



2001-2011

MAKERERE UNIVERSITY



EVALUATION OF CARNEGIE CORPORATION
OF NEW YORK SUPPORT TO RESEARCH
FOR DEVELOPMENT & HUMAN RESOURCE
CAPACITY BUILDING

This evaluation report was compiled by Matia Kabuye, Senior Economist at the Planning and Development Department, assisted by Nestor Mugabe a research assistant at the Directorate of Research and Graduate Training of Makerere University.

The other members of the Carnegie Ten-Year Support Documentation Team contributed to the design and development of the data collection instrument. They Included the Carnegie Institutional Development Program Desk officer, Maria Nassuna-Musoke, two M&E officers from the Planning & Development Department, i.e. Elizabeth K Bwanga & Florence Nakayiwa Mayega and one member of the Project Implementation Committee, Tito Okumu.

Participants at the Consensus building workshop are acknowledged for their contribution to the improvement of the report.

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UNIVERSITY

Constituent Colleges:

College of Agricultural and Environmental Sciences
College of Business and Management
College of Computing and Information Technology
College of Education and External Studies
College of Engineering, Design, Art and Architecture
College of Health Sciences
College of Humanities and Social Sciences
College of Natural Sciences
College of Veterinary Medicine, Animal Health
and Bio Security

Launched by

H.E. Dr. Gen. Yoweri K. Museveni
President of the Republic of Uganda

and
H.E. Dr. Mwai Kibaki
President of the Republic of Kenya

24th Jan. 2012

1.0 BACKGROUND

The Carnegie Corporation of New York (CCNY) support to research and human resource development at Makerere University came online in 2001 to-date (2011/12). The support to research capacity building worth US\$1.6m was one of the components under the broader Corporation’s institutional support programme Grant No.B 7321.R02. The timing of the support coincided with the period during which the University was striving to strategically reposition herself towards being a research-led University.

Objectives of the Support included:-

- i. Strengthen research management capacity at the University
- ii. Enable more emerging junior academics in the science based faculties at Makerere to complete their doctorate degrees.
- iii. Enhance skills of the senior academic staff in the science-based faculties to conduct and supervise research and also to publish
- iv. Facilitate dissemination of research findings through attendance of conferences and presentation of research papers

Besides actual sponsoring of research and Graduate training of staff at PhD level, the support focus of the first 3-years (2001-2004) was to strengthen the capacity of the School of Graduate Studies (SGS) to manage and coordinate research and also to sponsor actual research component of the training. To consolidate the gains, support was continued in the subsequent phases II (2004-2007) and phase III (2008-2011) for not only PhD. research but also post-doctorate research by staff including Masters training. Figure 1 illustrates the total phased Carnegie Corporation of New York support to research and related activities amounting to US\$1.6m extended over the last 10-year period.

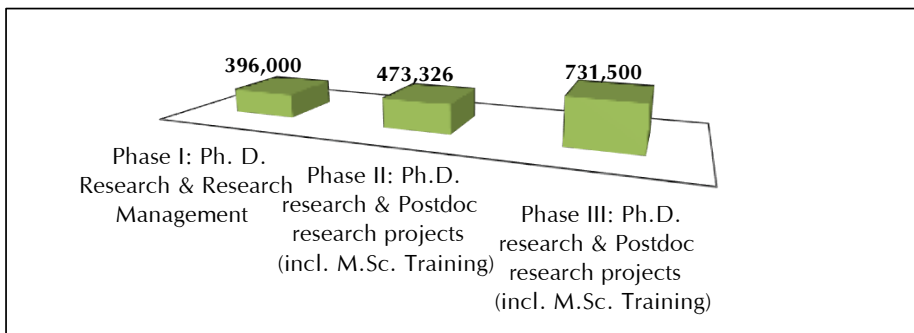


Figure 1: CCNY Funding to Research at Makerere University : 2001/02 – 2011/12(US\$)





2.0

VALUATION OF THE SUPPORT IMPACT

2.1 Introduction

The main purpose of the evaluation is to establish:-

- i) How and to what extent the support had changed the knowledge and delivery skills of staff
- ii) How the added knowledge and skills have been utilized for personal and institutional development
- iii) How the added knowledge and skills have benefited the university in terms of research capacity (both execution and management).
- iv) The impact on research policy at the University and relevant policies at sector and national level
- v) The suggestions for future intervention programmes in terms of design, management of implementation, monitoring and evaluation

Specifically, the evaluation of the impact of research in the Thematic areas of Food, Nutrition and Value addition, was conducted with the major aim of eliciting the value of the research with regard to promoting academic progress of the beneficiaries, contribution to their capacity to deliver content, acquisition of new skills and change of attitude towards teaching, innovation, and/or mentorship, personal development and institutional development, ability of beneficiaries and the University as a whole to contribute to Agricultural productivity, food security, poverty alleviation and improvement of quality of life besides establishing the lessons learnt, spin-offs realised challenges and suggestions for improvement of future interventions.

2.2 Evaluation Approach and Method

This entailed Review of all the documentation right from the initial project proposals, minutes of the implementation committees and monitoring meetings with the researchers and annual performance reports for the Research component in the various phases of the support. Thereafter, Face-to-Face Interviews with the sampled PhD beneficiaries and postdoc researchers were held. These were supplemented with information solicited through questionnaires. The interview responses were captured and analysed using 'Atlas-ti' the qualitative data analysis computer software.

2.3 Target Respondents

The target respondents included the PhD Beneficiaries and the Postdoc Research Grantees. The PhD. beneficiaries were mainly from the Science based academic units, and a total of 54 (35M, 19F) members of staff from various units who were granted scholarships to obtain doctorates in three cohorts/or phases over the 10-years period (2001-2011) as summarized in Figure 2.

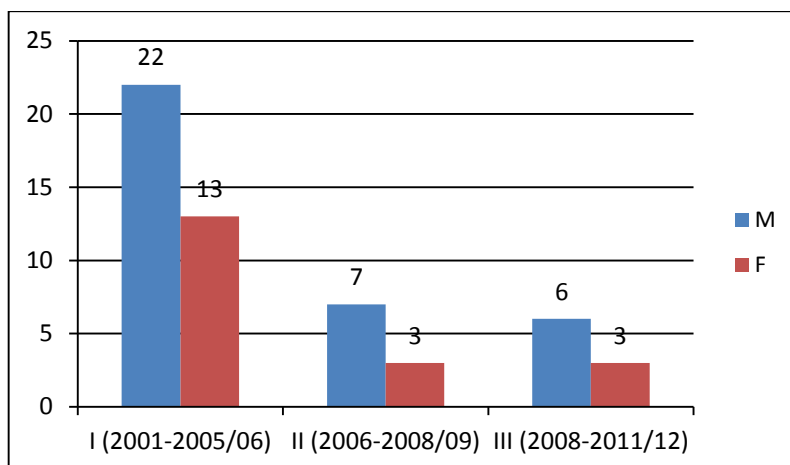


Figure 2: PhD Beneficiaries during phases I, II and III

Besides support for PhD training and research, as summarized in Table 2 and Figure 3, research grant funding was also extended to senior members of (the senior Lecturers and Professors) to undertake research projects on which they had to have graduate – Masters (M.Sc.) students attached whom they also had to supervise as they undertook the research.

Table 1: Postdoc Researchers (2008/09 – 2011/12)

Phase	Postdoc Research Grantees	
	Male	Female
I (2001-2005/06)		
II (2006-2008/09)	3	3
III (2008-2011/12)	5	6
Total	7	11

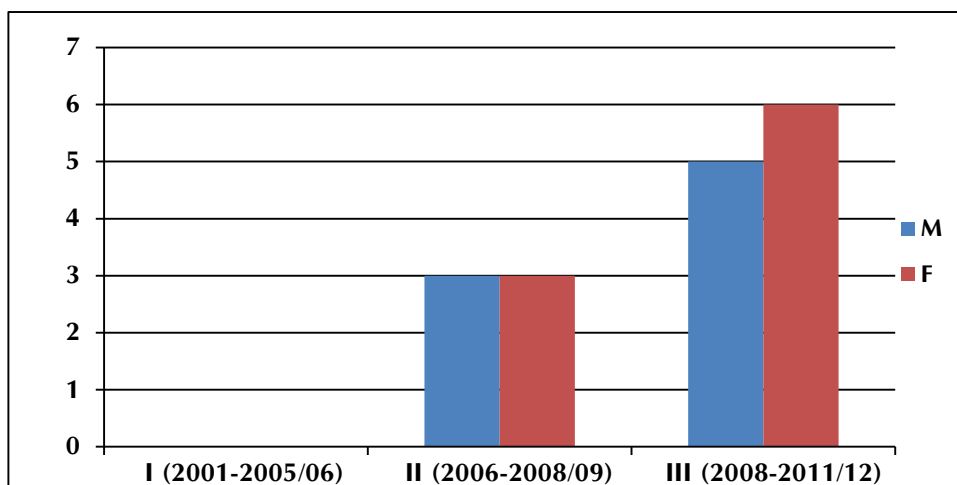


Figure 3: Postdoc Research Grantees



3.0

FINDINGS

3.1 Overview

The evaluation begins with looking into the change in the human resource’s capacity to undertake research, the addition to the institutional strength of staffing at PhD. level, their delivery capacity, the individual and institutional collaborations and networking, synergies in leveraging of resources, the spin-offs being realised after completion the PhD. training and the supported postdoc research projects, institutional relevancy in terms of researches done and how to sustain or build on the momentum initiated.

3.2 Improving Human Resource Capacity at PhD

3.2.1 Training of Beneficiaries at PhD. Level

In Table 3 and Figure 4, it is evident that out of the 54 PhD. beneficiaries had enrolled in eight (8) countries with 36 (66.7%) registered in the home country Uganda at Makerere University. This was followed by South Africa with nine (9) then two (2) in U.K., USA and Kenya with only one(1) in each of the remaining three countries of Tanzania, Austria and Norway.

Table 2: Distribution of PhD beneficiary training locations by Country and Institution

Country	Institution	Phase			Total	
		I	II	III	Number	%
Uganda	Makerere University	21	9	6	36	66.7
South Africa	University of Pretoria	3			3	5.6
	University of Cape Town	2			2	3.7
	Witwatersrand University	2			2	3.7
	University of South Africa	1			1	1.9
	Rhodes University		1		1	1.9
Kenya	Kenyatta University	1			1	1.9
	Kenyatta University of Agriculture & Technology			1	1	1.9
USA	Wisconsin-Madison Law School	1			1	1.9
	University of Minnesota	1			1	1.9
UK	University of Birmingham	1			1	1.9
	Bangor University			1	1	1.9
Norway	Wageningen University			1	1	1.9
Austria	Linz University	1			1	1.9
Tanzania	University of Dar es salaam	1			1	1.9
Total		35	10	9	54	

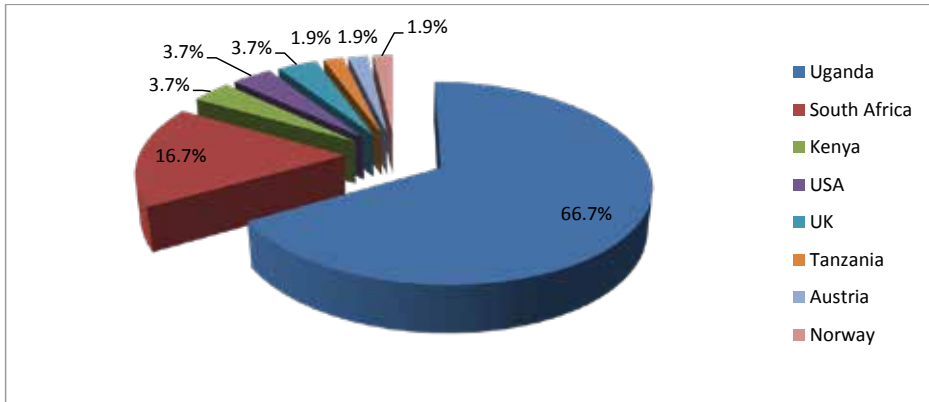


Figure 4: Distribution of PhD. beneficiary training locations by Country

3.2.2 PhD. Beneficiaries' Completion Status

Overall, as summarized in Annex 6, from all the three phases that spanned over the period 2001 up to 2011, a total of forty-one (41)76% out of 54 had completed their studies. Whereas, as summarized in Annex 7, thirteen (13)24% had not completed by the time of concluding the evaluation. Out of those who had not completed, five(5) were from Phase one representing a non-completion rate of 14%; two (2) were from Phase two which is 20% non-completion rate and six (6) were from Phase three representing a 67% non-completion rate. The six (6) PhD. beneficiaries from the grantees of the 3rd Phase (2008-2011) had not completed having got the grants in 2008 and started their studies late in the course of 2008. The allowed duration of doctorate training as a policy at Makerere University ranges between 3 up to 5 years.

Given the fact that those who studied at Makerere were not granted study leave and therefore had to shoulder teaching and related activities although where possible in some of the academic units with lighter teaching loads which according to the responses partly explains why they were not able to complete in the three years of the research support grant.

3.2.3 Institutional Retention of PhD. Beneficiaries by the time of the evaluation

In terms of staff retention, the University had managed to retain 35 (85%) out of the 41PhD holders who had graduated by the time of the evaluation. As noted from the responses and summarised in the Table 4 below, various reasons were given for the departure including non-commensurate terms of service (particularly the low remuneration) and delayed promotions. The latter applied more to those who had completed earlier having been sponsored under Phase one (2001-2004).

On the other hand, the readily availability of opportunities not only in the sister universities in the country and the African region but also with the local private sector as independent consultants, international Organizations such as the UNDP, the World Bank and NGO Projects in the Country and region such as The Hunger Project. The six sponsored members of staff who had left Makerere University with the underlying reasons for their departure are as summarized in Table 4 .

Table 3: Summary of Attrition of PhD. Beneficiaries

Beneficiary Name	Sex	Area of specialization/ Academic Unit & Rank	Reason(s)	Inst./ Organization Joined/ Rank
1. Dr. Bernard Tayebwa	M	Agricultural Economics – Lecturer (2008)	Failed to complete the Course and due to the stringent promotional criteria opted to resign from University service	Private Consultancy - Consultant
2. Dr. Paul Mpuga	M	Economics- Lecturer (2008)	Non-commensurate remuneration & better employment opportunity	World Bank Project based in Nairobi, Kenya - Economist/M & E Officer
3. Dr. Daisy Owomugasho	F	Economics – Lecturer (2008)	Non-commensurate remuneration & better employment opportunity	The Hunger Project Uganda – Country Director
4. Dr. Monica B. Chibita	F	Mass Communication – Senior Lecturer (2012)	Non-commensurate remuneration & better employment opportunity	Uganda Christian University (Mukono)- Associate Professor
5. Dr. Nathan Batungi	M	Surveying – Senior Lecturer (2008)	Retired from Teaching	Estates Dept. of Makerere University- Surveyor
6. Dr. Lee Mark P. Koma	M	Veterinary Surgery & Reproduction – Associate Professor (2008)	Absconded-Non-commensurate remuneration & better employment opportunity/ Dismissed	Not Provided

3.3 Strengthened research and research management capacity

Besides support for PhD. training and research, as summarized in Table 2 and Figure 3, research grant funding was also extended to post-doctorate holders/or senior members of (the senior Lecturers and Professors) to undertake research projects on which they had to have one or two graduate – Masters (M.Sc.) students attached whom they also had to supervise.

