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EDUCATION

University	Main discipline	Degree awarded
NAIROBI, KENYA	AGRICULTURE	BSc. AGRICULTURE.
MISSOURI, USA	SOIL SCIENCE	MSc. AGRONOMY
READING, UK	WEED SCIENCE	PhD.

RESEARCH EXPERIENCE

- January 2005 to February 2007. *Striga* Management Project entitled “*Striga* control in western Kenya: Raising awareness, containing and reducing the infestation and developing strategies for eradication” in collaboration with SCODP, SACRED Africa TSBF-CIAT, Maseno University, Moi University and FORMAT to the tune of US\$ 35,1154.00**
- 01 October 2002 to 31 December 2005.** DIFID funded project on “Integrated pest and soil management to combat *Striga*, stemborers and declining soil fertility in the Lake Victoria basin” in Kenya, Uganda, Tanzania to the tune of **£283,650.00**
- 1995-1997: Principal Investigator in the project titled “Studies on witchweed (*Striga hermonthica* (DEL.) BENTH) seed longevity and maize (*zea mays*) productivity under different management systems in Kenya” funded by Rockefeller Foundation. US\$. 26,900
- 2000 – 2002: Co-Investigator** in the project entitled “**Studies On Effects Of Maize And Sesame Mixed And Rotation Cropping Systems On *Striga* Infestation**” funded by ROCKEFELLER FOUNDATION. **US\$. 66,760**
- 2004-2007: Co-Investigator in the project** titled “*Striga* Control in Western Kenya: Raising awareness, containing and reducing the infestation and developing strategies for eradication” funded by AATF. US\$. 57,942.
- 2008: **Co-Investigator in the project** titled “The *Striga* Technology Extension Project (STEP)” funded by AATF. US\$. 329,384
- 2010: Principal Investigator** in the project entitled “**Integrated *Striga* control and improved soil health in western Kenya**” funded by AATF. **US\$. 132,300**
- 2010-2012: Principal Investigator**, in the project titled “**Unlocking cereal production by Eliminating *Striga* threat and improving soil health in Western Kenya**” funded by Kilimo Trust. **US\$. 124,922.**
- 2011: Principal Investigator** in the project titled “**Scaling Up Commercialization and Adoption of WS 303 Maize Variety in Western Kenya**” funded by AATF. **US\$. 42,000**
- 2012: Principal Investigator** in the project titled “**Scaling Up Commercialization and Adoption of WS 303 Maize Variety in Western Kenya**” funded by AATF. **US\$. 67,320**
- 2012: Principal Investigator** in the project titled “**BASF support to *Striga* control project**” funded by BASF. **€. 10,000.**
- 2014: Consultant** to conduct situational analysis of ‘Humidtropics program’ covering production systems and natural resource management and environment in the West Kenya action site for International Livestock Research Institute, Nairobi from 26th March to 23rd June 2014 funded by ILRI. **US\$. 21,000.00.**
- 2014-2015: Co PI in the project** "Enhancing capacity of Maseno University Seed Unit to deliver to market resilient new maize varieties in western Kenya" funded by Land O' Lakes. KES. 4,891,855.

14. **2014-2015: Principal Investigator.** "Integrated soil fertility management for striga control and enhanced system productivity in western Kenya". funded by IITA. **US\$. 50,000.00**
15. **2018-2020: Principal Investigator** Mitigation of Climate Change Through Sustainable Integration of Maize Based Agro-Forestry Systems for Food Security and Poverty Reduction in Western Kenya. **Funded by NRF. KES. 10,234,620.00.**
16. **2020-2025: UPSCALE THE BENEFITS OF PUSH-PULL TECHNOLOGY FOR SUSTAINABLE AGRICULTURAL INTENSIFICATION IN EAST AFRICA. FUNDED BY EU €. 477,450.00**

TEACHING EXPERIENCE

2003 to Date

HONORS AND AWARDS

PROFESSIONAL MEMBERSHIP

International Weed Science Society

SKILLS AND TRAINING

INTRODUCTION TO GIS AND PC ARC/INFO 3.41:February 28 to March 11, 1994.

COMPUTER SKILLS: MsWord, MsExcel, SAS, Mstac and Word Perfect, SPSS.

