

Curriculum Vitae

Osuga Isaac Maina

Department of Agricultural Resource Management,
School of Agriculture and Enterprise Development,
Kenyatta University,

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Personal Particulars:

Date of Birth: 1976, February 24th
Nationality: Kenyan
Gender: Male
Marital status: Married
Language: English, Swahili (reading, writing, listening and speaking),
Japanese (Listening and speaking, writing and reading
Katakana and Hiragana).
Profession: Animal Scientist – Animal Nutritionist

Education

University education

Apr. 2005 – Mar. 2008 **Doctor of Philosophy (Ph.D.)** – Tottori University, Japan.
Subject: Animal Nutrition and Feed Resources Utilization.
Thesis: The Nutritive value of Tree and Shrub Forages as
Supplements to Low Quality Basal Diets for
Ruminants in Kenya.

Apr. 2005 – Mar. 2005 **Master of Science (M.Sc.)** – Agriculture - Shimane
University, Japan.
Subjects: Ruminant Nutrition (Major) and Non-ruminant
Nutrition (Minor).
Thesis: Evaluation of the nutritive value of some browse
species from Kenya.

- Oct. 2002-Mar. 2003** Research student at Shimane University, Japan.
Subjects: Special Techniques in Animal Nutrition Research and Japanese Language Course.
- Sep. 2001-Sep. 2002** Postgraduate (M.Sc.) Student at Egerton University, Kenya.
- November, 2000** **Bachelor of Science (First Class Hons)** - Animal Production - Egerton University, Kenya.
- Secondary education*
- 1990 – 1993** Kenya Certificate of Secondary Education (KCSE) at Matongo High School, Kenya.
- Primary education*
- 1982 – 1989** Kenya Certificate of Primary Education (KCPE) at Gesura primary School, Kenya.
- Professional Experience**
- October 2009 – present** **Lecturer** in the Department of Agricultural Resource Management, School of Agriculture and Enterprise Development, **Kenyatta University, Kenya.**
- Sep 2009** **Ag. Chairman**, Department of Agricultural Sciences in the Faculty of Agriculture and Environmental Science, **Chuka University College, Kenya.**
- July 2009 – Sep. 2009** **Lecturer** in the Faculty of Agriculture and Environmental Science, **Chuka University College, Kenya.**
- Mar. 2008 – May 2009** **Part-time Lecturer**, Department of Animal Sciences, Faculty of Agriculture, **Egerton University, Kenya.**
- Apr. 2005 – Mar. 2008** Graduate research “The Nutritive value of Tree and Shrub Forages as Supplements to Low Quality Basal Diets for Ruminants in Kenya” at Tottori University, Japan.
- Apr. 2003 – Mar. 2005** Graduate research “Evaluation of the nutritive value of some browse species from Kenya” at Shimane University, Japan.
- Oct. 2002 – Mar. 2003** Techniques in animal nutrition research at Shimane University, Japan.
- May 2000 – Aug. 2001** Teacher (Agriculture and Biology) at Kebabe Girls secondary school, Nyamira, Kenya.

Teaching and Research

Undergraduate

- Teach animal production and management courses, basic animal sciences courses, statistical analysis courses and supervision of student projects.

Postgraduate

- Teach Biometry – research and statistical methods
- Teach Animal Nutrition and Management courses.
- Teach Animal production courses
- Supervision of MSc and Ph.D. student research projects.

Postgraduate student supervision

1. Irene Munene (MSc) - Adoption of Rabbit Farming Enterprise in Periurban Areas: The Case Of Ruiru District Kenya – on-going.
2. Supervision of 8 MSc - providing overall biometrical support.

Projects

- Enhancing the productivity of crop and livestock production in Mandera County, Kenya (KShs. 5,000,000 by NSCT) – **on-going**.
- Indigenous browse mixture supplements for enhanced goat production in marginal areas of Kenya (Kshs. 1,000,000 by NCST) – **on-going**.