3.3.1 Postdoc Research Grantees Completion Status

Fifteen (15) out of the 17 postdoc research grantees (88%) had completed their research projects and the remaining two had finished all the research activities. They had each graduated one of the two M.Sc. students and awaiting the other M.Sc. students to submit their dissertations (see *Annexes 8(a) and 8(b)*). In total, from the graduate student attachments

to the individual research projects, thirty-two (32) M.Sc. holders had been graduated from the 17 research projects. The arrangement indeed turned out to be mutually beneficial to both the staff and students individually through acquisition of practical research execution skills, research supervision skills and more knowledge in the various areas of specialization which has greatly contributed to their professional career growth. The voices expressed in the responses as captured in **Figure 5** are testimony to the above highlighted benefits realised which are gradually beginning to bear fruit in more tangible forms as outlined below.

Research output of the beneficiaries was noted to be picking up as beneficiaries completed their Doctorate studies as per summary figures in **Table 5**. From all the three Phases as summarized in Table 5, a total of 6 Book publications and 10 Book Chapters have so far been authored, 3 Books edited by the beneficiaries, 79 Articles published in refereed Journals, 42 Articles in non-refereed Journals, 27 papers presented at conferences and 10 manuscripts were under review.

Table 4: Summary of Publications produced by the PhD. beneficiaries

	Books		Book Chapters	International/ Local Journals		Papers at Conferences	Manu- script
	Authored	Edited		Refereed	Non-Refereed		
Phase I	5	2	9	59	38	22	10
Phase II	1		1	11	4		
Phase III		1		9	-	5	
Total	6	3	10	79	42	27	10

Out of all these publications, Phase one beneficiaries registered the highest number of publications with five (5) out of the 6 Books published and fifty-eight (59) out the 79 Articles published in the refereed journals, thirty-four (38) out of the 42 articles in non-refereed journals and twenty-nine (22) out of the 27 papers presented at conferences and all manuscripts submitted for review. The detailed authorship and titles of these publications for the PhD. beneficiaries are provided in Annex 3.

From Phase II and III on which there were postdoc research grants, as summarized in Table 6, the beneficiaries, had so far managed move on and also produce One Book publication, 43 Articles published in refereed Journals, 4 papers presented at conferences and 3 manuscripts were under review. The detailed authorship and titles of these publications for the postdoc researchers are provided in Annex 4.

This has greatly contributed towards the attainment of desired goals of a researched University given the increasing research outputs from the researchers. Besides the above research outputs, this is further re-affirmed by the extracts of respondents' expressed opinions as captured in Figure 5.

Table 5: Summary of Publications produced by the Postdoc senior Researchers

	Books		Book Chapters	International/Local Journals		Papers at Conferences	Manuscript
	Authored	Edited		Refereed	Non-Refereed		
Phase II				9		1	1
Phase III	1			34		3	2
Total	1			43		4	3

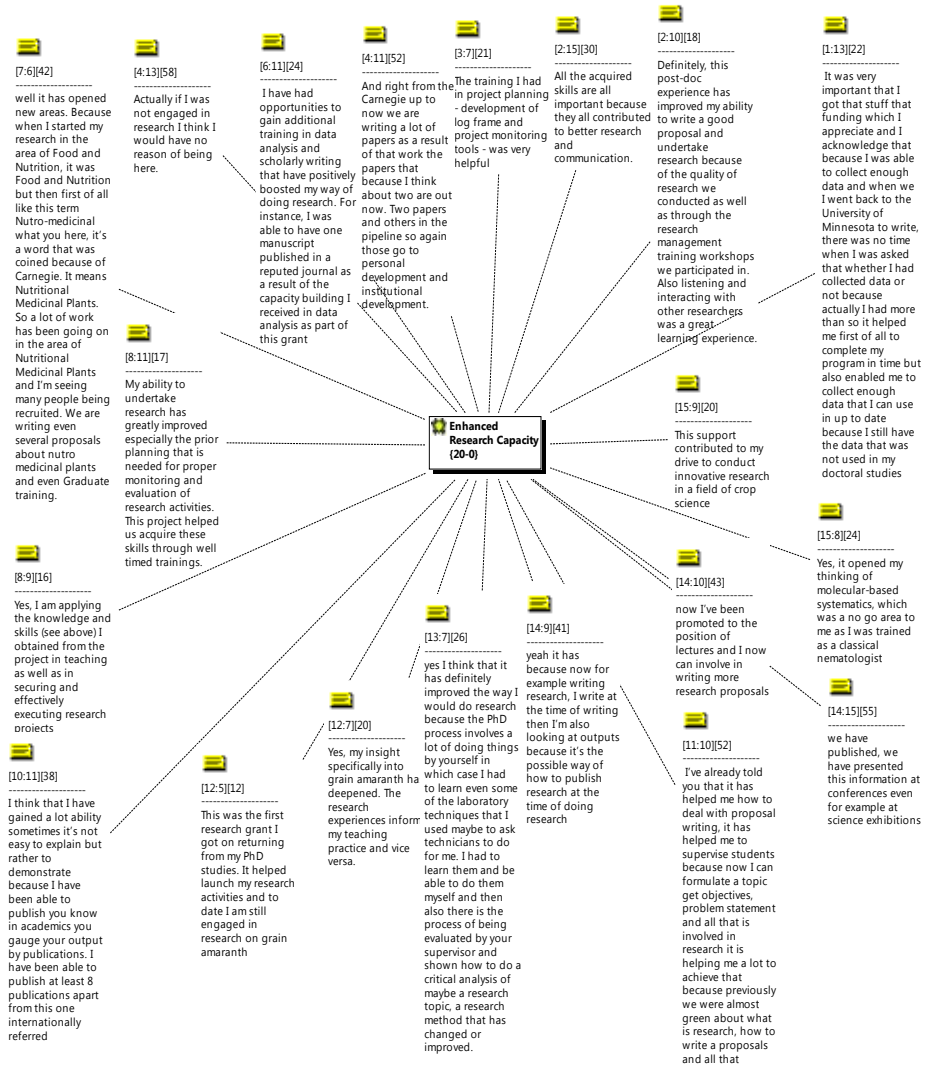


Figure 5: Respondents' expressed Opinions on Enhanced Research Capacity

The implied effect of the enhanced research capacity seems to manifest itself in the respondents' self-claimed growing active engagement in research in their various areas of specialization whether as individual researchers or in research teams. The engagement is both in basic and/or academic and applied geared towards addressing the problems encountered when attempting to add value to food crop produce and also utilizing the wild and medicinal plants. The potential challenge to be faced is the inability to financially sustain /or maintain the momentum initiated among staff involvement in research activities.

3.4 Enhanced human Resource Capacity of the University at PhD. Level

At Makerere University, according to the current Human Resource Management Policy and Manual, having a PhD is the minimum qualification requirement for one to be appointed as a lecturer. Therefore, Carnegie Corporation of New York support came in handy at a time when the University had just effected the PhD policy requirement in the recruitment of academic staff, confirmation and later on promotion.

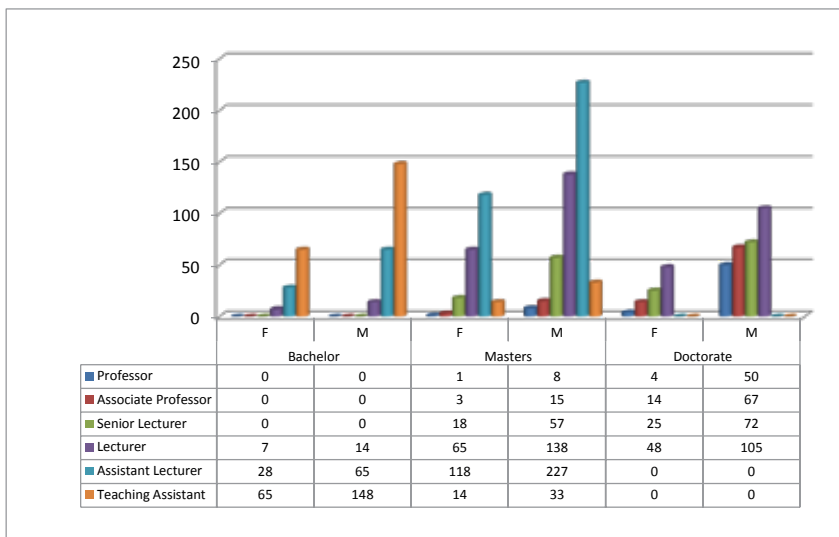
The support boosted PhD. scholarship for members of staff especially for those junior members of staff who were either beginning or/and at the research stage of their doctoral studies. It should also be noted that 24(69%) out of the 35 beneficiaries supported under phase one had stagnated at the both Assistant and Lecturer levels and according to the responses, the support came in timely and saved the situation.

Eighteen (18) 33.3% of the PhD beneficiaries by the time they obtained the scholarships, they had just begun their teaching careers and were at the lower rank of Assistant Lecturer (especially those who were taken on during the 2nd and 3rd phases).

Out of the thirty (30) 55.6% beneficiaries who were at Lecturer level, twenty-four (24) 80% taken on in the first phase(2003/04 -2006/07 had taken long looking out for scholarships and had got stuck at the levels of Assistant Lecturer and Lecturer. These through the long service duration had managed to be promoted to the lecturer level .

It is evident from the above Table 6 that as junior academic staff, the support really motivated them to aim higher and even work harder to complete their studies in order to meet the conditions in the academic promotion criteria. Overall 30(56%) out of the 54 beneficiaries have managed to move up the academic promotional ladder from Lecturer to the level of Senior Lecturer while 18(33%) out of 54 moved from Assistant Lecturer to Lecturer level.

This support together with support from other development partners has since then greatly contributed to the increased number of academic staff with doctorates; especially in the Science based academic units, an additional 54 (35M, 19F) members of staff from various units have been facilitated to obtain doctorates over the 10-years period (2001-2011) (see Table 7 and Figure 3). It is worth noting that the 19Female members of staff holders of PhDs added by the Corporation are part of the current 91 Female PhD holders in the University as compared to 294 Male PhD holders which gives a proportionate percentage of 31% as depicted in Figure 6. (Mak. Fact book, 2010/11).



Source: Mak. Fact book, 2010/11

Figure 6: Profile of Academic Staff by Rank and Qualification (Full Time) – February, 2012

During their study, as captured in from their voices in Figure 7, the respondents reaffirm to have sharpened their teaching/delivery and research skills. This implicitly has improved capacity for not only teaching but also the ability to conduct research at the University while at the same time rendering the badly needed consultancy expertise in the various disciplines and areas of specialization.



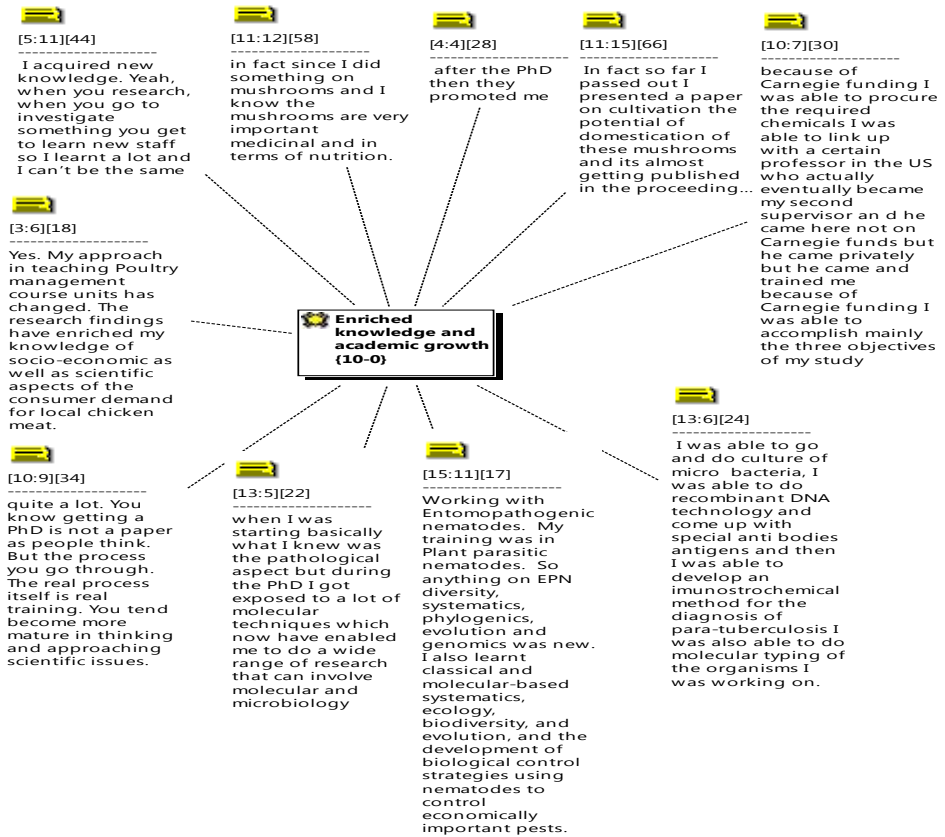


Figure 7: Enriched knowledge and Academic Growth

During their study, from the responses as summarised in Figure 7, the respondents interviewed claimed that the training had enabled them acquire more knowledge in the specific areas and also sharpened their teaching/delivery and research skills. This implicitly improved capacity for not only teaching but also their ability to supervise and conduct research at the University while at the same time rendering the badly needed consultancy expertise in the various disciplines and areas of specialization.

In addition, the organized specialized scientific/or scholarly writing and research methodology trainings of over 150 members of staff in research data management (both qualitative and quantitative) methods, scholarly writing with an embedded peer review, research knowledge dissemination, publishing, research grants management and accountability, have all greatly contributed as evident from the growing research output of the University. This is also manifesting itself in the improving ranking of the University among the top ten on the African Continent. This is also in line with her desired goals of a research-led University. Some of the views of the beneficiaries are as captured in the Figure 8.

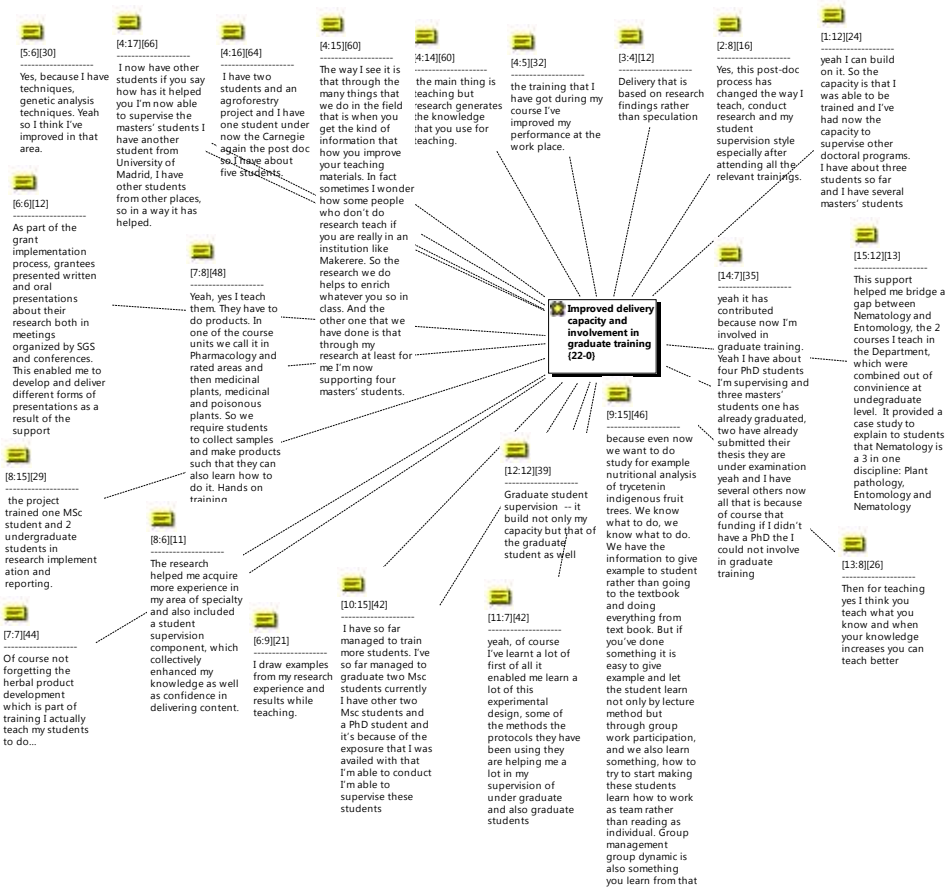


Figure 8: Opinions on Improved Delivery Capacity of staff

Besides the added knowledge, the analytical skills acquired in the course of training by staff, from the responses, the support seems to have significantly impacted on their approach to teaching, conducting of practical sessions and even supervising the students. The key limiting factor for some of the respondents is the unavailability of some of the essential laboratory equipment.