LEADERSHIP EXPERIENCE

1. **Dean, School of Agriculture and Food Security from October 2014 to date**
2. **Chairman, Department of Applied Plant Science from March 2012 to October 2014.**
3. **Coordinator, timetable and examination from 1st February 2004 to January 2006**
4. **Coordinator, industrial attachment and field trips for department from March 2005 to 2014**
5. **Chairman, Ad Hoc committee on restructure of course/programs in 2005 to 2007**
6. **Maseno University Acting Chairman, Department of Botany and Horticulture on 22nd October 2007 and between 17th to 30th April 2009**
7. **Chairman of Board of Management, Rapogi Secondary School from 2005 to 2012**
8. **Member, Board of Management, Rapogi Secondary School from 2005 to 2015**
9. **Patron, Rapogi Primary School from January 2003 to 2018.**
10. **Member of Kisumu Rural Constituency Food Security Committee from 10th April 2006 to date and presented a paper entitled "Analysis of Food Security in Kisumu Rural of Nyanza Province" during the workshop on Food Security as a measure of independence to democratic choices in Kisumu Rural Societies: The Case for Kisumu Rural Constituency organized at Kit Mikayi on the 10th April 2006.**

11. **National Technical Coordinator, Striga Research (25th November 1998 to date). This involves bringing together scientists conducting research and dissemination activities related to Striga weed in Kenya through annual meetings to avoid duplication.**
12. **Area Co-ordinator (Coastal Region), Fertilizer Use Recommendation Project (BMZ/GTZ funded) between 1987-1990.**
13. **Chairman of the Striga Working Group consisting of scientists from East and Central Africa conducting research on Striga weed between 1993-1994.**
14. **Principal Investigator, AHI sub-theme on IPM for controlling Striga in Emuhaya, Vihiga district in collaboration with ICRAF. As the team leader of a multidisciplinary team of scientist, it was my responsibility to ensure coordination and ensure that our dissemination strategy to farmers is well organized and was responsible for the management of the funds. This activity had an inbuilt monitoring and evaluation component and was conducted in a participatory way with the clients.**
15. **A member of the Steering Committee of the System-Wide Programme on Integrated Pest Management (SP-IPM) pilot site project in Lambwe Valley, western Kenya from January 2000 to 2002. This is a partnership between ICIPE, KARI, MoARD, CIMMYT, ICRISAT, CABI INTERNATIONAL, CARE-KENYA AND CATHOLIC DIOCESE of HOMABAY in the dissemination of best-bet IPM technologies to control Striga weed and stem borers in maize. The basic concept is for several IARCs, working with NARES to bring together their best-bet IPM technologies at selected sites in Africa in a participatory process with farmers**
16. **Acting Centre Director, National Sugar Research Centre-Kibos, August 24th to 28th 1998.**
17. **Acting Centre Director, National Fibre Research Centre-Kibos, December 21st 2001 to 31st**

CONFERENCES AND WORKSHOPS

1. **McVay K.A., J.A. Stecker, D.D. Buchholz, and G.D. Odhiambo. 1991.** Nitrogen sources and placement under no-till corn. *Agronomy Abstracts* p. 361.
2. **Odhiambo, G.D. and J.K. Ransom. 1991.** Effect of nitrogen and cowpea intercropping on the development of *Striga* in maize. *Proceedings of the East African Weed Science Society*. pp. 30-32
3. **Ransom, J.K. and G.D. Odhiambo. 1991.** Early maturing genotypes avoid *Striga* parasitism. *Agronomy Abstracts*. p.65.
4. **Odhiambo, G.D. and J.K. Ransom. 1992.** Components of an integrated *Striga* control program. *International Crop Science Congress Abstracts* p. 71., Ames, Iowa, USA.
5. **Odhiambo, G.D. and J.K. Ransom. 1993.** Preliminary evaluation of long-term effects of trap cropping and maize management on *Striga*. In: A.H. Pieterse, J.C.A. Verkleij and S.J. ter Borg, *Biology and management of Orobanchae*, *Proceedings of the Third International Workshop on Orobanchae and related Striga research*. Amsterdam, The Netherlands, Royal Tropical Institute, pp. 505-512.

