

List of publications

Peer reviewed journal articles

- Keding GB, Gramzow A, Ochieng J, Laizer A, Muchoki C, Onyango C, Hanson P and Yang RY (n.d.) **Nutrition integrated agricultural extension – a case study in Western Kenya**. Under review (second stage) at Journal of Health Promotion International.
- Kriesemer SK, Keding GB, Huluka AT, Dürr J (2021) **Leafy Vegetables Under Shade? Performance, Consumer Acceptance and Nutritional Contribution of Cowpea (*Vigna unguiculata* (L.) Walp.) Leaves in the Yayu Coffee Forest Biosphere Reserve in Southwest Ethiopia**. Sustainability, 13:2218. <https://doi.org/10.3390/su13042218>
- Waswa LM, Jordan I, Krawinkel MB and Keding GB (2021) **Seasonal Variations in Dietary Diversity and Nutrient Intakes of Women and Their Children (6–23 Months) in Western Kenya**. Frontiers in Nutrition, 8:636872. doi: 10.3389/fnut.2021.636872
- Sarfo J, Keding GB, Boedecker J, Pawelzik E and Termote C (2020) **The Impact of Local Agrobiodiversity and Food Interventions on Cost, Nutritional Adequacy, and Affordability of Women and Children's Diet in Northern Kenya: A Modeling Exercise**. Frontiers in Nutrition, vol 7, article 129, DOI:10.3389/fnut.2020.00129
- Ng'endo M, Bhagwat S and Keding GB (2018) **Challenges and Opportunities for Market Integration to Improve Food Security among Smallholder Farming Households in Western Kenya**. International Journal of Sociology of Agriculture & Food, 24(2):229–252.
- Keding GB, Kehlenbeck K, Kennedy G and McMullin S (2017) **Fruit production and consumption: practices, preferences and attitudes of women in rural western Kenya**. Food Security, 9(3):453–469. doi:10.1007/s12571-017-0677-z
- Ng'endo M, Bhagwat S and Keding GB (2017) **Contribution of Nutrient Diversity and Food Perceptions to Food and Nutrition Security Among Smallholder Farming Households in Western Kenya: A Case Study**. Food and Nutrition Bulletin, DOI: 10.1177/0379572117723135
- Ng'endo M, Bhagwat S and Keding GB (2016) **Influence of Seasonal On-Farm Diversity on Dietary Diversity: A Case Study of Smallholder Farming Households in Western Kenya**. Ecology of Food and Nutrition, DOI: 10.1080/03670244.2016.1200037
- Ng'endo M, Keding GB, Bhagwat S, Daley P and Kehlenbeck K (2015) **Variability of on-farm food plant diversity and its contribution to food security of smallholder farming households in Western Kenya**. Agroecology and Sustainable Food Systems. DOI: 10.1080/21683565.2015.1073206
- Waswa, LM, Jordan I, Herrmann J, Krawinkel M and Keding GB (2015) **Community-based educational intervention improved the diversity of complementary diets in western Kenya: results from a randomized controlled trial**. Public Health Nutrition, 18(18):3406-19. DOI:10.1017/S1368980015000920.
- Keding GB, Schneider K and Jordan I (2013) **Production and processing of foods as core aspects of nutrition-sensitive agriculture and sustainable diets**. Food Security, 5:825-846.
- Keding GB, Msuya JM, Maass BL and Krawinkel MB (2013) **Obesity as a public health problem of women in rural Tanzania**. Global Health: Science and Practice, 1(3): 359-371.
- Keding GB, Msuya JM, Maass BL and Krawinkel MB (2012) **Relating dietary diversity and food variety scores to vegetable production and socio-economic status of women in rural**

Tanzania. Food Security, 4(1): 129-140. DOI 10.1007/S12571-011-0163-Y.

Keding GB, Msuya JM, Maass BL and Krawinkel MB (2011) **Dietary patterns and nutritional health of women: The nutrition transition in rural Tanzania.** Food and Nutrition Bulletin, 32(3): 218-226.

Ludwig C, Keding GB, Msuya JM and Krawinkel MB (2011) **Introduction of fruits and vegetables into children's diets in the Iringa region, Tanzania.** Research Letter. Journal of Tropical Pediatrics, DOI 10.1093/tropej/fmr056.

Keding GB, Krawinkel MB, Maass BL, Virchow D and Msuya JM (2009) **Consumption of traditional and exotic vegetables and their perceived and real contribution to nutritional health in Tanzania.** Proc. IS on Underutilized Plants. Eds.: Jaenicke et al. Acta Hort. 806, ISHS, pp. 209-216.