3.5 Enhanced Individual staff academic growth

Much as attainment of a PhD is the minimum requirement for one to be appointed a lecturer, according to the promotional criteria for one to move up the promotional academic ladder, he or she has also to do more research and publish widely in Books and refereed journals. This partly explains the slow pace in upward movement to higher academic ranks of Associate Professor and full Professor.

Table 6: Summary of Promotional Attainments/Growth by the PhD Beneficiaries

Levels Moved	Academic Rank		Phase I		Phase II		Phase III		Total	
	Original	Current	M	F	M	F	M	F	M	F
None	AL	AL		1			3		3	1
One	AL	L	1	3	4	1	2		7	4
None	L	L		1	1	1	1	2	2	4
One	L	SL	16	6	2	1		1	18	8
One	SL	AP	2	1					2	1
Two	L	AP	1	1					1	1
Three	L	P	1						1	
	Total		22	13	7	3	6	3	34	19

As a result, the beneficiaries’ status had changed whereby 5 out of 10 and 2 out of 9 who were Assistant Lecturers at the time they were taken on in the second and third phases respectively to Lecturer. Three outstanding beneficiaries taken on in the first phase managed to wriggle through two to three levels up after meeting the promotional criteria to the levels/ or academic ranks of Associate Professor(2) and Professor (1) as summarized in Table 7. However, 4 beneficiaries had stagnated at Assistant Lecturer level and 6 at Lecturer level who are part of the 13 who were yet to complete by the time of the evaluation.

Besides academic growth, these three PhD. beneficiaries have assumed administrative positions as well as Deputy Deans/Deans and Departmental Heads/or Chairs in their respective schools and Departments. Some of these include Professor Ben K. Twinomugisha now Dean, School of Law, Dr. Maud Kamatenesi who is the Dean of the School of Biological Sciences under the College of Natural Sciences while Dr. Archileo Kaaya and Dr. Gerald Eilu are Acting as Deputy Deans in the College of Agriculture and Environmental Sciences.

3.6 Enhanced Institutional & Individual staff collaborations, partnerships & networking

Owing to the successes realized from the funding from the Carnegie Corporation, a number of donor organizations followed suit hence enabling the University to take advantage of the synergies and leveraging of resource utilization in pursuit of her desired goals. This is evident from the opinions of some of the interviewees as illustrated in Figure 9.

The support has significantly contributed to the building up of collaborative networks in teaching, curricula review, external examining and fellowships, exposure to best practices in the various disciplines and joint research with shared methodological practical experiences given the opportunity to access state of the art and specialized laboratories, conservation of environment through staff working with organizations like NEMA and UNDP among others. Besides, involvement in joint research there appears to be continuing staff collaborations

not only in training, supervision but also external examining among institutions within and outside the African region

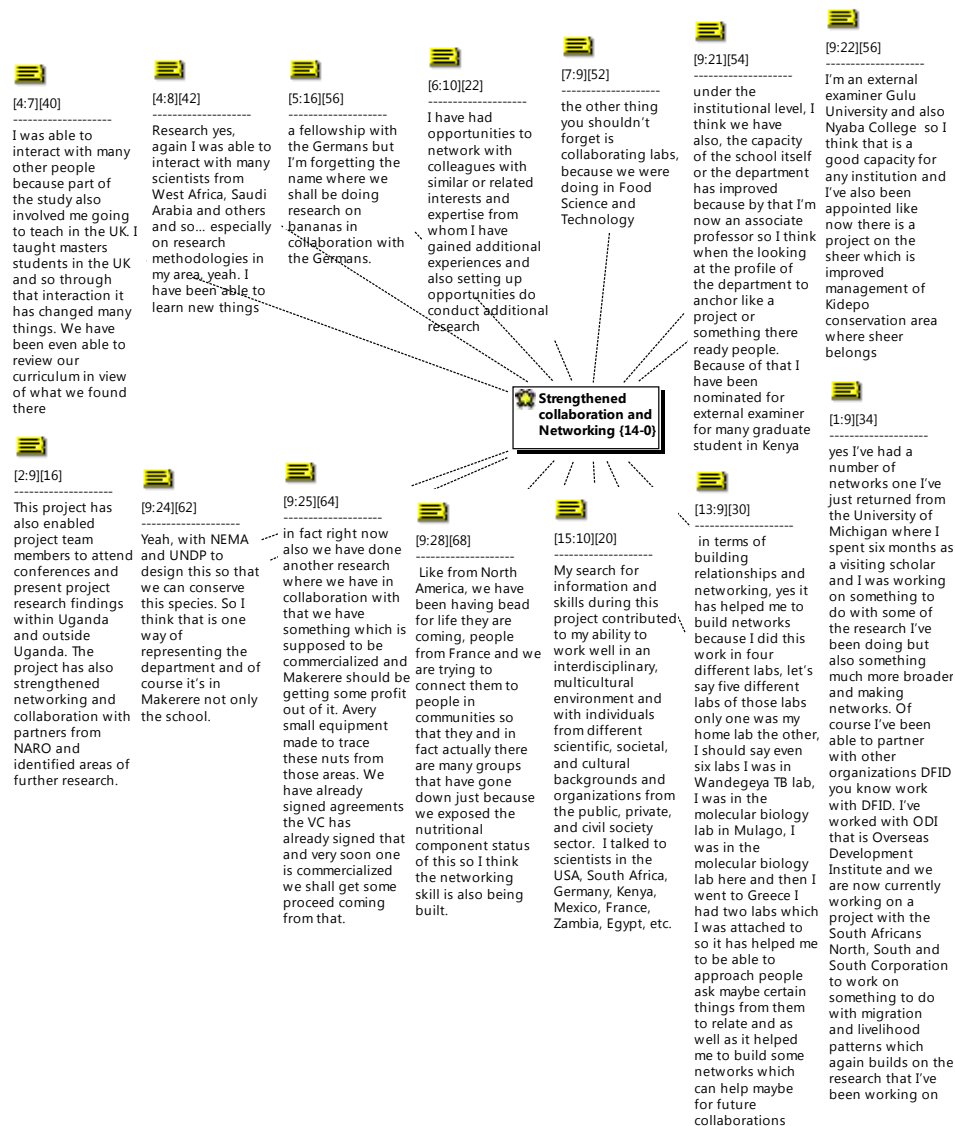


Figure 9: Views on Strengthened Collaboration and Networking

3.7 Synergy in Leveraging of Resources and Spin-Offs

Besides the CCNY, there have been other development partners who have come out strongly to support the University in various areas including building capacity in research and human resource development as summarised in **Annex 5**. Among the top ten (10) development partners to the University, the Swedish Government through Sida/SAREC ha supported and continues to support research for PhD. and Masters attainment, the Norwegian Government is continuing to support research on the same theme of Food Nutrition and value addition, the Rockefeller Foundation and the Word Bank through the @mak programme – research on the decentralized service delivery area, the Norwegian Centre for International Cooperation in Higher Education (SiU) through NUFU – research for PhD. and Masters attainment and the

Bergen-Makerere Universities' collaborative researches which have increased opportunities for carrying out more policy oriented and society problem-solving oriented research besides facilitating staff to attain higher qualifications (masters and doctorates) as evident from the respondents' views captured in Fig 10.

As far as value addition and Food nutrition as emphasised in most of the research projects undertaken with CCNY funding especially in the 2nd and 3rd phases, the findings if carried forward could go a long way in promoting the development of the now predominantly subsistence agriculture as a business through continued working and support to the partnerships initiated with the private sector and farmers in the communities in their various parts of the country.

Among other competitors, Makerere University had won a bigger share from the Millennium Science Initiative (MSI) – the US\$33.35m 'millennium science initiative' line of credit for Uganda provided by The World bank. The Uganda Millennium Science Initiative (MSI) is an important step toward the creation of this stronger national science and technology system. It will provide resources for the expansion of high-quality research and training at both graduate and undergraduate levels; it will emphasize the use of research outputs in the private sector and for social progress; and it will also sponsor activities to strengthen science and technology policy-making and implementation. MSI investments will help the country's universities and research institutes produce more and better-prepared graduates in S&T, and produce more and high-quality research. It will also help firms make better use of S&T knowledge and skills.

As evidence, are the selectively reported innovative projects born out of the funded research undertakings. These include Dr. J.B.L.Okullo's Research on Shea oil. This is a vegetable oil obtained from the seeds of the shea tree (*Vitellaria paradoxa* C.F. Gaertn.). It constitutes an important source of fat in food and cosmetics. Although shea oil can be marketed both locally and internationally, increasing demand worldwide for exportable products calls for their certification. Characterization of shea oil is one step towards developing its certification system. In this study, the physico-chemical characteristics of shea oil in different shea zones of Uganda were assessed. The fact that physico-chemical characteristics of shea oil from the different shea zones of Uganda are comparable to other high value edible vegetable oils indicates its suitability as raw material for food, cosmetic and pharmaceutical products. This characterization is a bench mark for monitoring the quality of shea oil from Uganda and can be used to enhance its local and international trade.

The other innovative project by a team of researchers including Dr. Nakimbugwe and Dr. Bisikwa - two of those initially supported by the corporation (John H. Muyonga, Michael Ugen, Jenipher Bisikwa, Dorothy Nakimbugwe, Dorothy Masinde, Joseph Bbemba and Julius Wambete) that continues to research on "Promoting production and utilization of grain Amaranth for improved Nutrition and Health in Uganda", This 4-year project seeks to promote production and utilization of grain amaranth in Uganda, as a strategy to improve food security, nutrition and household income. The project is aimed at contributing to the improvement of livelihoods of resource poor communities in Uganda through increased agricultural production of grain amaranth, increased consumption of grain amaranth and amaranth products as well as introduction of value added products.

Attainment of all these benefits, amidst challenges according to the responses has been a joint effort but with concerted effort of the leadership and support of the Directorate of Research & Graduate Training as a coordinating unit for not only CCNY but also in charge of the Swedish support towards capacity building in research and human resource development.

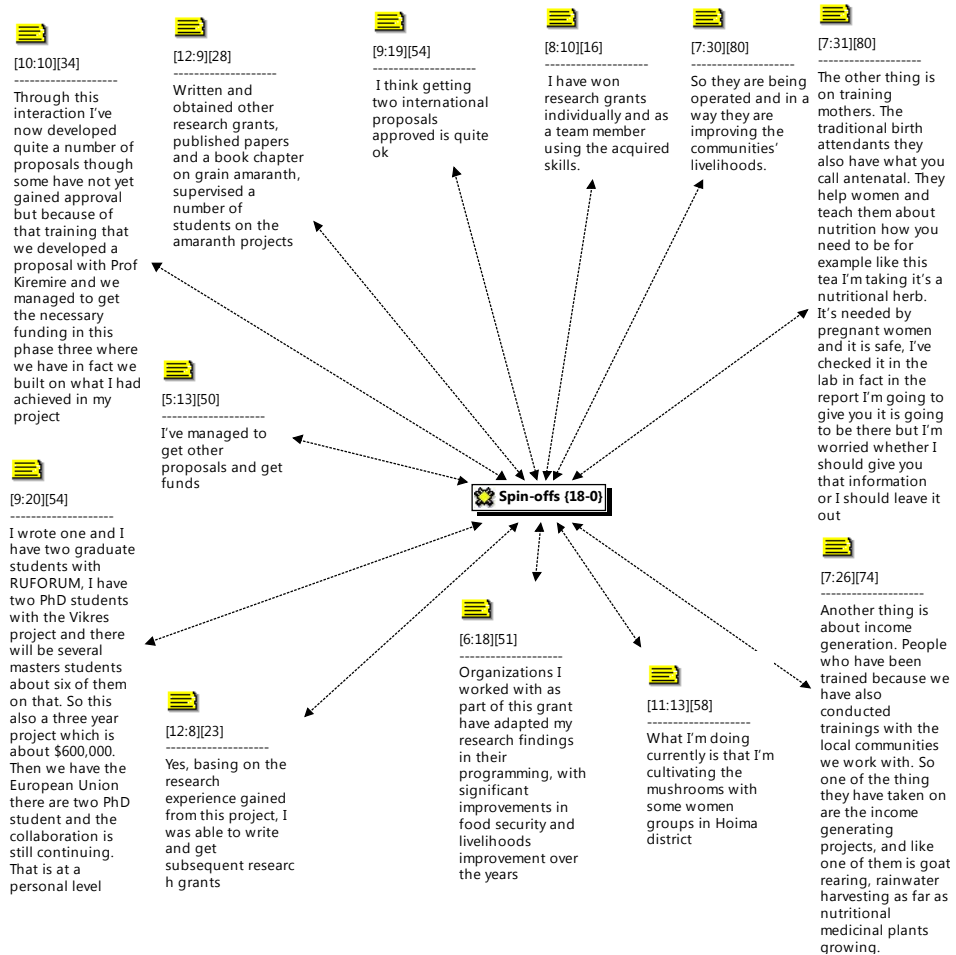


Figure 10: Spin-offs Realised

Three beneficiaries reported to have gone ahead to write other research grant winning proposals. Either as individuals or in teams, the respondents confirmed it that the training and the research experience gained from the Corporation's research support grant had indeed strengthened their capacity in writing of research grant-winning proposals, execution of research, publication and dissemination of research findings through conferences. Those who were able to disclose that they had actually won other research grants were as summarized in Table 8.

