

CURRICULUM VITAE

A. PERSONAL DETAILS

NAME: SAHA, Hemedi Mkuzi (PhD)
DATE OF BIRTH: 4th October 1957
NATIONALITY: Kenyan
GENDER: Male
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B. HIGHER EDUCATION

Name of Institution	Years attended		Degree/Certificate Awarded
	From	To	
Jomo Kenyatta University of Agriculture & Technology	2002	2007	PhD (Horticulture)
University of Kentucky, USA	1994	1996	MSc (Soil Science)
University of Nairobi	1978	1981	BSc (Agriculture)

C. IN-SERVICE SHORT COURSES/WORKSHOPS

December 18-21, 2006 Training Workshop on Biometrics, held at KARI Mtwapa, Kenya

March 12-17, 2001 Training of Trainers Course on Farmer Field School Concept, held at Egerton University, Njoro, Kenya

March 4-15, 1996 Workshop on Management Information System for Agricultural Research (INFORM), held at Egerton University, Njoro, Kenya

August 7-12, 1994	Research Management Workshop, held at Colorado State University, Ft. Collins, Colorado, USA
July 9-20, 1990	A workshop on On-farm Trial Data Analysis, Interpretation and Reporting, held at CIMMYT Centre, Harare, Zimbabwe
July 17 to September 1, 1989	A course on Research Program Design for Agronomists, offered at the International Maize and Wheat Improvement Center (CIMMYT), Mexico

D. PROFESSIONAL EXPERIENCE

January 2014 to Date:	Registrar (Research & Extension), Pwani University
June 2010 to December 2013:	Senior Lecturer, Pwani University
August 1996 to May 2010:	Soil Scientist, KARI Mtwapa
March 1989 to July 1996:	Maize Agronomist, KARI Mtwapa
January 1982 to February 1989:	Research Officer, Ministry of Agriculture, Research Division
September to December 1981:	District Programmes Coordinator (DPC), Tana River district, Ministry of Agriculture, Extension Division

E. ADMINISTRATIVE RESPONSIBILITIES

January 2014 to Date:	Registrar (Research & Extension), Pwani University
September 2012 to December 2013:	Chairman, Department of Crop Sciences, Pwani University
June to July 2013:	Acting Dean, School of Agricultural and Environmental Sciences, Pwani University
July to August 2012:	Acting Chairman, Department of Agricultural Sciences, Pwani University College
1997 to May 2010:	Program Head, Natural Resource Management Program, Kenya Agricultural Research Institute - Mtwapa

F. OTHER UNIVERSITY RESPONSIBILITIES

- December 2013 to Present: Supervisor of a Masters student, Bahati Abdallah
- December 2012 to Present: Supervisor of a PhD student, Jackson M. Mulinge
- October 2012 to Present: Member, Pwani University Research Board
- October 2011 to Present: Chairman, Farm Technical Subcommittee - Crops – A subcommittee of the Pwani University Farm Management Committee
- September 2011 to Present: Member, Farm Management Committee of Pwani University

G. CURRENT RESEARCH

Focus	Project title
Striga weed management	Intergrating <i>Hyptis specigera</i> , cowpea (<i>Vigna unguiculata</i>) and striga resistant/tolerant maize (<i>Zea mays</i>) for the control of <i>Striga asiatica</i>
Dry season dairy feeding	Cassava based Napier grass silage for increased milk yield during the dry season in coastal Kenya

H. RESEARCH GRANT AWARDS

Year	Project title	Funding agent	Grant
2011	Cassava based Napier grass silage for increased milk yield during the dry season in coastal Kenya	Eastern Africa Agricultural Productivity Project (EAAPP)	KSh. 8,610,770 for 3 years
2011	Integrating <i>Hyptis specigera</i> (Labiatae), <i>Vigna unguiculata</i> and striga resistant/Tolerant maize (<i>Zea Mays</i>) for the control of <i>Stiga asiatica</i>	National Council for Science, Technology and Innovation (NACOSTI)	KSh. 6,030,847 for 3 years (NCST/5/003/3 rd CALL/142)