Krawinkel MB, Keding GB, Chavez-Zander U, Jordan I und Habte T-Y (2008) **Eine umfassende Herausforderung (Teil 2): Welternährung im 21. Jahrhundert.** Biologie in unserer Zeit, 6/2008 (38), pp.382-389.

Krawinkel MB, Keding GB, Chavez-Zander U, Jordan I und Habte T-Y (2008) **Eine umfassende Herausforderung (Teil 1): Welternährung im 21. Jahrhundert.** Biologie in unserer Zeit, 5/2008 (38), pp.312-318.

Krawinkel MB and Keding GB (2006) **Bitter Gourd (*Momordica charantia*): A Dietary Approach to Hyperglycemia.** Nutrition Reviews. 64(7): 331-337.

Keller GB, Mndiga H and Maass BL (2006) **Diversity and genetic erosion of traditional vegetables in Tanzania from the farmer's point of view.** Plant Genetic Resources. 3(3): 400-413.

Book chapters / Scientific Briefs / Technical bulletin

Keding GB, Kriesemer SK, Etissa E, Gonfa T, Tesso A (2018) **Vegetable species for multi-storey cropping systems and human nutrition.** Production Guide, World Vegetable Center, 33p. <https://worldveg.tind.io/record/66281>

Keding GB, Termote C, and Kehlenbeck K (2017) **The role and importance of agricultural biodiversity in urban agriculture.** In: Hunter D, Guarino L, Spillane C, and McKeown P (eds.): Routledge Handbook of Agricultural Biodiversity. Routledge.

Keding GB (2016) **Nutrition Transition in Rural Tanzania and Kenya.** In: Biesalski HK, Black RE (eds): Hidden Hunger. Malnutrition and the First 1,000 Days of Life: Causes, Consequences and Solutions. World Rev Nutr Diet. Basel, Karger, 2016, vol 115, pp 61–74. DOI: 10.1159/000442073

Keding GB and Ng'endo M (2015) **Diversifying local agriculture: Agricultural diversity on smallholder farms and in local markets in Western Kenya.** Scientific Brief, Bioversity International, Rome, Italy.

Keding GB and Waswa LM (2015) **Diversifying local diets - Nutrition education for mothers/caregivers improved the diversity of complementary foods of children in Western Kenya.** Scientific Brief, Bioversity International, Rome, Italy.

Yang R-Y and Keding GB (2009) **Nutritional Contributions of Important African Indigenous Vegetables.** In: Shackleton, C.M., Pasquini, M.W. and Drescher A.W. (eds.) African Indigenous Vegetables in Urban Agriculture. Earthscan, London, UK.

Keding GB, Weinberger K, Swai IS and Mndiga H (2007) **Diversity, traits and usage of traditional vegetables in Tanzania**. Technical Bulletin No.40. Shanhua, Taiwan: AVRDC - The World Vegetable Center. 53 pp.

Other journal articles

Keding GB, Kriesemer SK, Debarry A, Schneider T und Dürr J (2018) **Ernährungssensible Landwirtschaft in Äthiopien – Das NutriHAF Projekt**. Ernährung im Fokus, 11-12 2018, pp.382-385.

Virchow D und Keding GB (2008) **Agrobiodiversität: Das Potenzial traditioneller Gemüsearten – Neues und altes Gemüse**. Afrikapost 3/2008, pp.32-33.

Keding GB and Krawinkel MB (2008) **Food Diversity from Plough to Plate: Linking Agrobiodiversity, Dietary Diversity and Micronutrient Supply**. Sight and Life Magazine, 3/2008, pp.23-27.

Keding GB und Jordan I (2008) **Adipositas: Ein Public-Health-Problem in Tansania**. Ernährung im Fokus, 8-10 2008, pp.372-377.

Oral and poster presentations

Ahmed A, Keding GB and Pawelzik E (2021) **Effect of pH and cooking time on shelf life of African nightshade leafy-based sauces**. Poster presentation at Power on Your Plate - All-Africa Summit on Diversifying Food Systems with African Traditional Vegetables to Increase Health, Nutrition and Wealth, 25-28 January, Arusha, Tanzania.

Sarfo J, Pawelzik E and Keding GB (2020) **Dietary Patterns and their Association with Overweight and Obesity among Rural Populations in East Africa**. Seminar presented at Tropentag 2020, 9-11 September, Virtual Conference. p.261.