Table 7: Other Research Grants Won by PhD. & Postdoc Research Grant Beneficiaries

Grantee	Research Project /Title/ Area	Amount	Grantor/Funding Body
Dr. A.N. Kaaya- a PhD. beneficiary	Won a 2-year research grant on the theme of Food, Nutrition and Value addition – project titled ‘Improving the quality of Maize flour through reduction of Aflatoxins	US\$26,000 (2006-2009)	Norwegian Government support to Makerere University -Phase II (2005-2012)
Dr. Maud Kamatenesi– a Postdoc research grantee	Won a 2-year research grant under Norwegian Government support Phase II researching on the theme of Food, Nutrition and Value addition – project titled ‘Integration of Medicinal Plants as nutritional supplements in healthcare delivery in Uganda’.	US\$30,000 (2008-2011)	Norwegian Government support to Makerere University -Phase II (2005-2012)
Dr. Maud Kamatenesi– a Postdoc research grantee	Research project on “Integration of Nutri-Medicinal Plants as therapeutics in Health Care delivery in Uganda.”	Not disclosed	SIDA/SAREC
Professor Bernard T. Kiremire– a Postdoc research grantee	Characterisation of pesticide residues in biota, sediments and water of lake Victoria	SEK643,332 (2009)	SIDA/SAREC
Professor Bernard T. Kiremire– a Postdoc research grantee	Characterisation of pesticide residues in biota, sediments and water of lake Victoria	SEK1,350,000 (2006-2009)	IPICS
Dr.Euzobia Mugisha Baine – a PhD. beneficiary	Won a one year research grant on the theme of Food, Nutrition and Value addition – project titled ‘Gender Mainstreaming in Universities in Uganda: An Exploration	US\$14,275 (2008-2011)	Norwegian Government support to Makerere University -Phase II (2005-2012)

3.8 Contribution towards Institutional Relevancy and Sustainability

Nationally, the research projects undertaken are expected to help to indirectly fill policy knowledge gaps and practice where they exist, and occasionally provide solutions to pressing problems of society especially in the area of Food, Nutrition and Value Addition. This is evident from the responses (see Figure 11) where investigations focused on measures to improve food security through promoting of better yielding varieties, safe handling of agricultural produce (particularly the food Crops such as Groundnuts and Maize), adding value and quality assurance and above all ensuring of practicing sustainable agriculture with increasing productivity vital for food security. The University admittedly has a key role to play. A number of the research projects undertaken involved working with communities under the theme of Food, Nutrition & Value Addition for livelihood improvement. This is demonstrated from the researchers’ interaction with farmers growing/or domesticating wild tropical medicinal plants and Trees such as the now being conserved Shea Butter Tree researched on by Dr. J.B.L. Okullo and Kamatesi’s research on medicinal plants. Hopefully, the research capacity built at the University will attract more funding to research projects which are designed to address sector specific and society problems.

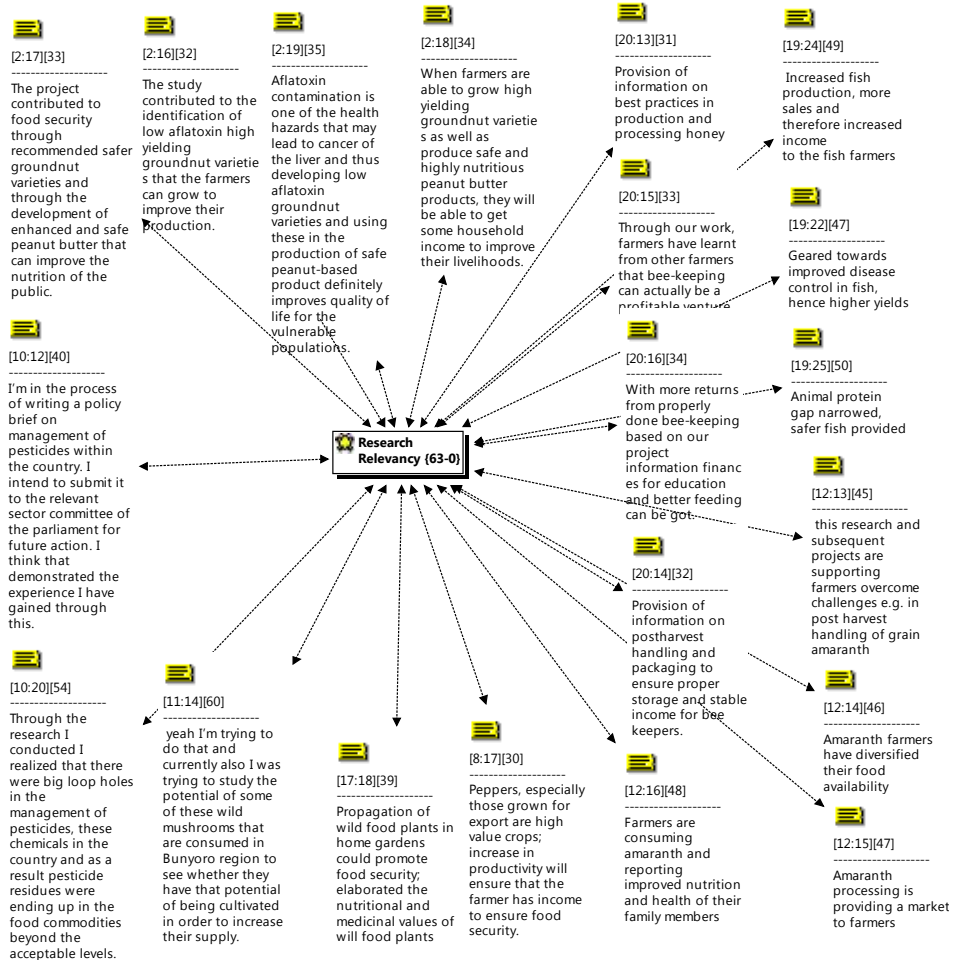


Figure 11: Relevancy of Research and Sustainability

3.9 Challenges

The main challenges as highlighted in Figure 12 include the inadequate funding for a PhD, delays in disbursement, lengthy procurement and accountability procedures. This points to the strictness in the University's internal financial control systems which partly contributed to the successful implementation of the programme.



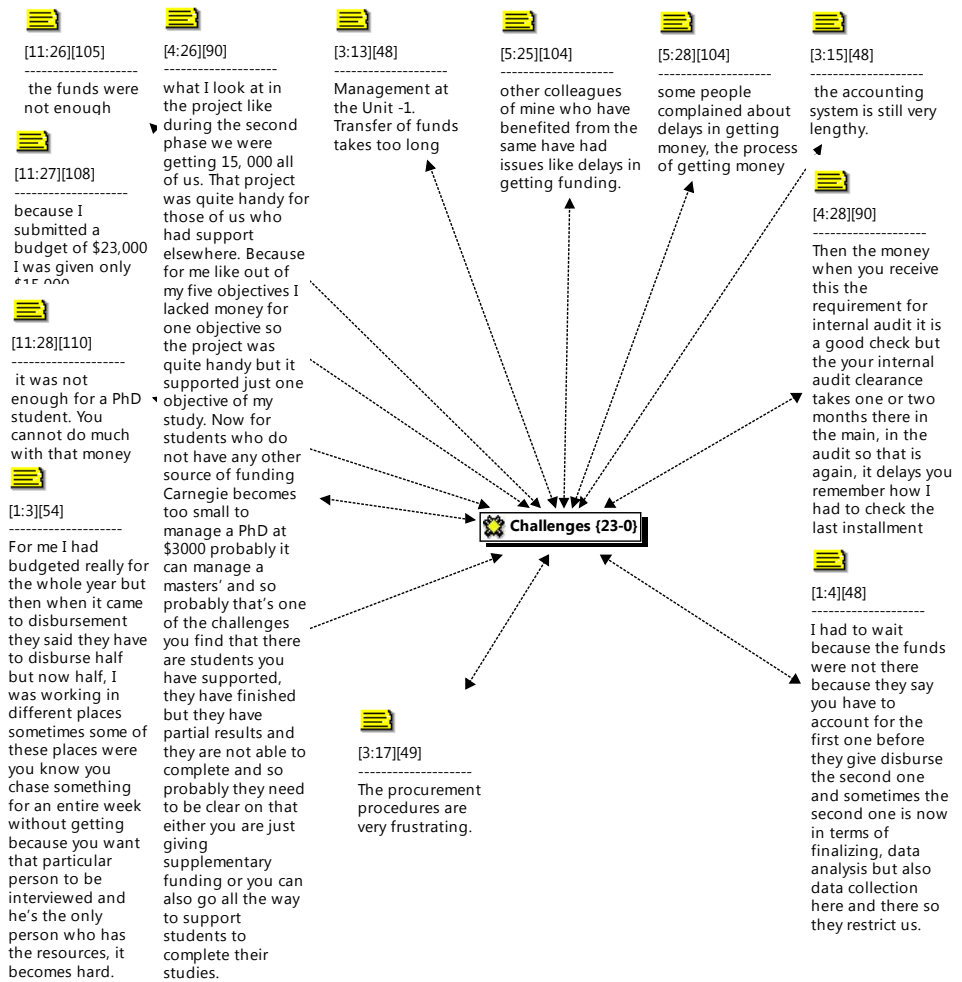


Figure 12: Challenges

3.10 Programme Design and Management

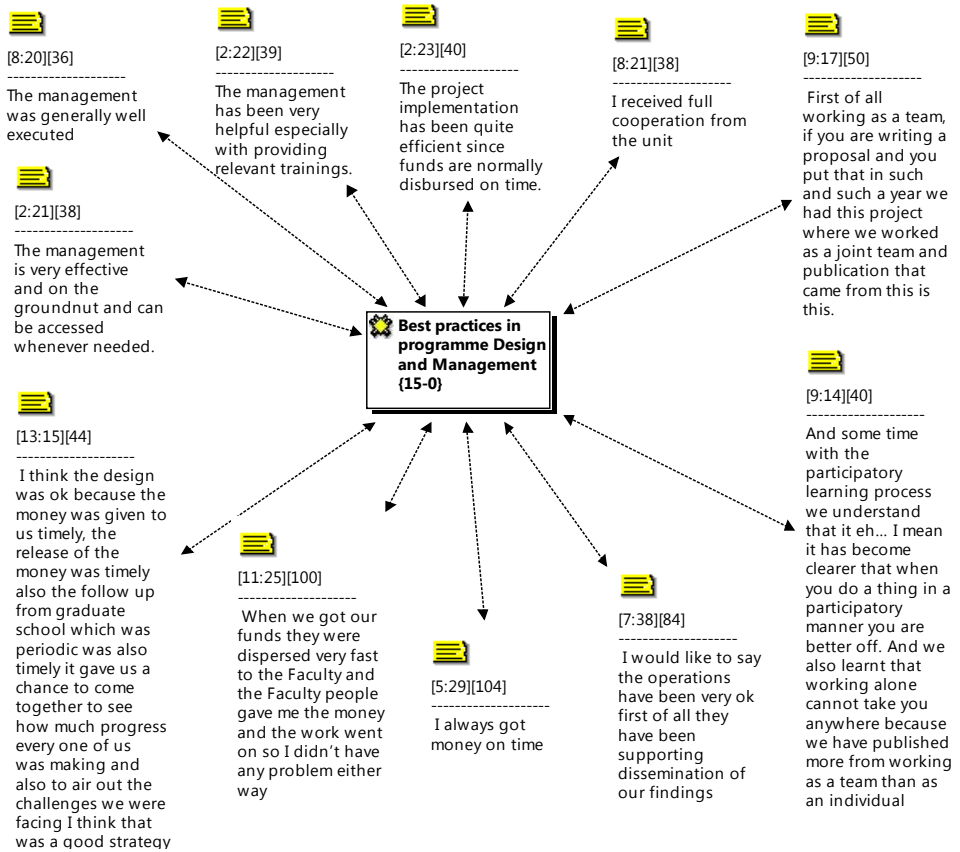


Figure 13: Best Practices in Programme Design and Management

As far as best practices are concerned, summarized in Figure 13 are the responses regarding the research programme component design and management by the then School of Graduate Studies (now transformed into a Directorate of Research and Graduate Training) which were very much appreciated despite the challenges. Encouragement of team-work and sharing of experiences through regular monitoring meetings were very instrumental in keeping the researchers and PhD candidates on track. The requirement for timely reporting of progress by the researchers and service delivery/or response by coordinating units particularly in disbursement of funds was commendable.



3.11 Suggested Improvements in Future Programme Interventions

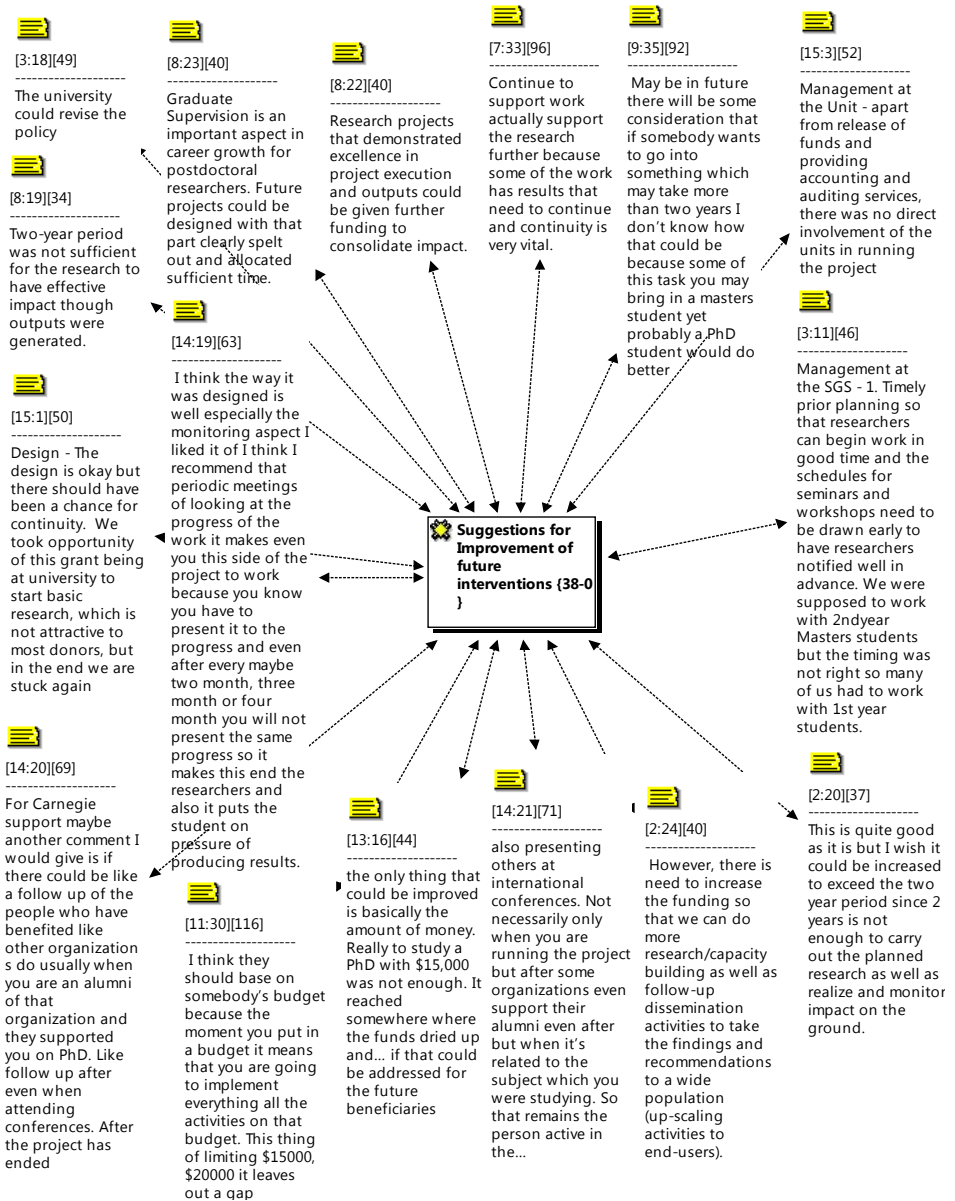


Figure 14: Suggestions for improvement of future Interventions

From the responses highlighted in Figure 14, it is evident that due to unforeseen eventualities and factors beyond control of implementers, the duration not only for the programme but also the individual PhD training and Research projects needs to be realistically projected at programme design. The University needs to revise the research policy which was found to be lacking in some areas which could be constraining research advancement in the University as recommended in the on-going administrative and research management reform process. The review could consider decentralizing a bigger proportion of the research management (including financial control and accountability) to the respective researchers' Schools in the

Colleges. This is expected to speed up the implementation especially with regard to allowing flexibility in timing of field-based researches much affected by seasonal changes.