2008	Multiplication of high yielding and disease tolerant cassava clones and creation of distribution channels for planting material	Alliance for a Green Revolution in Africa (AGRA)	USD 183,316 for 3 years (Grant No. PASS 2008 033)
2006	Dissemination, promotion and maintenance of new cassava varieties in coastal and dry mid-altitude areas of Kenya	Rockefeller Foundation (RF)	USD 165,500 for 3 years (RF grant No. FS 2006 056)
2002	Soil and Water Management Project of KARI-Mtwapa	Rockefeller Foundation (RF)	USD 180,000 for 3 years (RF grant No. FS 2002 009)
2000	The effect of l-dopa in mucuna (<i>Mucuna pruriens</i>) forage on the performance of lactating cows	Rockefeller Foundation (RF)	USD 9,429 for 1 year (RF grant No. FS 2000 142)

I. OTHER AWARDS

Year	Award	Awarding Institution
2010	3 rd best paper in the category of natural resource management	Kenya Agricultural Research Institute (KARI)
2001	Certificate of Excellence in recognition for the development of outstanding educational material in the category of publications greater than 16 pages	American Society of Agronomy (ASA)

J. STUDENT SUPERVISION

S/No.	Name of student	Degree	Project title	University	Status
1	James B. Ndiso	PhD	Enhancing productivity of the maize–cowpea intercropping system in coastal lowland Kenya through drought tolerant varieties and improved resource use	University of Nairobi	Ongoing
2	Jackson M. Mulinge	PhD	Evaluation of cover cropping systems and their effects on soil properties and productivity of orange crop in coastal Kenya	Pwani University	Ongoing
3	Bahati Abdallah	MSc	Integrating resistant maize variety and legume cover crop in the control of <i>Striga asiatica</i> in coastal lowland Kenya	Pwani University	Ongoing

K. PUBLICATIONS IN REFEREED JOURNALS

- (1) Gacheru, E.N., G.M. Kamau, **H.M. Saha**, G.D. Odhiambo, and M.K. O'Neill. 1993. Effect of land preparation and weeding on maize grain yields in the coastal region of Kenya. *International Journal of Pest Management* Vol. 39 (1) pp. 57-60.
- (2) **Saha, H.M.**, E.N. Gacheru, G.M. Kamau, M.K. O'Neil, and J.K. Ransom. 1994. Effect of nitrogen and plant density on the performance of Pwani Hybrid maize. *African Crop Science Journal* Vol. 2 No.1 pp. 63-67.
- (3) Muinga, R.W., **H.M. Saha**, and J.G. Mureithi. 2003. The effect of mucuna (*Mucuna pruriens*) forage on the performance of lactating cows. *Tropical and Subtropical Agroecosystems*, 1(2003) 87-91.

- (4) Muinga, R.W., J.G., Mureithi, H. Juma and **H.M. Saha**. 2007. The effect of supplementing Napier grass or maize stover basal diet with either Gliricidia, Clitoria or Mucuna on manure quantity and quality of Jersey cows. *Tropical and Subtropical Agroecosystems*, 7(2007): 157-163.
- (5) **Saha, H.M.**, R.K. Kahindi, and R.W. Muinga. 2008. Evaluation of manure from goats fed panicum basal diet and supplemented with madras thorn, leucaena or gliricidia. *Tropical and Subtropical Agroecosystems*, 8(2008): 251-257.
- (6) **Saha, H.M.**, L.S. Wamocho, F.K. Lenga, and J.G. Mureithi. (2008). Effect of legume plant density and intercropping on performance of maize and mucuna. *E. Afr. Agric. For. J.* (2008) 74(1), 1-9.
- (7) **Saha, H.M.**, F.K. Lenga, L.S. Wamocho, and J.G. Mureithi. 2008. Effect of legume plant density and time of intercropping legume with maize on the economic benefit of maize-mucuna intercropping systems. *E. Afr. Agric. For. J.* (2008) 74(3), 219-226.
- (8) **Mkuzi, H.**, S. Mwangi and K. Danda. 2013. Resettling displaced people in a Coastal Zone Mining Project: Evaluating the agricultural and land use potential of the proposed resettlement site –A case of titanium mining in Kenya. *Journal of Environment and Earth Science*. Vol. 3, No.4, 2013.
- (9) Danda, K., S. Bimuzi, S. Mwangi, F. Murithi, and **H. Mkuzi**. 2014. Markets and gender interaction in climate change adaptation and mitigation: A case of the coastal Kenya sedentary farm households' experiences. *Journal of Environment and Earth Science*. Vol. 4, No. 7, 2014.