6. **Ransom, J.K. and G.D. Odhiambo. 1993.** Long-term effects of fertility and hand-weeding on *Striga* in maize. In: A.H. Pieterse, J.C.A. Verkleij and S.J. ter Borg. Biology and management of *Orobanche*, Proceedings of the Third International Workshop on *Orobanche* and related *Striga* research. Amsterdam, The Netherlands, Royal Tropical Institute, pp. 513-519.
7. **Baltus, P.C.W., J.K. Ransom, G.D. Odhiambo, W.S. Egbers, S.J. ter Borg, J.A.C. Verkleij and A.H. Pieterse. 1993.** A comparative study on the defence mechanism(s) of the maize variety 'Katumani' against *Striga hermonthica* under field conditions in Kenya. In: A.H. Pieterse, J.C.A. Verkleij and S.J. ter Borg, Biology and management of *Orobanche*, Proceedings of the Third International Workshop on *Orobanche* and related *Striga* research. Amsterdam, The Netherlands, Royal Tropical Institute, pp. 373-381.
8. **Kamau G.M., E.N. Gacheru, H.M. Saha, G.D. Odhiambo, and J.K. Ransom. 1993.** Effect of nitrogen and weeding treatments on maize grain yields in the coastal region of Kenya. Farrell, G, J.M. Onsando and N. Njeru eds. Proceedings of the 14th Biennial Weed Science Society for Eastern Africa Conference, October 1993. Arusha, Tanzania. pp. 22-27.
9. **Ransom, J.K. and G.D. Odhiambo. 1992.** Long-term effects of fertility, stover removal and hand-weeding on *Striga* control in maize. African Crop Science Conference Proceedings, Vol. 1 pp. 217-219.
10. **Odhiambo, G.D. and J.K. Ransom. 1994.** Long-term strategies for *Striga* control. In: Jewell D.C., S.R. Waddington, J.K. Ransom, and K.V. Pixley (eds). 1995. Maize Research for Stress Environments. Proceedings of the Fourth Eastern and Southern Africa Regional Maize Conference, held at Harare, Zimbabwe, 28 March - 1 April 1994. Mexico D.F. CIMMYT. pp 263-266.
11. **Odhiambo, G.D. and J.K. Ransom. 1996.** Effect of continuous cropping with trap crops and maize under varying management systems on the restoration of land infested with *Striga hermonthica*. In: Moreno, M.T., J.I. Cubero, D. Berner, D. Joel, L.J. Musselman, and C. Parker (eds). Advances in parasitic Plant Research. Proceedings Sixth International Parasitic Weed Symposium, Cordoba, Spain, April 16-18, 1996. pp. 835-841.
12. **Ransom, J.K., G.D. Odhiambo, R.E. Eplee and A.O. Diallo. 1996.** Estimating from fields of the phytotoxic effects of *Striga* spp. on maize. In: Moreno, M.T., J.I. Cubero, D. Berner, D. Joel, L.J. Musselman, and C. Parker (eds). Advances in parasitic Plant Research. Proceedings Sixth International Parasitic Weed Symposium, Cordoba, Spain, April 16-18, 1996. pp. 327-333.
13. **Pieterse A.H., J.C.A. Verkleij, N.G. Den Hollander, G.D. Odhiambo and J.K. Ransom. 1996.** Germination and viability of *Striga hermonthica* seeds in Western Kenya in the course of the long rainy season. In: Moreno, M.T., J.I. Cubero, D. Berner, D. Joel, L.J. Musselman, and C. Parker (eds). Advances in parasitic Plant Research. Proceedings Sixth International Parasitic Weed Symposium, Cordoba, Spain, April 16-18, 1996. pp. 457-464.
14. **Abayo, G.O., J.K. Ransom, J. Gressel, and G.D. Odhiambo. 1996.** *Striga hermonthica* control with acetolactase synthase inhibiting herbicides applied to maize seed with target-site resistance. In: Moreno, M.T., J.I. Cubero, D. Berner, D. Joel, L.J. Musselman, and C. Parker (eds). Advances in parasitic Plant Research. Proceedings Sixth International Parasitic Weed Symposium, Cordoba, Spain, April 16-18, 1996. pp. 763-768.
15. **Pieterse A.H., Schoenmakers, F., Scheppers, P., Yehouenou, A., Ransom, J.K., Odhiambo, G.D., Egbers, P.C.W., Baltus, P.C.W., ter Boeg, S.J., and Verkleij, J.A.C. 1993.** A comparative study of the parasitic weed *Striga hermonthica* (Del.) Benth. regarding seed dormancy and sowing date of the host crop in Benin and Kenya. In A.H. Pieterse (ed.), Studies on the Biology and ecology of the parasitic weed *Striga* in connection with integrated control schemes. Royal Tropical Institute, February 1993: 49-65.
16. **Ransom, J.K., G.D. Odhiambo, and J. Gressel, 1995.** Seed dressing corn with imidazolinone herbicide to control *Striga hermonthica* (Del.) Benth. Weed Science Society of America. Abstracts 35:15.
17. **Odhiambo, G.D. 2000.** Progress in *Striga hermonthica* control in Eastern Africa. Proceedings of the 3rd International Weed Science Society Congress (IWSC) held at Foz Do Iguassu, Brazil from 6-11 June 2000. Abstracts 261:540.
18. **Odhiambo, G.D. 1999.** *Striga* research activities at KARI, Kenya. B.I.G. Haussmann, D.E.