Future intervention programmes should be designed with reasonably adequate funding provisions for not only graduate supervision but also with increased funding to the execution of individual research projects especially as far as training at PhD. is concerned. The equivalent of between US\$30,000 – 50,000 is currently deemed to be adequate to facilitate a PhD. student to complete the studies and research related activities depending on the area of specialization. For the natural sciences, a 4-year full-time Doctorate student can be granted up to a maximum of the equivalent of US\$50,000 while candidates in the humanities are granted up to a maximum of the equivalent of US\$30,000. This is the range within which the current structure used for the on-going Sida/SAREC PhD. Scholarships are awarded. That the most important issue is have an in-built flexibility mechanism that allows review of budgets within the overall research support grant given the medium to long term nature of the scientific research activities involved.

There was also need to further facilitate PhD. beneficiaries beyond completion of research execution through dissemination to publication in internationally recognized journals. Researchers with finding to disseminate are being facilitated from different funding sources including the internally generated funds to present papers at conferences both within the country, region and those internationally organized. Besides, the Directorate of Research & Graduate Training (DR>) – the former School of Graduate Studies (SGS) has also established an Intellectual Property Rights (IPR) Unit which is poised to assist researchers with modalities of commercializing their researched technological innovations. A number of the research outputs have intrinsic economic value (in terms of potential to generate income and technology appropriateness) and they could be more beneficial to the local communities. Therefore, for continuity and sustainability purposes as a poverty alleviation tool, further funding could be sought by the University to consolidate on the work initiated by the supported research projects. Some of these have the potential to turn out to be more productive community-based development projects especially as far as value addition to the agricultural produce in an agriculturally dependent economy in concerned.

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CONCLUSION AND
RECOMMENDATIONS

As far as eliciting the value change that can be attributed to the support intervention to research at Makerere University is concerned, it clear from the research outputs realized and voice responses and observations as captured that significant changes have been registered. This is evident from the 41 so far added staff with doctorates, the growing research publications which outcome certainly is not entirely attributed to the CCNY support but a result of a joint effort. Indirectly these positive achievements seem to be contributing to the improving ranking of the University through growing capacity to research and publish among other services.

With the added knowledge and skills acquired by the beneficiaries, the improvements in professional competence is gradually being demonstrated in academic growth in ranks through promotions, added responsibilities, and the improved capacity to deliver content as expressed in the responses and changed attitude towards teaching, innovation, and/or mentorship, personal development and institutional development. These developments are manifesting in the emerging transformations, reforms in university governance and development initiatives which have attracted more attention of key stakeholders including the Government of Uganda that has come in strongly to support the University with particular emphasis to the science-based Colleges, Schools/Institutes and Departments. The additional funding amounting to US\$20bn per financial year (effective from FY2011/12) provided by Government through the Presidential Initiative for the next 5-years to the Science-based Units (including the College of Engineering Design Art & Technology (CEDAT)- towards the Kiira EV Transportation Project, College of Agriculture and Environmental Sciences (CAES) – to the School of Food Technology and Bio-Engineering – towards the Food Bio-Technology Incubation Centre, College of Veterinary Medicine, Animal Resources and Bio-Security (COVAB). This move is gradually propelling the University as a whole to significantly and ably play her role in contributing to the improvement of Agricultural productivity, food security, poverty alleviation and improvement of quality of life.

The main lesson learnt is the fact that targeted support can be very beneficial with both tangible and intangible benefits which may only be realised in the medium to long-term. Future interventions need to be designed along the same institutional arrangement.

The benefits also come with challenges because given the resource limitations to afford better remuneration commensurate with what is offered to professionals at that level, what the University is grappling with among others is mainly how to retain the highly qualified and experienced staff after their attainment of doctorates given their high demand not only by Universities within Uganda but also in the African region and beyond. The retention problem is real as evident from the six (6) PhD. beneficiaries who have already left the University service besides those who are retiring. The on-going programme still supported by the CCNY for grooming the Next Generation of African Academics (NGAA) is a noble forward looking move in the right direction if we are to have sustainable and quality provision of higher education world-wide.



5.0

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5. *Makerere University Research Manual, 2011.*
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7. *Makerere University Strategic Plan (2008/09 – 2018/19)*
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5.0

ANNEXES

ANNEX 1 Interview schedule for beneficiaries (PhD & Post-Doc grantees)

1. (a) Name: ----- (b) Gender:-----
2. Department:-----
3. School: -----
4. College: -----
5. Title of Research Project/Area:-----
6. (a) Start date:----- (b) Completion date:-----
7. What was your position/academic status/rank at the time you received Carnegie funding?

8. What is your current position/Designation in the University? -----
9.
 - a) In which way has the support contributed to your capacity to deliver content? Please Explain.

 - b) Which new skills did you acquire through this engagement?

c) Do you think that your engagement (PhD/Post-doc process) has changed way you teach and /or conduct research? Please elaborate on your response. .

d) (a) Has the support improved your ability to undertake research? Pleas elaborate on your response

10. How have you put to use the skills acquired through the research for:

a) Personal development- please explain

b) Institutional development- please explain

11. (a)What additional skills did you acquire through the programme?

(b) Which was the most important? Why?

(c) Which was the least important? Why?

12. In your opinion, in what way has your engagement in the research on Food Nutrition & Value Addition contributed to (in each case elaborate by giving concrete examples):

(a) Agricultural productivity?

(b) Food Security?

(c) Poverty alleviation?

(d) Improvement of quality of life?

13. Suggest ways of improving the programme in terms of:

(a) Design

(b) Management at the SGS

(c) Management at the Unit

(d) Research project implementation

THANK YOU

ANNEX 2 Ph.D. beneficiaries (Phases I to III: 2001-2011)

Annex 2a Phase I Ph.D. Beneficiaries (2001-2004)

Faculty/Dept.	Project No.	Researcher	Project Title	University where Registered
1 Agriculture	Carnegie/Mak/2002/0001	Mr. B. Tayebwa	The Determinants of Rural Household Food Security in the Montane Farming System of South-western Uganda.	Makerere University
2 Agriculture	Carnegie/Mak/2002/0003	Mr. L. Kasisira	Modelling Soil Failure for Subsoilers in Tandem.	University of Pretoria
3 Agriculture	Carnegie/Mak/2002/0004	Ms. E. Balirwa	Regional Comparative Advantage and Competitiveness of Dairy Systems in Uganda.	Makerere University
4 Agriculture	Carnegie/Mak/2002/0005	Mrs Magala-Nyago	The Nutritional Quality Feeding Value of Malted and Extruded Finger Millet based weaning Foods.	Kenyatta University
5 Agriculture	Carnegie/Mak/2004/0020	Mr. Archilleo N. Kaaya	Isolation and Identification of Fungi and Aflatoxins Associated with Harvested Maize in Uganda.	Makerere University
6 Agriculture	Carnegie/Mak/2004/0026	Ms. Dorothy Nakimbugwe	Enzymatic Extraction and Preservation on Banana Juice.	Makerere
7 Agriculture	Carnegie/Mak/2004/0030	Mr. P. Tukamuhabwa	Inheritance of Resistance to Soyabean Rust: Phako-psava Panchyrliza)	Makerere
8 School of Education	Carnegie/Mak/2002/0002	Mr. C. Nsookwa	Metaphorical Implications of Kiswahili and Luganda Proverbs.	Makerere University
9 School of Education	Carnegie/Mak/2002/0029	Mr. Fred E.K. Bakabulindi	Same Social Correlates of Innovations Diffusion/Adaptation in an Organisation: The case of ICT in Makerere University.	Makerere

10	School of Education	Carnegie/Mak/2004/0031	Mrs. E. Mugisha Baine	Gender and Teacher Education Responses to changes.	Birmingham
11	Faculty of Law	Carnegie/Mak/2003/0007	Mr. Ben Twinomugisha	Protection of Poor Women's Rights to Maternal Health Care in Uganda: The Case of Kashamba Sub-County, Kabale District.	Makerere University
12	Faculty of Law	Carnegie/Mak/2004/0027	Ms. D. Naggita Musoke	The State and Law: The Case for the Protection of Persons with Disabilities in Uganda.	Wisconsin-Modison Law School
13	Faculty of Veterinary Medicine	Carnegie/Mak/2003/0008	Dr. L.M.P. Koma	The Doppler Haemodynamic Characteristics of Abdominal Parenchymal Organs in the Dogs.	University of Pretoria
14	Faculty of Veterinary Medicine	Carnegie/Mak/2003/0009	Dr. Ann Nanteza	Onchocerca Volvulus: Clanning and Characterization of CDNA Exceeding the Putative Vesicular Acetylcholine Neurotransmitter Transporter Protein.	Makerere University
15	Faculty of Science	Carnegie/Mak/2003/0010	Mr. Juma Kasozi	Ruin and Optimal Control in An Insurance Portfolio that Earns Returns on Investigation.	Makerere University
16	Faculty of Science	Carnegie/Mak/2003/0015	Mr. Michael Owor	An Environmental Geohydrologic Evaluation of the Lake George Wetlands as a Natural Barrier Against the Migration of Heavy Metals Derived from the Kilembe Copper Mines.	Makerere University
17	Faculty of Science	Carnegie/Mak/2004/0021	Mr. John Wasswa	Characterization of selected Pesticide Residues in Lake Victoria Sediments.	Makerere
18	Makerere University Institute of Public Health	Carnegie/Mak/2003/0011	Mr. Oryem-Lalobo	Randomised RDT Trial in Home Management of Endemic Malaria in Bugiri District in Uganda.	Makerere University
19	Faculty of Social Sciences	Carnegie/Mak/2003/0012	Mr. Paul Mpuga	Estimation of Demand for Rural Financial services in Uganda.	Linz University Austria

20	Faculty of Social Sciences	Carnegie/Mak/2004/0018	Mr. Andrew Elias State	A Comparative Study of Rural Social Capital Networks and Livelihood Patterns and Strategies in Kyenjojo, Kibaale and Bushenyi District, Uganda.	Minnesota
21	Faculty of Social Sciences	Carnegie/Mak/2004/0019	Mrs. Florence Kyoheirwe Muhanguzi	Exploring the Discourse of Gender Dynamics in Sexuality Education in Uganda's Secondary Schools: Opportunities and Challenges.	Cape Town University
22	Faculty of Social Sciences	Carnegie/Mak/2004/0023	Ms. Florence Akiiki Asimwe	Gender Dynamics in Home Ownership.	Makerere University
23	Faculty of Social Sciences	Carnegie/Mak/2004/0032	Mrs. Doris Muhwezi Kakuu	HIV/AIDS Education and Rural livelihoods: Gender Disparities in UPE in Uganda.	Makerere
24	Faculty of Technology	Carnegie/Mak/2003/0013	Eng. L. Kaluuba	A Comparative Analysis of the Potential of Robust Coding Schemes in Emerging Wireless Technologies.	Makerere
25	Faculty of Technology	Carnegie/Mak/2003/0016	Mr. Nathan Batungi	Developing a Methodology for Registration of Customary Land Rights in Developing Countries: A case study of Uganda.	Pretoria University
26	Faculty of Technology	Carnegie/Mak/2004/0034	Ms. Doreen Kyosimire	Analysis of Special Transformation in Low and Medium Income Rental Housing in Uganda.	Makerere
27	Institute of Statistics & Applied Economics	Carnegie/Mak/2003/0014	Mr. F. Tumwine	The Impact of Urbanization on Marriage Patterns in Lake Victoria Crescent 1960 – 2002.	Makerere University
28	Makerere University Institute of Psychology	Carnegie/Mak/2004/0017	Mr. Julius Fred Kikooma	Culture and Entrepreneurship in Uganda: An Action Research into the Interface.	Cape Town University
29	Makerere University Institute of Psychology	Carnegie/Mak/2004/0025	Ms. Grace Kibanja	Cultural Psychological and Gender Dimensions in Traditional and Business Negotiations.	Makerere
30	MTSIFA	Carnegie/Mak/2004/0022	Mr. Angelo A. Kakande	Contemporary Art in Uganda: A Nexus Between Art and Politics.	Witwatersrand Johannesburg

31	Faculty of Arts	Carnegie/Mak/2004/0024	Ms. Monica Chibita	Indigenous Language Broadcasting and Citizen Participation in Uganda Broadcasting: An Exploring Study.	Witwatersrand
32	Faculty of Economics and Management	Carnegie/Mak/2004/0028	Ms. Daisy Owomugasho	The Effects of Decentralised Planning and Budgeting on Social Welfare in Uganda.	Makerere
33	Faculty of Economics and Management	Carnegie/Mak/2004/0033	Mr. Eria Hasali	Foreign Exchange Market Efficiency and Central Bank Intervention Policy: Uganda's Experience.	Makerere
34	Faculty of Economics and Management	Carnegie/Mak/2004/0036	Mr. Yawe L. Bruno	Hospital Efficiency in Uganda: An Application of DEA and TOBIT Analysis.	Dar-es-laam
35	EASLIS	Carnegie/Mak/2004/0035	Mr. C. Obura Okello	Commercial Information System Design for Uganda's Economic Development: The Case of Northern Uganda.	UNISA

Annex 2b Phase II PhD beneficiaries (2004-2007)

	Faculty/Dept.	Project No.	Researcher	Project Title	University where Registered
1	Faculty of Agriculture	Carnegie/Mak/2006/0036	Mr. Atukwase Abel	Investigating the occurrence of fusarium and subsequent fumonisin contamination of stored maize in Uganda	Makerere University
2	Faculty of Agriculture	Carnegie/Mak/2006/0037	Mr. Gaston Ampek Tumuhimbe	Potential of processing orange fleshed sweet potatoes into a variety of products in increasing vitamin a intake in Uganda	Makerere University
3	Faculty of Agriculture	Carnegie/Mak/2006/0041	Mr. Hedwig Acham	Nutrition, health and learning achievement: a case study of primary school children in Kumi district.	Makerere University

4	Faculty of Veterinary Medicine	Carnegie/Mak/2006/0038	Dr. Nakalembe Immaculate	Medical and nutritional value of indigenous wild mushrooms of south-western Uganda	Makerere University
5	Faculty of Veterinary Medicine	Carnegie/Mak/2006/0039	Dr. John Katerrega	Effects of conventional and olecular adjuvants on the humoral immune response to congopain	Makerere University
6	Faculty of Veterinary Medicine	Carnegie/Mak/2006/0043	Dr. Okuni Julius Boniface	Molecular and pathologic diagnosis of paratuberculosis in cattle from selected districts in Uganda.	Makerere University
7	Faculty of Veterinary Medicine	Carnegie/Mak/2006/0044	Dr. Naigaga Irene	Use of bioindicators and biomarkers to assess aquatic environmental contamination in selected wetlands receiving urban runoff in Uganda	Rhodes University, South Africa
8	Faculty of Forestry and Nature Conservation	Carnegie/Mak/2006/0040	Mr. Tumwebaze Balaba Susan	Comparative study of social carbon sequestration potential under boundary agroforestry system in Uganda	Makerere University
9	Faculty of Forestry and Nature Conservation	Carnegie/Mak/2006/0045	Mr. Zziwa Ahamada	Derivation of strength parameters of selected tree species used for construction in Uganda and modelling behaviour of selected structural elements	Makerere University
10	Faculty of Science	Carnegie/Mak/2006/0042	Mr. Byamukaa Robert	Spectroscopic analysis of anthocyanins selected plant species in Uganda	Makerere University