L. CONFERENCE/SEMINAR/WORKSHOP PRESENTATIONS

- (1) Kamau, G.M., **H.M. Saha**, E.N. Gacheru, G.D. Odhiambo, and J.K. Ransom. 1994. Effect of time and method of placement of nitrogen on maize grain yield in the coastal region of Kenya. *African Crop Science Conference Proceedings*, Vol. 1, pp. 134-136.
- (2) Kamau, G.M, E.N. Gacheru, **H.M. Saha**, G.D. Odhiambo, and J.K. Ransom. 1994. Effect of nitrogen and weed treatment on maize grain yields in the coastal region of Kenya.

Proceedings of the 14th Biennial Conference of the Weed Science Society of East Africa. Arusha, Tanzania, October, 1993.

- (3) Kamau, G.M., **H.M. Saha**, and J.K. Ransom. 1996. Strategies to reduce early weed competition and improve yields of maize in the lowland coastal Kenya. *Proceedings of the 2nd Crop Science Conference for Eastern and Southern Africa. Blantyre, Malawi, 19-25 February 1995.*
- (4) Mureithi, J.G., C.K.K. Gachene, **H.M. Saha** and E. Dyck. 1998. Incorporation of green manure legumes into smallholder farming systems in Kenya: Achievements and current activities of Legume Screening Network. *Proceedings of the International Workshop on Agrobiological Management of Soils and Cropping Systems. Antsirabe, Madagascar, 23-28 March 1998.*
- (5) Kamau, G.M and **H.M. Saha** 1999. Weed competition and its effect on Pwani Hybrid 1 maize on two sites in coastal Kenya. *Proceedings of the 6th KARI Biennial Scientific Conference. Nairobi, Kenya. 9-13 November 1998. pp. 120-126.*
- (6) Mureithi, J.G., **H.M. Saha**, M.N. Njunie, G.M. Kamau, T.L. Munga, A. Blokland, F.K. Muniu, M.B. Muli, A. Ramadhan and E. Wekesa. 2000. An appraisal of methods used by farmers to manage soil fertility in coastal Kenya. *Proceedings of the 15th Annual General Meeting of the Soil Science Society of East Africa. Nanyuki, Kenya, 19 - 23 August 1996. pp. 371-386.*
- (7) **Saha, H.M.**, Njunie, M.N. and Tsanje, N.M. 2000. Legume screening for soil fertility improvement in coastal lowland Kenya. p. 87-99. *In: Mureithi, J.G., Mwendia, C.W., Muyekho, F.N., Onyango, M.A. and Maoebe, S.N. (Eds). Participatory Technology Development for Soil Management by smallholders in Kenya. A compilation of selected papers presented at the 1st annual conference of the Soil management and Legume research Network workshop held in Mombasa, Kenya. March 24-26, 1997.*
- (8) **Saha, H.M.** and M.B. Muli. 2000. What the coastal farmer sees in mucuna. *Legume Research Network Project Newsletter, KARI. No. 3. p. 15.*
- (9) Mureithi, J.G., S.N. Maobe, E. Dyck, C.K.K. Gachene, N. Gitari, B. Kirungu, B.M. Muli, J. Ojiem, **H.M. Saha**, and P. Tana. 2000. Screening of legume germplasm in Kenya: Effect of rhizobia inoculation on performance of best bet legumes. *Proceedings of the 16th Annual General Meeting of the Soil Science Society of East Africa. Tanga, Tanzania. 13-19 December 1998.*

