<table>
<thead>
<tr>
<th>Title</th>
<th>Studies on the Integrated Management of Orobanche Crenata and Seed and Soil Borne Diseases of Faba Bean in Northern Ethiopia</th>
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</thead>
</table>
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| Purpose | This project seeks to improve faba bean production and productivity in northern Ethiopia through an integrated management of *O. crenata* and soil- and seed borne diseases of faba bean. |
| Project Summary | Faba bean (*vicia faba*) production in Tigray, northern Ethiopia, is declining due to the expansion of broomrape (*Orobanche crenata*) infestation and fungal diseases. In the highlands where faba bean may be the only legume cultivated, the absence of this crop from the crop |
rotation cycle will contribute to declining soil fertility. Thus decreases in faba bean production and declining soil fertility will seriously impact household food-security and The proposed project intends to identify lines with better combined resistance to prevailing diseases and Broomrape and study the synergistic effect of resistant lines, rhizobial inoculants and bio-control agents so as to identify the best combination that suppresses diseases and *O.crenata* infection and enhance the productivity of the crop.

<table>
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<tr>
<th>Country and Specific Location(s)</th>
<th>Northern Ethiopia</th>
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<tbody>
<tr>
<td>Participating Institutions</td>
<td>Mekelle University</td>
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<tr>
<td>Start Date</td>
<td>November 2014</td>
</tr>
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<td>End Date</td>
<td>October 2016</td>
</tr>
<tr>
<td>Amount of Funding</td>
<td>USD 65,000</td>
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</tbody>
</table>
Kiros Meles Ayimut (PhD)

Dr. Kiros Meles is an alumni of Addis Ababa University, Alemaya University and University of Jordan with academic training in plant Sciences, Plant Protection and Horticulture (majoring in Plant Pathology). He is currently working as Associate Professor in Plant Protection in the College of Dryland Agriculture and Natural Resources, Mekelle University (Ethiopia). He has been engaged in research for development in the broad fields of Agriculture and Plant Protection. Dr. Kiros provides training and mentorship in Plant Protection at both MSc and PhD level. He previously worked as Director General of the Tigray Agricultural Research Institute (TARI) and as a Senior Researcher in different disciplines including, crop breeding, horticulture, agronomy and plant protection (insect pests, weeds and diseases). He has also worked as a visiting scientist at ETH, Switzerland, and ICARDA and as a consultant at ICARDA on several occasions. Dr. Kiros also worked as Science Coordinator and Environmental Rehabilitation Expert in the Millennium Villages Project in Ethiopia and as Adjunct Associate Research Scientist, The Earth Institute, Columbia University. He has published several articles in peer-reviewed high impact journals and is a member to several professional societies in Ethiopia including the APSE and ESAP. Through these engagements, Dr. Kiros has proficiently worked under multidisciplinary, multicultural and multiracial environments. He has vast experience in working with several stakeholders on aspects of Participatory Research for Development.

Selected publications


Previously funded projects

- 2011 – 2012: The Earth Clinic, Columbia University (Improving the productivity of high pH soils through the use of suitable N sources and rates in Koraro Millennium Villages, Ethiopia. USD 30,000.