- Hess, M.L. Koyama, L. Grivet, H.F.W. Rattunde, and H.H. Geiger (eds). 2000. Breeding for *Striga* resistance in cereals. Proceedings of a workshop held at IITA, Ibadan, Nigeria, from 18-20 August 1999. Margraf Verlag, Weikersheim, Germany. Pp.339.
19. **Odhiambo, G.D., Ransom, J.K. and Sjogren, H. 2000.** On-farm demonstration of the interaction between organic amendments and fertilizer N to control *Striga* and improve soil fertility for higher maize productivity. Proceedings of the 18th Soil Science Society of East Africa Conference, Mombasa, Kenya, 4th - 8th December, 2000.
 20. **Odhiambo G.D.** and P.L. Woomer. **2005.** *Striga* emergence and seed bank dynamics under different maize management practices in western Kenya. African Crop Science Conference Proceedings, Vol. 7. pp. 473-477.
 21. Woomer, P.L., J. Tungani, **G. Odhiambo** and F.M. Mwaura. **2005.** *Striga* management options in western Kenya. African Crop Science Conference Proceedings, Vol. 7. pp. 479-484.
 22. Okalebo, J.R., **G. Odhiambo**, P.L. Woomer, M. Omare, M.Thuita, M. Maina and A. Njoki. **2005.** A preliminary investigation of the effect of soil fertility on *Striga* weed infestation in maize fields in western Kenya. African Crop Science Conference Proceedings, Vol. 7. pp. 495-498.
 23. Rutto, E., H. De Groote, B. Vanlauwe, F. Kanampiu, **G. Odhiambo**, Z. Khan. **2005.** Farmers' perceptions and evaluation of integrated approaches to combat *Striga*, stemborer and soil fertility problems in western Kenya. Paper presented at the 7th African Crop Science Conference, Entebbe, Uganda, 5-9th December 2005
 24. **Odhiambo, G. D**, Kwach J. K.; Dida, M. M.; Gichuki, S. T. **2009.** Effect of diseases and pests on dry matter yield of improved sweetpotato varieties in western Kenya. Paper presented at the 9th Horticultural Association of Kenya Conference, 2nd – 5th December 2009, Snowcrest Hotel, Arusha, Tanzania. Book of abstracts, pp17.
 25. Kwach J. K., **Odhiambo, G. D.**; Dida, M. M, Gichuki, S. T. **2009.** Participatory selection of sweetpotato [*Ipomoea batatas* (L.) Lam.] cultivars using Mother and Baby trial in western Kenya. Paper presented at the All Africa Horticultural Congress, 31st August -3rd September 2001, Safari Park Hotel, Nairobi, Kenya.
 26. **Odhiambo G.D.**, Ogola A.H. , Okalebo R. and Muyekho F. **2012.** Interaction between phosphorus and desmodium on *Striga hermonthica* (Del.) Benth incidence and maize yield in western Kenya. Proceedings of the 6th International Weed Science Congress. Abstracts p. 104. 17-22 June 2012, Hangzhou, China.