- (10) **Saha, H.M.** and M.B. Muli. 2002. Effects of combining green manure legumes, farmyard manure and inorganic fertilizer on maize yield in coastal Kenya. p. 103-113. In J.G. Mureithi, C.K.K. Gachene, F.N. Muyekho, M. Onyango, L. Mose and O. Magenya (eds.). Participatory technology development for soil management by smallholder farmers in Kenya. *Proceedings of the 2nd Scientific Conference of the Soil Management and Legume Research Network Projects. Mombasa, Kenya. 26-30 June 2000.*
- (11) Muli, M.B. and **H.M. Saha**. 2002. Participatory evaluation of cowpea cultivars for adaptation and yield performance in coastal Kenya. p. 267-272. In J.G. Mureithi, C.K.K. Gachene, F.N. Muyekho, M. Onyango, L. Mose and O. Magenya (eds.). Participatory technology development for soil management by smallholder farmers in Kenya. *Proceedings of the 2nd Scientific Conference of the Soil Management and Legume Research Network Projects. Mombasa, Kenya. 26-30 June 2000.*
- (12) Muinga, R.W., **H.M. Saha**, M.N. Njunie, and S. Bimbuzi. 2002. The effect of herbaceous legumes and *Gliricidia sepium* on lactation performance of jersey cows. p. 351-356. In J.G. Mureithi, C.K.K. Gachene, F.N. Muyekho, M. Onyango, L. Mose and O. Magenya (eds.). Participatory technology development for soil management by smallholder farmers in Kenya. *Proceedings of the 2nd Scientific Conference of the Soil Management and Legume Research Network Projects. Mombasa, Kenya. 26-30 June 2000.*
- (13) Odendo M., J.K. Barakutwo, N. Gitari, M. Kamidi, B. Kirungu, E. Lunzalu, J.G. Mureithi, C.O. Nekesa, J. Ojiem, M. Okumu, E. Okwosa, R. Onyango and **H.M. Saha**. 2002. Potential for adoption of green manure legumes for soil fertility management in Kenya. p. 403-412. In J.G. Mureithi, C.K.K. Gachene, F.N. Muyekho, M. Onyango, L. Mose and O. Magenya (eds.). Participatory technology development for soil management by smallholder farmers in Kenya. *Proceedings of the 2nd Scientific Conference of the Soil Management and Legume Research Network Projects. Mombasa, Kenya. 26-30 June 2000.*
- (14) Muli, M.B. and **H.M. Saha**. 2004. Evaluation of pest tolerant cowpea varieties for adaptability in coastal lowlands of Kenya. *Proceedings of the 8th KARI Biennial Scientific Conference. Nairobi, Kenya. 11-15 November 2002. pp. 297-300.*
- (15) **Saha H.M.**, J.G Mureithi, M.N. Njunie and M.B. Muli. 2004. Green manure legumes for improved farm productivity at the coastal Kenya (*Abstract 2.3*). In P.L. Woomer and J.K. Lynam (eds.) Enhanced Soil Productivity in East and Southern Africa: Program,

Participants and Abstracts. *The Rockefeller Foundation Grantees Workshop, September 20-23 2004, Nairobi, Kenya, pp 33-34.*

- (16) Mangale, N., K. Danda, R.W. Muinga, **H.M. Saha**, M.B. Muli, F.K. Muniu and S. Wachira. 2005. Characterization of farmers and farming systems to establish entry points for soil and water management interventions to enhance food security in coastal Kenya. *Proceedings of the 1st Adaptive Research Conference. Nairobi, Kenya. 16-19 June 2003.*
- (17) Muli, M.B. and **H.M. Saha**. 2005. Effect of leaf harvesting frequency on the grain yield of two cowpea (*Vigna unguiculata*) varieties. *Proceedings of the 1st Adaptive Research Conference. Nairobi, Kenya. 16-19 June 2003.*
- (18) Muli, M.B. and **H.M. Saha**. 2005. Participatory evaluation of pest tolerant cowpea varieties in Voi Division Taita Taveta District. *Proceedings of the 1st Adaptive Research Conference. Nairobi, Kenya. 16-19 June 2003.*
- (19) Muli, M.B. and **H.M. Saha**. 2006. Effect of goat manure and plant population on grain yield of sorghum (*Sorghum bicolor* L.). *Proceedings of the 9th KARI Biennial Scientific Conference. Nairobi, Kenya. 8-12 November 2004. pp. 647-651.*
- (20) Njuguna, P.M., R.W. Muinga and **H.M. Saha**. 2006. Evaluation of manure from cows fed Napier grass or maize stover basal diet supplemented with Gliricidia, Clitoria or Mucuna. *Proceedings of the 9th KARI Biennial Scientific Conference. Nairobi, Kenya. 8-12 November 2004. pp. 245-250.*
- (21) **Saha H.M.**, and M.B. Muli. 2006. Effect of weeding and stem borer control on the performance of maize (*Zea mays* L.) in coastal lowland Kenya. *Proceedings of the 9th KARI Biennial Scientific Conference. Nairobi, Kenya. 8-12 November 2004. pp. 7-11.*
- (22) **Saha, H.M.**, L.S. Wamocho, F.K. Lenga, and J.G. Mureithi. 2006. The potential of green manure legumes for suppressing weeds in coastal lowland Kenya: effect of legume density and time of intercropping into maize. *Proceedings of the 7th African Crop Science Conference. Entebbe, Uganda, 5-9 December 2005.*
- (23) **Saha, H.M.**, M.B. Muli, A.M. Mzingirwa, J.M. Ndungu and K.K. Lewa. 2007. Scaling out benefits of technologies through Farmer Field School networks: A case study of INM technologies. *Proceedings of the International Symposium on Agricultural Innovation Systems in African. Kampala, Uganda, 21-23 November 2006.*
- (24) Muli M.B., **H.M. Saha**, A.M. Mzingirwa and K.K. Lewa. 2007. Innovative methods for linking farmers to inputs markets through farmer field school networks for increased

