA).

Private sector: CORPOMORTIÑO (Colombia), AGROALIZAL (Colombia), Ford Foundation

Others: FINAGRO (Fondo Nacional de Garantías Agropecuarias)
ANNEX-4: LIST OF PUBLICATIONS

TSBF Institute - Africa

Refereed journal articles

*Journal articles published in 2005*


Journal articles in press

Journal articles in review
Amede, T. and Delve, R.J. 2006. Improved decision making for achieving triple benefits of food security, income and environmental services through modeling cropping systems in Ethiopian Highlands Agricultural Systems (in review).


**Book Chapters**


**Books Edited**


**Articles in conference proceedings**


CSM-BGBD Project in Manaus Brazil, April 2005. Paper to be published in the technical proceedings of the BGBd project annual meeting transactions.


Oral/Poster presentations at conferences


TSBF Institute - Latin America

Refereed journal articles

Journal articles published in 2005


Journal articles published in 2006


Journal articles in press


Journal articles in review


Refereed book chapters


Books Edited

Articles in conference proceedings


Wagatsuma, T., Rao, I.M., Wenzl, P., Khan, M.S.H., Tawaraya, K., Igarashi, K., Murayama, T.,

Oral/Poster presentations at conferences
Ayarza, M.A. and Amézquita, E. 2005. Degradación de los recursos naturales en Centro América: propuestas de métodos para medir su impacto a varias escalas. Symposium organized during the XLX Meeting of the PCCMCA, Programa Cooperativo Centroamericano de Mejoramiento de Cultivos y Animales. Panama City, Panama.


Brachiaria. Invited paper presented at an international workshop on “Advances in improving acid soil adaptation of tropical crops and forages, and management of acid soils” held at Brasilia, Brazil. October 18 to 21, 2005.


ANNEX-5: LIST OF DONORS AND SPECIAL PROJECTS

ACIAR - Australia

Austrian Government (BMF) - Austria

BMZ-GTZ - Germany
- Bean genomics for improved drought tolerance in Central America (2003-2006).

Biocarbon Fund
- Rehabilitation of degraded lands through silvopastoral systems and reforestation of marginal lands in the Caribbean savannas of Colombia - Carbon trading (not research) project (2005-2007).

CIDA bilateral funds - Canada
- Using market-led approaches to drive investments in soil fertility management and improve production and incomes of rural communities in selected areas of the central watershed of Zimbabwe (2004-2005).
- Fuelling economic growth by increasing land productivity with grain legumes in Sub-Saharan Africa: Linking Technical options, technology transfer and market access to empower farmers (2003-2008).

CGIAR
- Payment for Environmental Services (PES) as a mechanism for promoting rural development in the upper watersheds of the tropics (CGIAR, WFCP, GTZ, CONDESAN and DIIS) (2006-2007).

Challenge Program – Water and Food

Challenge Program – Generation

CRC - Colombia
- Ubicación y Medidas de Control de Procesos Erosivos de la Cuenca del Río Cauca (2005).
CTA

CVS - Colombia
- Environmental impact of reforestation (2005).

DGDC - Belgium
- Enhancing the resilience of agro-ecosystems in Central Africa: a strategy to revitalize agriculture through the integration of natural resource management coupled to resilient germplasm and marketing approaches (2005-2007).

DFID - England
- Linking demand for, and supply of, agricultural production and post-harvest information in Uganda. (200-2005).

DGIS – The Netherlands

European Union
- FAO-CIAT project on seed production systems (2004-2006).

GEF - UNEP
- PDF-B: Overcoming land degradation to mitigate deforestation in the humid tropics (2006).

IFAD

IDRC - Canada
- Building teamwork and research capacity for sustainable agricultural development in the dry lands of Africa: The challenge of combining water and nutrients (2004-2006).
- Combining rainwater and nutrient management strategies to increase crop production and prevent soil degradation in the Desert Margins of West Africa (2004-2006).
JIRCAS - Japan

Kellogg Foundation

National Science Foundation - USA
- The interaction between resource quality and aggregate turnover controls ecosystem nitrogen and carbon cycling. (2004-2006).

Norway Government

OPEC (Fund for International Development)
- Increasing efficiency of legume cover crops’ (LCCs) use in selected benchmark sites of Africa (2003-2005).

Rockefeller Foundation
- Banana (2005).
- Valuing within-farm soil fertility gradients to enhance agricultural production and environmental service functions in smallholder farms in East Africa (2004-2006).
- Integrated Soil Productivity Initiative through Research and Education (INSPIRE) Phase Two: Scaling-up and out INSPIRE (awarded to TSBF-CIAT) (2003-2005).

SANREM - CRSP - USA

SDC-ZIL - Switzerland
USAID

VLIR (Flemish Inter-University Council)

WECARD