PUBLICATIONS

1. **Gacheru, E.N., G.M.Kamau, H.M.Saha, G.D.Odhiambo, and M.K. O'Neill. 1992.** Effect of land preparation and weeding on maize (*zea mays*) grain yield in the coastal region of Kenya. International Journal of Pest Management 39:57-60.
2. **Odhiambo, G.D. and J.K. Ransom. 1993.** Effect of dicamba on the control of *Striga hermonthica* in maize in western Kenya. African Crop Science Journal. Vol.1 (2):105-110.
3. **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.
4. Ransom, J.K. and **G.D. Odhiambo. 1995.** Effect of Corn(*Zea mays*) genotypes which vary in maturity length on *Striga hermonthica* parasitism. Weed Technology. 9:63-67.
5. O.O. Babalola, Osir E.O., Sanni A.I., **Odhiambo G.D.**, and Bulimo W.D (**2003**) Amplification of 1-amino-cyclopropane-1-carboxylic (ACC) deaminase from plant growth promoting rhizobacteria in *Striga*-infested soil. African Journal of Biotechnology 2(6): 157-160. <http://www.academicjournals.org/AJB>.

6. O.O. Babalola, Sanni A.I., and **Odhiambo G.D. (2004)** Isolation of rhizobacteria associated with maize and assessment of their potential for use in *Striga hermonthica* (Del.) Benth. suicidal germination. Journal of Tropical Microbiology and Biotechnology 3 (1): 64 – 70.
7. Babalola O.O, Sanni A.I, **Odhiambo G.D.**, and Baldwin T. (2006) Plant growth-promoting rhizobacteria do not pose any deleterious effect on cowpea and detectable amounts of ethylene are produced. World Journal of Microbiology and Biotechnology (Netherlands). DOI: 10.1007/s11274-006-9290-6.
8. Manyong V.M., Arega D. Alene, **G. D. Odhiambo**, H.D. Mignouna, M. Bokanga, G. Omanyana, and S.J. Nindi. **2007**. Livelihood strategies of resource-poor farmers in *Striga*-infested areas of western Kenya. Paper presented at the African Association of Agricultural Economists conference in August 2007, Accra, Ghana.
9. Babalola, O.O and **G.D.Odhiambo. 2007**. *Klebsiella oxytoca* ‘10mkr7’ stimulates *Striga* suicidal germination in *Zea mays.*, Journal of Tropical Microbiology and Biotechnology. (2) 13-19.
10. Vanlauwe, B. F. Kanampiu, **G.D. Odhiambo**, H. De Groote, L.J. Wadhams and Z.R. Khan. **2008**. Integrated management of *Striga hermonthica*, stemborers, and declining soil fertility in western Kenya. Field Crops Research 107 (2008) 102-115.
11. Arega D.A., Manyong’ V.M., Omanyana G., Mignouna H.D., Bokanga M., **Odhiambo G.D. 2008**. Economic Efficiency and Supply Response of Women as Farm Managers: Comparative Evidence from Western Kenya. World Development Vol. 36 (7):1247-1260
12. Arega D.A., Manyong’ V.M., Omanyana G., Mignouna H.D., Bokanga M., **Odhiambo G.D. 2008**. Smallholder market participation under transactions costs: Maize supply and fertilizer demand in Kenya. Journal of Food Policy 33:318-328
13. H. De Groote, B. Vanlauwe, Rutto, E., **G. Odhiambo**, F. Kanampiu, , Z. Khan, **2009**. Economic analysis of different options in integrated pest and soil fertility management in maize cropping systems of western Kenya. Agricultural Economics 41(2010) 471-482
14. H. De Groote, Rutto, E., **G. Odhiambo**, F. Kanampiu, , Z. Khan, Coe R. and B. Vanlauwe,. **2009**. Participatory evaluation of integrated pest and soil fertility management options using categorical data analysis. Agricultural Systems 103(2010) 233-244
15. Johnson K. K., S. T. Gichuki, M. M. Dida and **G. D. Odhiambo. 2009**. Multi-locational On - Farm Evaluation of Sweet potato varieties for commercial and domestic use. EAAFJ Vol. 75(1&2): 127-138.
16. Obongoya, B.O., Wagai, S.O. and **G. Odhiambo. 2009**. Fungitoxic Properties of four crude plant extracts on *Fusarium Oxysporium* SCHL.F. SP PHASEOLI. African Journal of Food, Agriculture, Nutrition and Development. Vol. (9) 8:1652-1666.
17. Obongoya, B.O., Wagai, S.O. and **G. Odhiambo. 2010**. Phytotoxic effect of selected crude plant extracts on soil-brne fungi of common bean. African Crop Science Journal Vol. 18, No. 1-15-22
18. Kwach J. K.; **Odhiambo, G. D.**; Dida, M. M.; Gichuki, S. T. **2010**. Participatory consumer evaluation of twelve sweetpotato varieties in Kenya. African Journal of Hort. Sci. (2010) 3:81-97)
19. Achieng, J. O., Ouma, **G., Odhiambo** and Muyekho, **2010**. F. Effect of farmyard manure and inorganic fertilizers on maize production on Alfisols and Ultisols in Kakamega, western Kenya Agric. Biol. J.N. Am. 2010 1(4): 430-439
20. Achieng, J. O., Ouma, G., **Odhiambo, G.** and Muyekho, F. **2010**. Effect of tithonia diversifolia and inorganic fertilizers on maize yield on Alfisols and Ultisols of western Kenya. 2010. Agric. Biol. J. N. Am., Vol 1(5): 740-747
21. Joel Ransom, Fred Kanampiu, Jonathan Gressel, Hugo De Groote, Michael Burnet, and