Departmental Responsibilities

1. **School Website Coordinator** – in-charge of school content and web design for the school of agriculture.
2. Departmental curriculum Coordinator
3. Departmental Examinations Coordinator
4. Departmental ODeL Coordinator

Awards and Scholarships

- | | |
|------------------------------|---|
| Sept. 2006 | Young scientist award by the Japanese Society of Animal Science for travel, registration and accommodation to attend and present a paper at the 2006 AAAP congress in Busan, South Korea. |
| Apr. 2005 – Mar. 2008 | Japanese Government (MEXT) Scholarship for Doctoral studies. |

- Apr. 2003 – Mar. 2005** Japanese Government (MEXT) Scholarship for Master studies.
- Sept. 2004** Young scientist award by the Japanese Society of Animal Science for travel, registration and accommodation to attend and present a paper at the 2004 AAAP congress in Kuala Lumpur, Malaysia.
- Oct. 2002 – Mar. 2003** Japanese Government (MEXT) Scholarship – research student.

PROFESSIONAL AFFILIATIONS

Animal Production Society of Kenya.
 Japanese Society of Animal Science.

OTHER ACTIVITIES

- Apr. 2004 – Mar. 2005** Secretary General – Shimane University International Students and Researchers Association.

PUBLICATIONS

Papers in Refereed Journals

1. Wambui C. C., S. Ando, S. A. Abdulrazak, **I. M. Osuga** and T. Ichinohe. 2012. In vitro assessment of ruminal fermentation characteristics of tropical browse mixtures supplemented with yeast. *Grassland Science*, 58: 53-57.
2. **Osuga I. M.**, S. A. Abdulrazak, Charles I. Muleke and T. Fujihara. 2012. Potential Nutritive Value of Various Parts of Wild Sunflower (*Tithonia diversifolia*) as Source of Feed for Ruminants in Kenya. *Journal of Food, Agriculture and Environment*, (accepted for publication).
3. **Osuga I. M.**, S. A. Abdulrazak, C. I. Muleke and T. Fujihara. 2011. Effect of supplementing Rhodes grass hay (*Chloris gayana*) with *Berchemia discolor* and *Zizyphus mucronata* on the performance of growing goats in Kenya. *Journal of Animal Physiology and Animal Nutrition*, (available online (early view) – DOI: 10.1111/j.1439-0396.2011.01189.x
4. **Osuga I. M.**, C. C. Wambui, S. A. Abdulrazak, T. Ichinohe and T. Fujihara. 2008. Evaluation of nutritive value and palatability by goats and sheep of selected browse foliages from semi-arid area of Kenya. *Animal Science Journal*, 79 (5): 582-589.

5. **Osuga, I. M.,** C. N. Maindi, N, Nishino, S. A. Abdulrazak, T. Ichinohe and T. Fujihara. 2007. Potential nutritive value and tannin bioassay of selected *Acacia* species from Kenya. *Journal of the Science of Food and Agriculture*, 87 (8):1533–1538.
6. **Osuga, I. M.,** S. A. Abdulrazak, N, Nishino, T. Ichinohe and T. Fujihara. 2006. Potential nutritive value of selected browse species from Kenya using *in vitro* gas production technique and polyethylene glycol. *Livestock Research for Rural Development*, 18 (12) <http://www.cipav.org.co/lrrd/lrrd18/12/osug18171.htm>
7. **Osuga, I. M.,** S. A. Abdulrazak, T. Ichinohe, J. O. Ondiek and T. Fujihara. 2006. Degradation characteristics and tannin bioassay of some browse forages from Kenya harvested during the dry season. *Animal Science Journal*, 77 (4): 414-421.
8. **Osuga, I. M.,** S. A. Abdulrazak, T. Ichinohe and T. Fujihara. 2006. Rumen degradation and *in vitro* gas production parameters in some browse forages, grasses and maize stover from Kenya. *Journal of Food, Agriculture and Environment*, 4 (2): 60-64.
9. **Osuga, I. M.,** S. A. Abdulrazak, T. Ichinohe and T. Fujihara. 2005. Chemical composition, degradation characteristics and effect of tannin on digestibility of some browse species from Kenya harvested during the wet season. *Asian-Australasian Journal of Animal Science*, 18 (1): 54-60.