Annex 2c PHASE III PhD Beneficiaries

	Faculty/Dept.	Project No.	Researcher	Project Title	University where Registered
1	Faculty of Agriculture	Carnegie/Mak/2008/0052	Sewanyana Collins	Urban solid waste digestion for green energy and agriculture – options for wealth creation	Makerere University

2	Faculty of Agriculture	Carnegie/ Mak/2008/0053	Wanyama David	Efficacy of watermelon plant chemical extracts as biological herbicides for sustainable agriculture	Jomo Kenyatta University of Agriculture and Technology
3	Faculty of Agriculture	Carnegie/ Mak/2008/0054	Sseguya Haroon	Impact of social capital on Food Security in South East Uganda	Makerere University
4	Faculty of Agriculture	Carnegie/ Mak/2008/0055	Tumuhairwe K. Joy	Integrating farmer indigenous knowledge of indicator plants into scientific systems of soil quality assessment	Makerere University
5	Faculty of Forestry and Nature Conservation	Carnegie/ Mak/2008/0056	Byakagaba Patrick	Phenology and Productivity of the Shea Butter Tree (<i>Vitellaria paradoxa</i> C. F. Gaertn.) along a climatic gradient in the Parklands of Uganda	Makerere University
6	Faculty of Forestry and Nature Conservation	Carnegie/ Mak/2008/0057	Clement A. Okia	Nutritional analysis of <i>Balanites aegyptiaca</i> (desert date) leaves, fruits and oil for improved utilisation, commercialisation and conservation	Bangor University , UK
7	Faculty of Forestry & Nature Conservation	Carnegie/ Mak/2008/0058	Tumwine Jackson	The Effectiveness of Labour Saving Technologies in Mitigating the Impact of HIV/AIDS on Food Security, Nutrition, Health and Rural Livelihoods of Selected Households in Wakiso and Masaka Districts in Uganda	Wageningen University
8	Faculty of Medicine	Carnegie/ Mak/2008/0059	Josephine Namuganwa Kasolo	The toxicity profile of Moringa Oleifera leaves and roots	Makerere University
9	Faculty of Medicine	Carnegie/ Mak/2008/0060	Lynnette Kyokunda Tumwine	Cytogenesis, outcome predictors of non-hodgkin's Lymphoma and Association with HIV, EBV and HHV8 in Uganda.	Makerere University

ANNEX 3 Detailed list of publications by the PhD. beneficiaries

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 4. Book Chapter Irreversibility and Uncertainty in Multifunctional Forest Management Allocation by Jens Abildtrup, Jacques Laye, Maximilien Laye and Anne Stenger in the book "Global Perspectives on Sustainable Forest Management" edited by Okia Clement Akais, ISBN 978-953-51-0569-5, InTech, April 4, 2012

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CONFERENCE PAPERS PRESENTED

Dr. Bruno Yawe

- 1) Yawe, B.L. (2009) Technical Efficiency of District Referral Hospitals in Uganda: A Bootstrapped DEA Model, In *AERC's CPP Graduates Class of 2002: A Selection of Research papers Drawn from Doctoral Theses Chapter 5, pages 101-120* (Nairobi: African Economic Research Consortium).
- 2) 25-26 November 2009. Second National Policy (FEMA) Workshop: The Role of Accountability Relationships in Making Public Services Work in Uganda, Fairway Hotel, Kampala-Uganda. Presented a Paper Titled: Accountability in Uganda's Primary Education.
- 3) 05-06 November 2009. 2nd Annual Research & Innovations Dissemination Conference: "Sustainable Socioeconomic Development in Uganda; The Contribution of Makerere through Research & Innovations." Hotel Africana, Kampala-Uganda. Presented Abstract titled: Total Factor Productivity Growth in Uganda's District Referral Hospitals.

Dr. Juma Kasozi

- 4) SAMSA 2010 conference held at Botswana University of Agriculture, Gaborone 29th November to 4th December, 2010. Paper presented: Numerical Ultimate Ruin Probabilities for a risk process compounded by risk-free investments.
- 5) SAMSA 2009 conference held at the University of Dar es Salaam, Dar es Salaam, Tanzania from 25th November to 28th November, 2009. Paper co-presented: Dividend maximisation in the Cramer-Lundberg model using HAM.
- 6) SAMSA 2008 conference held at the Eduardo Mondlane University, Maputo, Mozambique from 24th November to 28th November, 2008. Paper presented: Numerical finite horizon ruin probabilities in the classical risk model with stochastic return on investments.
- 7) SAMSA 2007 conference held at the University of Namibia, Windhoek from 27th November to 30th November, 2007. Paper presented: Flow of Dividends for risk processes with stochastic return on investments.
- 8) Modeling in Mathematics Learning: Approaches for classrooms of the future workshop held at Makerere University, Kampala UGANDA from 23rd - 25th July 2007. Paper co-authored: Modeling the dynamics of teacher qualifications and student drop out rates.
- 9) SAMSA 2006 conference held at the University of Botswana, Gaborone from 27th November to 1st December, 2006. Paper presented: Dividend optimisation for risk processes with stochastic return on investments.
- 10) SAMSA 2005 conference held at the University of Malawi, Blantyre from 28th November to 2nd December, 2005. Paper presented: Flow of dividends under a constant force of interest.

Dr. J. Kikooma

- 11) Kikooma, J. "IT and HR: Are Human Resource Departments ready for electronic human resource management?"
- 12) Kikooma, J. "Qualitative research practices in an electronic environment; fears, hopes and new vistas for graduate training"

Dr. Kyoheirwe Muhanguzi F.

- 13) Kyoheirwe Muhanguzi F. (2008) "The Poverty – Sexuality Connection: Implications for Women's Well being and Gender Equality in Uganda", A research paper presented at the Women's Worlds Conference in Madrid Spain, June 2008.

Dr. Doris Muhwezi Kakuru

- 14) Doris M. Kakuru - HIV/AIDS, Children's Rights and Gender Equality in Uganda's Universal Primary Education -The paper highlights the impact of HIV/AIDS on children's capabilities to enjoy educational rights. It shows how gender inequalities in learning processes result from this scenario.

- 15) Doris M. Kakuru, Margreet van der Burg - Intersectionality and HIV/AIDS: Towards a Framework for Understanding Educational Gender Inequality in Rural Uganda - The paper highlights the nature of the various intersections that shape the background of discrimination upon which educational gender inequality thrives in a rural context of HIV/AIDS.

Dr. Owor Michael

- 16) **Owor, M.**, Taylor, R.G. and Thompson, J. (2009). Monitoring of the groundwater - surface water interactions in the Upper Nile Basin of Uganda – Recent findings. Joint International Convention of the 8th IAHS Scientific Assembly and 37th IAH Congress: Water: A vital resource under stress - How science can help, 6-12 September 2009, Hyderabad, India.
- 17) **Owor, M.**, Taylor, R.G., Tindimugaya, C., Mwesigwa, D. and Bradley, G. (2009). Rainfall intensity and groundwater recharge: empirical evidence from the Upper Nile Basin. Groundwater recharge Assessment Meeting – Are we any closer to an answer? 20-21 May 2009, University of East Anglia, Norwich, U.K.
- 18) **Owor, M.**, Taylor, R.G., Tindimugaya, C. and Mukwaya, C. (2008). Monitoring groundwater - surface water interactions in the Upper Nile basin of Uganda – Preliminary results. International conference on Groundwater and Climate in Africa, 24-28 June 2008, Kampala, Uganda.
- 19) **Owor, M.**, Hartwig, T., Muwanga, A., Zachmann, D. and Pohl, W. (2007). Heavy metal speciation and loading of Lake George since the pre-mining period of the old Kilembe copper mine, western Uganda. Abstract volume of the International conference on the East African Rift System (EARS), 23-25 July 2007, Kampala, Uganda.
- 20) **Owor, M.**, Hartwig, T., Muwanga, A., Zachmann, D. and Pohl, W. (2006). Fate of Contaminants from Kilembe Copper Mining Area to Lake George. Abstract volume of the 21st Colloquium on African Geology (CAG21): Geoscience for Poverty Relief, 3-5 July 2006, Maputo, Mozambique.
- 21) **Owor, M.**, Hartwig, T., Muwanga, A., Zachmann, D. and Pohl, W. (2005). Findings of the environmental geohydrologic evaluation of the Lake George wetlands as a natural barrier against the migration of heavy metals derived from the Kilembe copper mine. Proceedings of the Science for Humanity Conference of the International Science Congress (ISC) 2005, 3-6 August, 2005, Putra World Trade Centre, Kuala Lumpur, Malaysia.
- 22) **Owor, M.**, Hartwig, T., Muwanga, A., Zachmann, D. and Pohl, W. (2004). Preliminary Findings of the Lake George Wetlands as a Natural Barrier against the migration of Heavy Metals derived from the Kilembe Copper mine. Proceedings of the international conference on The East African Rift System: Geodynamics, Resources, and Environment, 20-24, June 2004, United Nations Conference Centre, Addis Ababa, Ethiopia.

Dr. Byakagaba Patrick

- 23) Presented a paper titled Population structure and Regeneration Status of *Vitellaria paradoxa* (C.F.Gaertn.) under different land management regimes in Uganda a Lira Hotel, Lira town, Northern Uganda 18th-19th 2011
- 24) Presented a paper at the African regional consultative workshop on Global Environmental governance title “Introduction to international environmental governance” held at the Faculty of Forestry and Nature conservation, Makerere University Kampala 10-August 2010.
- 25) Presented a paper on the phenology and population of *Vitellaria paradoxa* (shea tree) in Uganda at the Third steering committee meeting of INNOVKAR(Innovative tools and techniques for the sustainable use of shea tree in the sudano-sahelian zone on 5th-10 July 2009, Kampala, Uganda
- 26) Participated and presented a paper at a regional workshop whose theme was “Climate Change: Responses and Mitigation through Agriculture and Environment Management in East Africa” on 22-25 February 2009 at Speke Resort Munyonyo Kampala, Uganda.
- 27) Presented a paper on the current status of *Vitellaria paradoxa* (shea tree) in Uganda at the second steering committee meeting of INNOVKAR(Innovative tools and techniques for the sustainable use of shea tree in the sudano-sahelian zone on 22nd-26 July 2008, Tamale, Ghana

MANUSCRIPTS (10)

- 1) Juma Kasozi (2005) Number Theory Book (in print).
- 2) Chibita M. B. and Njonjo Mfaume. 2010. Language policy for radio in Uganda and Tanzania: public sphere or ‘public sphericules’?. Mawazo: The Journal of the Faculties of Arts and Social Sciences, Makerere University. Accepted .
- 3) Chibita M. B. 2011. Multiple publics, multiple languages: Radio and the contestations of broadcasting language policy in Uganda,’ in Radio in Africa: Cultures, publics, communities by the Wits University Press. (Accepted.)
- 4) Nagitta Musoke D. (2010) Handbook of the Laws protecting the Rights of Children in Uganda
- 5) Taylor, R., Tindimugaya, C., **Owor, M.** and Shamsudduha, M. (Eds.) (2009). Groundwater and Climate in Africa. International Association of Hydrological Sciences (IAHS) Publication 334, 260p.
- 6) **Owor, M.**, Taylor, R., Mukwaya, C. and Tindimugaya, C. Groundwater - surface water interactions on deeply weathered surfaces of low relief: evidence from Lakes Victoria and Kyoga, Uganda. *Hydrogeology Journal*

Dr. Florence Asimwe Akiiki

- 7) Interface between legislative politics and rights of women to ownership of property in Uganda.
- 8) Gender and Homeownership: The dynamics of inheritance in Kampala, Uganda.
- 9) Gender and homeownership: The dynamics of marriage and divorce in Uganda.
- 10) Gender dynamics in homeownership: A Gender system and contract theoretical framework for analysing gender inequality in homeownership in Urban Uganda.

ANNEX 4 Detailed list of publications by the postdoc research beneficiaries

AUTHOR/TITLE	
ARTICLES IN REFREED JOURNALS (43)	<p>Dr. Gerald Eilu</p> <ol style="list-style-type: none"> 1) <i>Dr. Eilu Gerald (2011) – “Folk Classification of Shea Butter Tree (Vitellaria paradoxa subsp. nilotica) Ethno-varieties in Uganda” Vol 9 (2011)</i> 2) Federico Escobar, Gunnar Brehm, Jan C. Axmacher, I-Ching Chen, Lucrecia Arellano Gámez, Peter Hietz, Konrad Fiedler, William F. Laurance, D. Carolina Useche, Luke P. Shoo, Sebastian K. Herzog, Michael Kessler Gerald Eilu “ Global warming, elevational ranges and the vulnerability of tropical biota, Journal: Biological Conservation - BIOL CONSERV , vol. 144, no. 1, pp. 548-557, 2011 3) Lawrence J. B. Orikiriza, Hillary Agaba, Mnason Tweheyo, Gerald Eilu, John David Kabasa, Aloys Hüttermann “Amending Soils with Hydrogels Increases the Biomass of Nine Tree Species under Non-water Stress Conditions”, Journal: Clean-soil Air Water , vol. 37, no. 8, pp. 615-620, 2009 4) Judith Ssali Nantongo, John Bosco Lamoris Okullo, Gerald Eilu, Isabelle Ratsimiala Ramonta, David Odee, Stephen Cavers “Structuring of genetic diversity in Albizia gummifera C.A.Sm. among some East African and Madagascan populations” , Journal: African Journal of Ecology - AFR J ECOL , 2009 5) Concy Acen Olanya, Gerald Eilu “Host-parasite relations of an angiospermous root parasite (Thonningia sanguinea Vahl) in logged and unlogged sites of Budongo forest reserve, western Uganda”, Journal: African Journal of Ecology - AFR J ECOL , vol. 47, no. 3, pp. 328-334, 2009

**ARTICLES IN
REFREED JOURNALS
(43)**

Professor Bernard T. Kiremire

- 6) Robert Byamukama, Monica Jordheim, Bernard Kiremire and Oyvind M. Andersen. New Anthocyanins from Stem Bark of Castor, *Ricinus Communis*. *Natural Product Communications* 2008: Vol3(9)1497-1500
- 7) Abiy Yenesew, Hannington Twinomuhwezi, Bernard T. Kiremire, Matthias Heydenreich, Martin G. Peter. "8-Methoxyneorautenol And Radical Scavenging Flavonoids From *Erythrina abyssinica*". *Bulletin of the Chemical Society of Ethiopia* 23(2)205-210, 2009.
- 8) Min Xu ; Marc Litaudon ; Sabrina Krief ; Marie-Thérèse Martin ; John Kasenene ; Bernard Kiremire ; Vincent Dumontet ; Françoise Guéritte. Ugandential A, a New Drimane-type Sesquiterpenoid from *Warburgia ugandensis*. *Molecules* 14(10)3844-3850, 2009.
- 9) Patrick Ssebugerea, Bernard T. Kiremire, Michael Kishimba, Shem O. Wandiga, Steven A. Nyanzi and John Wasswa. DDT and metabolites in fish from Lake Edward, Uganda. *Chemosphere* 76(2)212-215, 2009
- 10) Robert Byamukama, Jane Namukobe and Bernard Kiremire. Anthocyanins from leaf stalks of cassava (*Manihot esculenta* Crantz). *African J. of pure and Applied Chemistry* 3(2)020-025, 2009
- 11) Abiy Yenesew, Hannington Twinomuhwezi, Jacques M. Kabaru, Bernard T. Kiremire, Matthias Heydenreich, Martin G. Peter, Fredrick L. Eyase, Norman C. Walters and Douglas S. Walsh. Antiplasmodial and larvicidal flavonoids from *Derris trifoliata*. *Bulletin of the Chemical Society of Ethiopia* 23(3)409-414, 2009
- 12) Patrick Ssebugere, John Wasswa, Jolocam Mbabazi, Steven A Nyanzi, Bernard T Kiremire, John A M Marco. Organochlorine pesticides in soils from south-western Uganda. *Chemosphere* 78(10)1250-1255, 2010

Dr. J.B. Lamoris Okullo

- 13) Florence Akwatulira, Samson Gwali, John Bosco Lamoris Okullo, Paul Ssegawa, Susan Balaba Tumwebaze, John Richard Mbwambo and Alice Muchugi (2011) "Influence of rooting media and indole-3-butyric acid (IBA) concentration on rooting and shoot formation of *Warburgia ugandensis* stem cuttings" *African Journal of Plant Science*, [5 (8), 2011].
- 14) Okullo J.B.L.; Omujal, F.; Agea, J.G.; Vuzi, P.C.; Namutebi, A.; Okello, J.B.A.; Nyanzi, S.A. (2010) "Proximate and mineral composition of shea (*Vitellaria paradoxa* C.F. Gaertn) fruit pulp in Uganda"., *African Journal of Food, Agriculture, Nutrition and Development*.