- George Odhiambo 2012.** Herbicide Applied to Imidazolinone Resistant-Maize Seed as a *Striga* Control Option for Small-Scale African Farmers. *Weed Science*, 60(2):283-289.
22. Ogola A. H., **Odhiambo G.D**, Okalebo J.R. and Muyekho F.N. **2012.** Influence of Phosphorus on Selected Desmodium Growth And Nodulation Parameters. *Journal of Agric. and Biological Sciences*. Vol. 7(5); 1-9.
23. Chumba R.B.K, Owuor B, Mwai G.N., **Odhiambo G.D.**, Netondo G.W. **2012.** Yield advantage of maize and Artemisia intercrops in a sub-humid eco-zone of Western Kenya. *J. Biol. & Env. Sci.* Vol 2(12): 41-55.
24. Chumba, RKB, Owuor B, **Odhiambo G.D.** and Netondo GW. 2012. Competitive and Complimentary effects of Artemisia (*Artemisia annua* L.) and Maize (*Zea mays* L.) intercropping in a sub-humid Ecozone of Maseno, Kenya. *E. Afr. Agric. For. J.* 78(1):5
25. Ogola A.H., **Odhiambo G.D.**, Okalebo R. and Muyekho. 2012. Effect Of Phosphorus And Desmodium Root Exudates On *S.Hermonthica (Del.) Benth* Seed Germination And Viability. *E. Afr. Agric. For. J.* 78(1):89-96
26. **Odhiambo G. D., Maraga J. N., Oyunge D. O., Aloit C. 2013.** Farmers Perception and its Influence on Adoption of *Striga* Management Technologies in Western Kenya. *Journal of Agricultural Economics and Development*. Vol. 2(5): 175-183.
27. **Unachukwu Nn, Menkir A, Rabbi Iy, Oluoch M, Muranaka S, Elzein A, Odhiambo G, Farombi Eo & Gedil M (2017).** Genetic diversity and population structure of *Striga hermonthica* populations from Kenya and Nigeria. *Weed Research* 57, 293–302.
28. Ouma George, **George Duncan Odhiambo**, Samuel Wagai and Johnson Kwach. **2019.** An analysis of socioeconomic factors affecting avocado production in saline and flooded areas around Lake Victoria Basin of Western Kenya. *Afr. J. Agric. Res.* Vol. 14(35), pp. 2048-2061.
29. Robert O. Nyambati¹, **Duncan G. Odhiambo**, Cornelius K. Serrem³ Caleb O. Othieno and Frank S. Mairura. **2020.** Effects of Integrated Use of Calliandra calothyrsus and Maize Stover with Urea on Soil Mineral Nitrogen, Striga Infestation and Maize Yields in Western Kenya. *Journal of Experimental Agriculture International*, 42(1): 1-11, 2020;