Papers in Conference Proceedings

1. **Osuga, I.M.,** I. H. Issak, S. A. Abdulrazak, and T. Fujihara. 2011. Effect of Polyethylene Glycol on Gas Production and Degradability of Selected *Acacia* Species. 4th National Conference on the Dissemination of Research Results, 3rd-6th May, 2011, KICC, Nairobi, Kenya.
2. I. H. Issak, **I. M. Osuga** and S. A. Abdulrazak. 2011. Nutritive Evaluation of Some Roughages and Supplementary Feeds Fed to Dairy Heifers in The Tropics: A Case Study on a large -Scale Dairy Farm in Kenya. 4th National Conference on the Dissemination of Research Results, 3rd-6th May, 2011, KICC, Nairobi, Kenya
3. Wambui C.C., **I. M. Osuga**, S. Ando, S. A. Abdulrazak, I. H. Issak and T. Ichinohe. 2011. Effect of Two Yeast Supplements on *In vitro* Ruminal Degradability of Selected Browse Species from Kenya. 4th National Conference on the Dissemination of Research Results, 3rd-6th May, 2011, KICC, Nairobi, Kenya.
4. **Osuga, I.M.,** S. A. Abdulrazak, T. Ichinohe and T. Fujihara. 2010. Performance of Indigenous Goats Fed Grass Hay Supplemented With Browse Forages from

- Arid and Semi-Arid Area of Kenya. 3rd National Conference on the Dissemination of Research Results, 3rd-7th May, 2010, KICC, Nairobi, Kenya.
5. **Osuga, I.M.**, C.C. Wambui, S.A. Abdulrazak, T. Ichinohe and T.Fujihara. 2007. Goat and sheep preference rating of selected tree and shrub forages from Kenya. Annual Animal Production Society of Kenya Scientific Symposium, 15th-16th, March, 2007, KARI – Mtwapa, Kilifi, Kenya.
 6. **Osuga, I.M.**, C.C. Wambui, S.A. Abdulrazak, T. Ichinohe and T.Fujihara. 2007. Nutritive value of selected multipurpose tree and shrub forages using *in vitro* gas production technique and polyethylene glycol. Annual Animal Production Society of Kenya Scientific Symposium, 15th-17th, March, 2007, KARI – Mtwapa, Kilifi, Kenya.
 7. **Osuga, I. M.**, S. A. Abdulrazak, T. Ichinohe and T. Fujihara. 2006. Effect of polyethylene glycol (PEG) on gas production and degradability of selected browse forages from Kenya. AAAP 2006, 18th-22nd September, 2006, Busan, Korea.
 8. **Osuga, I. M.**, C. C. Wambui, S. A. Abdulrazak, T. Ichinohe and T. Fujihara. 2006. Rumen degradation and *in vitro* gas production parameters in selected forages from Kenya. Annual Animal Production Society of Kenya Scientific Symposium, 8th-10th, March, 2006, Bomen Hotel, Isiolo, Kenya.
 9. **Osuga, I. M.**, S. A. Abdulrazak, T. Ichinohe and T. Fujihara. 2004. Chemical composition, *in vitro* gas production and tannin bioassay of some browse species from Kenya. In: New Dimensions and Challenges for Sustainable Livestock Farming, vol. II, (Wong, H. K., Liang, J. B., Jelani, Z. A., Ho, Y.W., Goh, Y. M., Panandam J.M. and Mohamad, W.Z. (eds.). The proceedings of the 11th Animal Science Congress, The Asian-Australasian Association of Animal Production Societies, 5-9th September 2004, Kuala Lumpur, Malaysia, pp361-363.
 10. **Osuga, I. M.**, J. O. Ondiek and S. A. Abdulrazak. 2001. Assessment of bovine raw quality milk at market and production levels in Njoro. Paper presented at Annual KARI-Egerton University Symposium on 'Dry land farming', November 2001, Egerton University, Kenya.