Professor Joseph Obua

- 15) Nyadoi, P., Okori, P., Okullo, J.B.L., Obua, J., Burg, K., Fluch, S., Magogo, N., Saleh, H., Temu, A.B. and Jamnadass, R. 2010. Variability of East Africa Tamarind (*Tamarindus indica* L.) populations based on morphological markers. *Gene Conserve* 9(36): 51-78.
- 16) Nyadoi, P., Okori, P., Okullo, J.B.L., Obua, J., Magogo, N., Saleh, H., Pushpakumara, D.K.N.G., Roshetko, J., Kalinganire, A., Muchugi, A., Temu, A.B., Fluch, S. and Burg, K. 2010. *Tamarindus indica* tropical population genetic structure. *African Journal of Biotechnology* (in press).
- 17) Agaba, H., Orikiriza, L.J.B., Osoto Esegu, J.F, Obua, J. & Hütterman, A. 2010. Effects of Hydrogel Amendment to Different Soils on Iant Available Water and Survival of Trees under Drought Conditions. *Clean-Soil, Air, Water* 38(4): 328-335.
- 18) Okia, C.A., Agea, J.G., Kimondo, J.M., Abohassan, R.A., Obua, J. and Teklehaimanot, Z. 2011. Harvesting and Processing of *Balanites aegyptiaca* Leaves and Fruits for Local Consumption by Rural Communities in Uganda. *Journal of Food Technology* 9(2): 83-90.

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Dr. Fred Babweteera

- 19) Babweteera, F., and Brown, N. (2010): Spatial patterns of tree recruitment in East African tropical forests that have lost their vertebrate seed dispersers. *Journal of tropical ecology* **26**: 193 – 203
- 20) Tumusiime, D.M., Eilu, G., Tweheyo, M. and Babweteera, F. (2010): Wildlife Snaring in Budongo Forest Reserve, Uganda. *Human Dimensions of Wildlife* **15**:129–144
- 21) Babweteera, F. (2009): *Cordia millenii*: On the risk of local extinction? *African Journal of Ecology* **47**: 367 - 373
- 22) Babweteera, F., & Brown, N. (2009). Can remnant frugivore species effectively disperse tree seeds in secondary tropical rain forests? *Biodiversity and Conservation*, **18**(6), 1611-1627.
- 23) Vernon Reynolds, Andrew W. Lloyd, Fred Babweteera & Christopher J. English (2009). Decaying *Raphia farinifera* Palm Trees Provide a Source of Sodium for Wild Chimpanzees in the Budongo Forest, Uganda.
- 24) Babweteera, F., Reynolds, V., & Zuberbuhler, K. (2008). Conservation and research in the Budongo Forest Reserve, Masindi District, Western Uganda. *Science and Conservation in African Forests: The Benefits of Long-Term Research*, 145-157.
- 25) Amati S., Babweteera F. and Wittig R. 2008. Snare removal by a chimpanzee of the Sonso community, Budongo Forest (Uganda). *Pan Africa News*, **15** (1), 6-8.

Dr. Grace Nakabonge

- 26) Barnes, I., Nakabonge, G, Roux, J., Wingfield, B.D. & Wingfield, M.J. 2005.
- 27) Comparison of populations of the wilt pathogen *Ceratocystis albifundus* in South Africa and Uganda. *Plant Pathology* **54**, 189-195.
- 28) Nakabonge, G., Cortinas, M. N., Roux, J., Gryzenhout, M., Wingfield, B.D. & Wingfield, M. J. 2005. Development of polymorphic microsatellite markers for the fungal tree pathogen *Cryphonectria eucalypti*. *Molecular Ecology Notes* **5**,558-561.
- 29) Roux, J., Meke, G., Kanyi, B., Mwangi, L., Mbagi, A., Hunter, G.C., Nakabonge, G., Heath, R.N. & Wingfield, M.J. 2005. Diseases of plantation forestry trees species in Eastern and Southern Africa. *South African Journal of Science* **101**, 409–413.
- 30) Nakabonge, G., Roux, J., Gryzenhout, M. & Wingfield, M.J. 2006. Distribution of *Chrysosporthe* canker pathogens on *Eucalyptus* and *Syzygium* species in Eastern and Southern Africa. *Plant Disease* **90**, 734-740.
- 31) Nakabonge, G., Gryzenhout, M., Roux, J., Wingfield, B.D. & Wingfield, M.J. 2006. *Celoporthes dispersa* gen. et sp. nov. from native Myrtales in South Africa. *Studies in Mycology* **55**, 259-271.
- 32) Nakabonge, G., Gryzenhout, M., Wingfield, B.D., Wingfield, M.J. & Roux, J. 2007. Genetic diversity of *Chrysosporthe cubensis* in eastern and southern Africa. *South African Journal of Science* **103**, 1-4.
- 33) Nakabonge, G., Burgess, T., Gryzenhout, M., Wingfield, B.D., Wingfield, M.J. & Roux, J. (2008). Population structure of the fungal pathogen *Holocryphia eucalypti* in Australia and South Africa. *Australasian Plant Pathology* **37**(2) (In Press).

Dr. Maud Kamatenesi

- 34) Kamatenesi, M.M., Acipa, A., and Oryem-Origa, H. (2011). Medicinal plants of Otwal and Ngai Sub Counties in Oyam District, Northern Uganda. *Journal of Ethnobiology and Ethnomedicine* **2011**, **7**:7 doi:10.1186/1746-4269-7-7. <http://www.ethnobiomed.com/content/7/1/7>

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REFREED JOURNALS
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- 35) Kamatenesi-Mugisha, M. & Oryem-Origa, H. (2005). Traditional herbal remedies used in the management of sexual impotence and erectile dysfunction in western Uganda. *African health Sciences*, 5(1), 40-49. [Online version]
- 36) Kamatenesi-Mugisha, M., Oryem-Origa, H. & Olwa-Odyek. (2007). Medicinal plants used in some gynaecological morbidity ailments in western Uganda. *African Journal of Ecology*, 45(1), 34–40. [Online version]
- 37) Olila, D., Remegius Bukenya-Ziraba, . & Kamoga, D. (2007). Bio Prospective studies on medicinal plants used to manage poultry diseases in the Mount Elgon Region of Uganda.. *Research Journal of Pharmacology*, 1(3), 56-60.

Dr. Nakimbugwe Dorothy

- 38) Nyakuni, G., Kikafunda, J.K., Muyonga J.H., Kyamuhangire, W., Nakimbugwe, D.N and Ugen, M. 2007. Chemical and nutritional changes associated with development of HTC defect in common beans. *International Journal of Food science & Nutrition*. Inpress.
- 39) Balamaze, J. Muyonga, J.H., Kikafunda, J.K., Kyamuhangire, W., Nakimbugwe, D.N and Ugen, M. 2007. Influence of variety, growth location and storage conditions on development of hard-to-cook defect in common bean (*Phaseolus vulgaris*. L). Accepted for publication.
- 40) Lien Callewaert, Abram Aertsen, Daphne Deckers, Barbara Masschalck, Dorothy Nakimbugwe, Johan Robben, Arnout Voet, Marc De Maeyer and Christiaan W. MRCI 08/F02/P49- Enhancing use of science and technology for enterprises development Michiels. Identification and structural modelling of a novel bacterial lysozyme inhibitor in *Salmonella Enteritidis*. Submitted for Publication.
- 41) Dorothy Nakimbugwe, Barbara Masschalck, Grace Anim and Chris W. Michiels. 2006. Inactivation of gram-negative bacteria in milk and banana juice by hen egg white and lambda lysozyme under high hydrostatic pressure. *International Journal of Food Microbiology* 112:19-25.
- 42) Dorothy Nakimbugwe, Barbara Masschalck, Daphne Deckers, Lien Callewaert, Abram Aertsen & Chris W. Michiels. 2006. Cell wall substrate specificity of six different lysozymes and lysozyme inhibitory activity of bacterial extracts. *FEMS Microbiology, Letters* 259, 41–46.
- 43) Nakimbugwe Dorothy, Masschalck Barbara, Zewdie-Bosuner Abebech, Atanassova Miroslava and Michiels Chris. 2006. Bacterial inactivation by different lysozymes in combination with High Hydrostatic Pressure. *International Journal of Food Microbiology* 108, 355–363.

<p>CONFERENCE PAPERS PRESENTED (4)</p>	<ol style="list-style-type: none"> 1) Professor Joseph Obua (2011) “ <i>Advances in Natural Resources Management and Utilization</i>, Keynote paper presented at the Makerere University Research and Innovations Dissemination”, Conference, Hotel Africana 11-12 April 2011. 2) Nakabonge, G., Heath, R.N., Gryzenhout, M., Wingfield, M.J. & Roux, J. 2004. Cryphonectria canker in South and Eastern Africa. Proceedings of the American Phytopathological Society Meeting, July 31 – August 4, Anaheim, California. <i>Phytopathology</i> 94, S74. 3) Talwana, L. A. H., P. R. Speijer, C. S. Gold. R.L. Swennen, and D. De Waele 2006. Effect of nematode infection and damage on the root system and plant growth of three <i>Musa</i> cultivars commonly grown in Uganda. <i>Nematology</i>, 8: 177-189 4) Nakimbugwe Dorothy. 2006. An overview of national, regional and international policies affecting use of waste water for agricultural food production in the Lake Victoria and River Nile basins. Presented at the International Forum on Water and Food (CGIAR Challenge program on water and food) Briefing notes for session 18 (Global water policies). Vientiane, Lao PDR, Nov 12th – 17th 2006
<p>MANUSCRIPTS IN PRESS/UNDER REVIEW (3)</p>	<p>Dr. Maud Kamatenesi</p> <ol style="list-style-type: none"> 1) Kamatenesi-Mugisha, M., Oryem-Origa, H., Olwa-Odyek & Makawiti, D. W. (in Press). Ethno-pharmacological Screening of <i>Vernonia amygdalina</i> and <i>Cleome gynandra</i> traditionally used in Childbirth in Western Uganda. (NAPRECA). Kamatenesi-Mugisha, M., Oryem-Origa, H., Olwa-Odyek & Esezah Kakudidi (in press). Medicinal Plants and Gender Integration in Reproductive Health Care Delivery: a case study in Mbarara District, Western Uganda. <i>African Journal of Ecology</i> 2) Musiimenta, P., Kamatenesi-Mugisha, M., and Namutebi, A. (2010). Men’s Role in Maternal Health Care in Nyakayojo and Kanyaryeru in Mbarara and Kiruhura Districts in Western Uganda. <i>Gender and Nutri-medicinal plants</i> October 2010.

ANNEX 5 Summary of development partners' support to MAKERERE UNIVERSITY, 2001 – 2011

Development Partner	Phase/Timeframe	Areas of Support	Amount and Equivalent (US\$)	Status by October 2012
Carnegie Corporation of New York	Phase I (2001-2004)	Institutional capacity building in terms of :- <ul style="list-style-type: none"> Improved equity and access through the gender mainstreaming programme and female scholarship initiative Promotion of Science distance education programme of the University Promotion of Science and Technology in line with Government of Uganda's policy emphasis of Science through development of new academic programmes in Quantity Surveying valuation and more practical veterinary training ICT Infrastructural capacity and utilization in service delivery through use of administrative/management information systems. 	US\$ 4.081m	Completed
	Phase II (2004-2007)		US\$ 4.99m	Completed
	Phase III(2007-2011)		US\$ 3.07m	Completed
Rockefeller Foundation	Phase IV (2010-2013)	Development of Mak Main Library into a Model Library	US\$ 2.5m	On-going
	2002	Building, nurturing and retaining the next generation of academics	US\$ 1.90m	On-going
Ford Foundation	2002	Devolution to Colleges – Planning Grant for formation of College of Health Sciences	US\$ 245,000	Completed
Rockefeller Foundation	2003	Devolution to Colleges – Planning Grant for formation of College of Humanities – The Penta Plan	US\$ 100,000	Completed
		Devolution to Colleges – Planning Grant for formation of College of Agriculture and Environmental Sciences	US\$ 176,638	Completed



Development Partner	Phase/Timeframe	Areas of Support	Amount and Equivalent (US\$)	Status by October 2012
Rockefeller Foundation/IDAWB	2001-2009/10	Enhancement of Makerere University and Partnering Institutions' role in Government Policy of Decentralised Service Delivery.	US\$ 17.6m	Completed
Pfizer Inc. & Pfizer Foundation Academic Alliance for HIV/AIDs Care and Prevention	2001 - 2009	Capacity building in terms of research infrastructure and expertise/skills	US\$ 11m	Completed
DFID/British Council	2002-2005	Linkage for exchange visits, training library staff and medical students in regional health information (Sir Albert Cook Medical Library at Makerere University with Kent, Surrey and Sussex).	US\$ 21,000	Completed
NUFU - Norwegian Programme for Development, Research & Education	Phase I (1991-2005) Phase II (1996-2001) Phase III (2002-2006) Phase IV(2007-2011/12)	<ul style="list-style-type: none"> Human Resource Development – training at M.Sc., PhD. & technical staff training Research and publication by Staff Attendance of Conferences & Seminars for Research dissemination 	NOK 18,674,900 NOK 25,537,600 NOK 51,724,000 NOK 19,942,163	Completed Completed Completed On-going
Government of Norway/NORAD	Phase I (2000/01 – 2008/09)	Institutional capacity building in terms of :- <ul style="list-style-type: none"> Infrastructure – Incl. Buildings for DWGS, FCIT & DFST Human Resource Development ICT Development Collaboration & Networking 	NOK110Million (US\$14.082m	Completed
	Phase II (2005/06 – 2011/12)	<ul style="list-style-type: none"> Infrastructure – Incl. Building Extension for Faculty of Technology & furnishing of Main University Library ICT Infrastructure Human Resource Development at Masters and PhD. Research in GG & GM Research in FN & VA Strengthened University Management 	NOK60Million (US\$9.6m)	Completed

Development Partner	Phase/Timeframe	Areas of Support	Amount and Equivalent (US\$)	Status by October 2012
Sida/SAREC	Phase I (2000-2001)	<ul style="list-style-type: none"> Strengthening the University staff's research capacity, training and supervision up to PhD. level and post-doctoral Curricula development for cross-cutting & multi-disciplinary research courses Develop capacity of utilization of ICT infrastructure and electronic materials in research Strengthened research infrastructure (e.g. established Biomedical Laboratory, GIS Lab. And the Demographic Surveillance Site at Mayuge). Strengthened collaborative research linkages between Makerere University staff and senior researchers in Swedish Universities 	SEK15Million (US\$1.5m)	Completed
	Phase II (2002-2004/05)		SEK96.61Million (US\$9.661m)	Completed
	Phase II (2002-2004/05)		SEK7.5Million (US\$0.75m)	Completed
	Phase III(2005-2009)		SEK181m (US\$18.1m)	On-going