- production and food security. *Proceedings of the International Symposium on Agricultural Innovation Systems in African. Kampala, Uganda, 21-23 November 2006.*
- (25) Muli, M.B. and **H.M. Saha**. 2008. Verification of rate and method of manure application on the maize (*Zea mays* L.) productivity in coastal lowland Kenya. *Proceedings of the 10th KARI Biennial Scientific Conference. Nairobi, Kenya. 13-17 November 2006.*
- (26) **Saha, H.M.**, M.B. Muli and C.N. Ondiko. 2008. Effect of method of managing inter-season weed biomass, N and P application on maize yield. *Proceedings of the 11th KARI Biennial Scientific Conference. Nairobi, Kenya. 10-14 November 2008.*
- (27) Muli, M.B. and **H.M. Saha**. 2008. Characterization of readily available organic manures in coastal Kenya. *Proceedings of the 11th KARI Biennial Scientific Conference. Nairobi, Kenya. 10-14 November 2008.*
- (28) Pole, F.N., O.S. Kai and **H.M. Saha**. 2008. Effect of cassava flour proportion in wheat-cassava blend on loaf quality. *Proceedings of the 11th KARI Biennial Scientific Conference. Nairobi, Kenya. 10-14 November 2008.*
- (29) **Saha, H.M.**, L.S. Wamocho, F.K. Lenga and J.G. Mureithi. 2010. The effect of legume plant density and time of intercropping on root distribution in a maize-mucuna intercrop. *Proceedings of the 12th KARI Biennial Scientific Conference. Nairobi, Kenya. 8-12 November 2010.*
- (30) Muinga, R.W., C.K. Katama, **H.M. Saha** and J.G. Gethi. 2010. Acceptability of *ugali* and porridge made from blends of cassava and maize flour in coastal Kenya. *Proceedings of the 12th KARI Biennial Scientific Conference. Nairobi, Kenya. 8-12 November 2010.*
- (31) Katama, C.K., R.W., Muinga, **H.M. Saha** and J.G. Gethi. 2010. The effect of substituting wheat with cassava flour on acceptability of *chapatti* and *mahamri* in coastal Kenya. *Proceedings of the 12th KARI Biennial Scientific Conference. Nairobi, Kenya. 8-12 November 2010.*

M. OTHER PUBLICATIONS

- (1) **Saha, H.M.** 2007. Improving Resource use Under Maize-Green Manure Legume Systems in Coastal Lowland Kenya. *PhD Thesis, Jomo Kenyatta University of Agriculture and Technology, 2007.*
- (2) **Saha, H.M.** 1996. The influence of corn planting date, cover crop, and fertilizer N rate on the N nutrition of corn (*Zea mays L.*). *MSc Thesis, University of Kentucky, 1996.*

N. AGRICULTURAL TECHNICAL HANDBOOKS/BOOKLETS

- (1) **Saha, H.M.** and J.H. Grove. 1996. No-tilling Corn into Hairy Vetch: Fertilizer nitrogen substitution without penalty due to delayed planting. *Soil Science News & Views. University of Kentucky and Cooperative Extension Service. Vol. 17, No. 1.*
- (2) Kanyanjua, S.M., J.G. Mureithi, C.K.K. Gachene and **H.M. Saha.** 2000. Soil fertility management handbook for extension staff and farmers in Kenya. *KARI Technical Note Series. Technical Note No. 6.*
- (3) **Saha, H.M.** and M.B. Muli. 2006. Use green manure legumes to restore soil fertility: A guide for coastal farmers. *Kenya Agricultural Research Institute, Mtwapa.*

O. RESPONSIBILITIES AT COMMUNITY LEVEL

- (1) Chairman, Board of Governors (BOG), Kajiwe Secondary School: Served a 3-year term, from 19th July 2010.
- (2) Chairman, Board of Governors (BOG), Rabai Secondary School: To serve a 3-year term, with effect from 9th February 2012.
- (3) Member, Board of Directors, Anglican Development Services (ADS-Pwani): To serve a 4-year term, with effect from 30th July 2012.
- (4) Vice Chairman, School of Nursing Sub-committee, St. Luke's Mission Hospital – A Subcommittee of ADS-Pwani.

REFEREES

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