Source: *Planning & Development Department, Makerere University*

ANNEX 6 Completion status of PhD. beneficiaries

Annex 6a Phase I PhD. Beneficiaries

	Faculty/Dept.	Project No.	Researcher	University where Registered	Original Rank	Status
1	Agriculture	Carnegie/ Mak/2002/0001	Mr. B. Tayebwa	Makerere University	Lecturer	Left University(2008) before completing
2	Agriculture	Carnegie/Mak/2002/0003	Mr. L. Kasirira	University of Pretoria	Lecturer	Completed/SL
3	Agriculture	Carnegie/ Mak/2002/0004	Ms. E. Balirwa	Makerere University	Assistant Lecturer	Not Completed/L
4	Agriculture	Carnegie/ Mak/2002/0005	Mrs Magala-Nyago	Kenyatta University	Lecturer	Completed/SL
5	Agriculture	Carnegie/ Mak/2004/0020	Mr. Archilleo N. Kaaya	Makerere University	Lecturer	Completed/AP
6	Agriculture	Carnegie/ Mak/2004/0026	Ms. Dorothy Nakimbugwe	Makerere University	Assistant Lecturer	Completed/SL
7	Agriculture	Carnegie/ Mak/2004/0030	Mr. P. Tukamuhabwa	Makerere University	Lecturer	Completed/SL
8	School of Education	Carnegie/ Mak/2002/0002	Mr. C. Nsookwa	Makerere University	Assistant Lecturer	Not Completed/L
9	School of Education	Carnegie/ Mak/2002/0029	Mr. Fred E.K. Bakabulindi	Makerere University	Lecturer	Completed/SL
10	School of Education	Carnegie/ Mak/2004/0031	Mrs. E. Mugisha Baine	Birmingham University	Assistant Registrar	Completed/Manager (AA-QAD)
11	Faculty of Law	Carnegie/ Mak/2003/0007	Mr. Ben Twinomugisha	Makerere University	Lecturer	Completed/P
12	Faculty of Law	Carnegie /Mak/2004/0027	Ms. D. Naggita Musoke	Wisconsin-Modison Law School	Assistant Lecturer	Completed/L
13	Faculty of Veterinary Medicine	Carnegie/ Mak/2003/0008	Dr. L.M.P. Koma	University of Pretoria	Lecturer	Completed/SL
14	Faculty of Veterinary Medicine	Carnegie/ Mak/2003/0009	Dr. Ann Nanteza	Makerere University	Assistant Lecturer	Completed/L

15	Faculty of Science	Carnegie/ Mak/2003/0010	Mr. Juma Kasozi	Makerere University	Assistant Lecturer	Completed/SL
16	Faculty of Science	Carnegie/ Mak/2003/0015	Mr. Michael Owor	Makerere University	Assistant Lecturer	Completed/SL
17	Faculty of Science	Carnegie/ Mak/2004/0021	Mr. John Wasswa	Makerere University	Assistant Lecturer	Completed/SL
18	Makerere Institute of Public Health	Carnegie/ Mak/2003/0011	Mr. Oryem-Lalobo	Makerere University	Assistant Lecturer	Completed/SL
19	Faculty of Social Sciences	Carnegie/ Mak/2003/0012	Mr. Paul Mpuga	Linz University Austria	Assistant Lecturer	Completed/Left University (2008)
20	Faculty of Social Sciences	Carnegie/ Mak/2004/0018	Mr. Andrew Ellias State	Minnesota University	Assistant Lecturer	Completed/SL
21	Faculty of Social Sciences	Carnegie/ Mak/2004/0019	Mrs. Florence Kyoheirwe Muhanguzi	Cape Town University	Assistant Lecturer	Completed/SL
22	Faculty of Social Sciences	Carnegie/ Mak/2004/0023	Ms. Florence Akiki Asimwe	Makerere University	Lecturer	Completed/SL
23	Faculty of Social Sciences	Carnegie/ Mak/2004/0032	Mrs. Doris Muhwezi Kakuru	Makerere University	Assistant Lecturer	Completed/L
24	Faculty of Technology	Carnegie/ Mak/2003/0013	Eng. L. Kaluuba	Makerere University	Lecturer	Completed/SL
25	Faculty of Technology	Carnegie/ Mak/2003/0016	Mr. Nathan Batungi	Pretoria University	Lecturer	Completed/Surveyor with Estates Dept. of Mak. Univ.
26	Faculty of Technology	Carnegie/ Mak/2004/0034	Ms. Doreen Kyosimire	Makerere University	Assistant Lecturer	<u>Not Completed/AL</u>
27	Institute of Statistics & Applied Economics	Carnegie/ Mak/2003/0014	Mr. F. Tumwine	Makerere University	Assistant Lecturer	Completed/SL
28	Makerere University Institute of Psychology	Carnegie/ Mak/2004/0017	Mr. Julius Fred Kikooma	Cape Town University	Assistant Lecturer	Completed/SL

29	Makerere Institute of Psychology	Carnegie/ Mak/2004/0025	Ms. Grace Kibanja	Makerere University	Assistant Lecturer	Completed/SL
30	MTSIFA	Carnegie/ Mak/2004/0022	Mr. Angelo A. Kakande	Witwatersrand Johannesburg	Assistant Lecturer	Completed/SL
31	Faculty of Arts	Carnegie/ Mak/2004/0024	Ms. Monica Chibita	Witwatersrand	Lecturer	Completed/Left University (2012)
32	Faculty of Economics and Management	Carnegie/ Mak/2004/0028	Ms. Daisy Owomugasho	Makerere University	Lecturer	Not Completed/ Left University (2008)
33	Faculty of Economics and Management	Carnegie/ Mak/2004/0033	Mr. Eria Hasali	Makerere University	Assistant Lecturer	Completed/SL
34	Faculty of Economics and Management	Carnegie/ Mak/2004/0036	Mr. Yawe L. Bruno	Dar-es-laam	Assistant Lecturer	Completed/SL
35	EASUS	Carnegie/ Mak/2004/0035	Mr. C. Obura Okello	UNISA	Assistant Lecturer	Completed/SL

Source: Directorate of Research & Graduate Training, Makerere University

Annex 6b Phase II PhD. Beneficiaries

	Faculty/Dept.	Project No.	Researcher	University where Registered	Original Academic Rank	Status
1	Faculty of Agriculture	Carnegie/Mak/2006/0036	Mr. Atukwase Abel	Makerere University	Assistant Lecturer	Completed/L
2	Faculty of Agriculture	Carnegie/Mak/2006/0037	Mr. Gaston Ampek Tumuhimbise	Makerere University	Assistant Lecturer	Completed/L
3	Faculty of Agriculture	Carnegie/Mak/2006/0041	Mr. Hedwig Acham	Makerere University	Assistant Lecturer	Completed/L
4	Faculty of Veterinary Medicine	Carnegie/Mak/2006/0038	Dr. Nakalembe Immaculate	Makerere University	Assistant Lecturer	Completed/L
5	Faculty of Veterinary Medicine	Carnegie/Mak/2006/0039	Dr. John Katerenga	Makerere University	Assistant Lecturer	<u>Not Completed/L</u>
6	Faculty of Veterinary Medicine	Carnegie/Mak/2006/0043	Dr. Okuni Julius Boniface	Makerere University	Assistant Lecturer	Completed/L
7	Faculty of Veterinary Medicine	Carnegie/Mak/2006/0044	Dr. Naigaga Irene	Rhodes University, South Africa	Assistant Lecturer	<u>Not Completed/L</u>
8	Faculty of Forestry and Nature Conservation	Carnegie/Mak/2006/0040	Mr. Tumwebaze Balaba Susan	Makerere University	Assistant Lecturer	Completed/L
9	Faculty of Forestry and Nature Conservation	Carnegie/Mak/2006/0045	Mr. Zziwa Ahamada	Makerere University	Assistant Lecturer	Completed/L
10	Faculty of Science	Carnegie/Mak/2006/0042	Mr. Byamukaa Robert	Makerere University	Assistant Lecturer	Completed/L

Source: Directorate of Research & Graduate Training, Makerere University

6(c) Phase III PhD. Beneficiaries as of October 2012

	Faculty/Dept.	Project No.	Researcher	University where Registered	Original Academic Rank	Status
1	Faculty of Agriculture	Carnegie/Mak/2008/0052	Sewanyana Collins	Makerere University	Assistant Lecturer	<u>Not Completed/AL</u>
2	Faculty of Agriculture	Carnegie/Mak/2008/0053	Wanyama David	Jomo Kenyatta University of Agriculture and Technology	Assitant Lecturer	<u>Not Completed/AL</u>
3	Faculty of Agriculture	Carnegie/Mak/2008/0054	Sseguya Haroon	Makerere University	Assistant Lecturer	Completed/L
4	Faculty of Agriculture	Carnegie/Mak/2008/0055	Tumuhairwe K. Joy	Makerere University	Assistant Lecturer	<u>Not Completed/AL</u>
5	Faculty of Forestry and Nature Conservation	Carnegie/Mak/2008/0056	Byakagaba Patrick	Makerere University	Assistant Lecturer	<u>Not Completed/AL</u>
6	Faculty of Forestry and Nature Conservation	Carnegie/Mak/2008/0057	Clement A. Okia	Bangor University , UK	Assistant Lecturer	Completed/L
7	Faculty of Forestry and Nature Conservation	Carnegie/Mak/2008/0058	Tumwine Bwagiro Jackson	Wageningen University	Assistant Lecturer	<u>Not Completed/AL</u>
8	Faculty of Medicine	Carnegie/Mak/2008/0059	Josephine Namuganwa Kasolo	Makerere University	Lecturer	<u>Not Completed/L</u>
9	Faculty of Medicine	Carnegie/Mak/2008/0060	Lynnette Kyokunda Tumwine	Makerere University	Lecturer	Completed/L

Source: Directorate of Research & Graduate Training, Makerere University

Annex 7 Summary of PhD. beneficiaries who have not completed

Phase/Period	PhD. Beneficiary	Reason for the Non-Completion/or Delay
One (I) – (2001-2004)	Mr. Tayebwa Bernard	Abandoned Course and resigned from service of the University
	Ms. Elizabeth Balirwa	She had an accident mid-way the research and had to change topic of research currently being supported under the NGAA
	Ms. Kyosimire Doreen	Heavy teaching load
	Ms. Diasy Owomugasho	Abandoned Course and resigned from service of the University
	Mr. Nsookwa Charles	Heavy teaching load
Two (II) – (2004-2007)	Dr. John Kateregga	Heavy teaching load
	Dr. Irene Naigaga	Due to inadequate funding. She secured additional funding from
	Sewanyana Collins	Heavy teaching load
Three (III) – (2008 – 2011)	Wanyama David	Due to inadequate funding.
	Tumuhairwe K. Joy	Heavy teaching load
	Byakagaba Patrick	Due to inadequate funding. He has been granted additional funding under NGAA
	Tumwine Bwagiro Jackson	Due to inadequate funding. He was granted additional under Phase III.
	Dr. Josephine Namuganwa Kasolo	Due to inadequate funding. She also had an added research aspect for which the University granted her additional support under the NGAA

ANNEX 8 Postdoc research grantees completion status

Annex 8a Phase II

	Faculty/Dept.	Researcher/Project No.	Research Project Title	Status
1	Faculty of Agriculture	Dr. Baranga Deborah - Carnegie/Mak/2006/0046 -	Wild life conservation, forest management, cropping systems and crop raiding incidence: implications of food value and security in and around Mabira forest reserve, Uganda	Completed
2	Faculty of Agriculture	Dr. Talwana Herbert - Carnegie/ Mak/2006/0048	Diversity in Entomopathogenic nematodes and their potential for bio-control of insect pests in Uganda	Completed
3	Faculty of Agriculture	Dr. Nakimbugwe Dorothy -Carnegie/ Mak/2006/0050	Utilization of Amaranthus grain seeds in nutrient-dense, ready-to-eat snack suitable for feeding nutritionally vulnerable people.	Completed
4	Faculty of Forestry and Nature Conservation	Dr. J.B. Lamoris Okullo - Carnegie/ Mak/2006/0049	Assesment of on-farm conservation strategies, post-harvest handling and nutritional value of the Shea butter (<i>vite/llaria paradoxa</i>) in Uganda	Completed
5	Faculty of Veterinary Medicine	Dr. Nakavuma Jesca -Carnegie/ Mak/2006/0047	Screening and identification of potential probiotic bacteria for use as biological control agents in aquaculture.	Completed
6	Faculty of Veterinary Medicine	Dr. Olilia Deo -Carnegie/Mak/2006/0051	Evaluation of Ethnobotanicals (bio-pesticides) for the management of storage pests of beans, maize and groundnuts in Teso farming system	Completed


Source: Directorate of Research & Graduate Training, Makerere University

Annex 8b Phase III

Faculty/Dept.	Researcher/Project No.	Research Project Title	Status
Faculty of Science	Dr. Maudi Kamatenesi - Carnegie/Mak/2008/0061 -	Integration of medical plants as nutritional supplements in health care delivery in Uganda	Completed
Faculty of Science	Prof. Kiremire Bernard - Carnegie/Mak/2008/0062	Isolation of Flavonoids from indigenous plants and exploring their use as Food colorants	Completed
Faculty of Agriculture	Dr. Jenipher Bisikwa - Carnegie/Mak/2008/0063	Production of high value peanut-based product from aflatoxin free groundnuts	Completed
Faculty of Agriculture	Dr. Jeninah Karungi Tumutegyereize - Carnegie/Mak/2008/0064	Enhancing quantity and quality of pepper (<i>Capsicum</i> spp.) produce through integrated pest management strategies in Uganda	Completed
Faculty of Veterinary Medicine	Dr. C.C. Kyarisiima - Carnegie/Mak/2008/0065	Management strategies for increased local chicken meat production in Uganda	Completed
Faculty of Agriculture	Dr. Theodora S. Hyuha - Carnegie/Mak/2008/0066	Assessment of comparative and competitive advantage among rice producers in Uganda	Completed
Faculty of Agriculture	Dr. Monica Karuhanga - Carnegie/Mak/2008/0067	Assessment of the impacts of HIV/AIDS on management, production and health of livestock and implications for food security	Not Completed
Faculty of Forestry and Nature Conservation	Dr. Grace Nakabonge – Carnegie/Mak/2008/0068	Morpho-genetic and chemical characterisation of local shea (<i>Vitellaria paradoxa</i> ssp. <i>Nilotica</i>) varieties for improved nutrition and household incomes in Uganda	Completed
Faculty of Forestry and Nature Conservation	Dr. Gerald Eilu – Carnegie/Mak/2008/0069	Wild plants consumed in Uganda: exploring the potential for improved rural household food security, nutrition and incomes	Not Completed
Faculty of Forestry and Nature Conservation	Dr. Fred Babweteera Carnegie/Mak/2008/0070	Improving technologies for temperate fruit growing to enhance nutrition and household incomes of smallholder farmers in south western Uganda	Completed
Faculty of Forestry and Nature Conservation	Prof. Joseph Obua - Carnegie/Mak/2008/0071	Development of an improved protocol for processing and handling of honey in Uganda	Completed

Source: Directorate of Research & Graduate Training, Makerere University





Makerere University
P.O. Box 7062
Kampala, Uganda