Xing S, Keding GB and Pawelzik E (2020) **Developing and Testing Guava- and Jackfruit-Nut-Bars to Bridge Seasonal Food Gaps in East Africa**. Poster presented at Tropentag 2020, 9-11 September, Virtual Conference. p.274.

Ahmed A, Keding GB and Pawelzik E (2020) **Effect of Cooking Time on Quality Traits of Tanzanian Vegetable Sauces**. Seminar presented at Tropentag 2020, 9-11 September, Virtual Conference. p.227.

Ahmed A, Keding GB and Pawelzik E (2020) **Analysis of Leafy Vegetables for Antioxidant Activity, Ascorbic Acid and Nitrate in Morogoro, Tanzania**. Seminar presented at Tropentag 2020, 9-11 September, Virtual Conference. Book of Abstracts p.254.

Kriesemer SK and Keding GB (2018) **Leafy Vegetables under Shade? Performance of Cowpea (Vigna unguiculata (L.) Walp.) in a Multistorey Coffee Forest in Southwest Ethiopia**. Seminar presented at Tropentag 2018, 17-19 September, Ghent, Belgium. Book of Abstracts p.209.

Duerr J, Teshome A, Assefa B and Keding GB (2017) **Determinants of fruit and vegetable consumption diversity of smallholder farmers in Yayu biosphere reserve, SW-Ethiopia**.

Poster presented at the Global Food Security Conference, 3-6 December 2017, Capetown, South Africa.

Huluka AT, Abebie TG and Keding GB (2017) **An Assessment of Household Dietary Diversity and Vegetable Consumption: Case Study of Smallholder Farmers in Yaju Biosphere Reserve, Ethiopia**. Poster presented at Tropentag 2017, 20-22 September, Bonn, Germany. Book of Abstracts p. 423.

Sarfo J, Keding GB, Boedecker J, Pawelzik E and Termote C (2017) **The Impact of Wild Plant Foods in Reducing the Minimum Cost of a Nutritious Diet in Turkana, Kenya Using Linear Programming Modelling**. Poster presented at Tropentag 2017, 20-22 September, Bonn, Germany. Book of Abstracts p. 415.

Keding GB, Huluka AT, Kriesemer SK (2016) **Seasonal Food Availability Calendars for Designing Nutrition-Sensitive Agriculture in Ethiopia**. Seminar presented at Tropentag 2016, 18-21 September, Vienna, Austria. Book of Abstracts p. 517.

Keding GB, Kehlenbeck K and McMullin S (2015) **Fruit consumption and production: habits, preferences and attitudes of rural households in Western Kenya**. Poster presented at 2nd Hidden Hunger Congress, 3-5 March 2015, University of Hohenheim, Stuttgart, Germany (**1st poster prize**).

Keding GB (2015) **The Nutrition Transition in Tanzania and Kenya**. Invited seminar presented at 2nd Hidden Hunger Congress, 3-5 March 2015, University of Hohenheim, Stuttgart, Germany.

Werner A, Whitbread A, Kehlenbeck K, McMullin S and Keding GB (2014) **Assessment of On-Farm, Market, and Wild Food Diversity in Three Agro-Ecological Zones of Western Kenya**. Poster presented at Tropentag 2014, 17-19 September, Prague, Czech Republic. Book of Abstracts p. 339.

Waswa LM, Jordan I, Herrmann J, Krawinkel MB and Keding GB (2014) **Household Food Security and Dietary Diversity in Different Agro-Ecological Zones of Western Kenya**. Poster presented at Tropentag 2014, 17-19 September, Prague, Czech Republic. Book of Abstracts p. 454.

Waswa LM, Jordan I, Herrmann J, Krawinkel MB and Keding GB (2014) **Seasonal variations in women dietary diversity scores and relationship with nutritional status in rural Western Kenya**. Poster presented at 6th African Nutrition Epidemiology Conference (ANEC VI), 20th – 25th July 2014, Accra, Ghana.

Kipkorir J, Kimiywe J and Keding GB (2014) **Determinants of dietary intake in mothers and their children (6-23 months) in Western Kenya**. Poster presented at 6th African Nutrition Epidemiology Conference (ANEC VI), 20th – 25th July 2014, Accra, Ghana.

Waswa LM, Jordan I, Herrmann J, Krawinkel MB and Keding GB (2014) **The role of nutrition education in improving nutrition knowledge of caregivers and dietary diversity of complementary foods in Western Kenya**. Seminar presented at 51. Congress of the German Nutrition Society (DGE), 12-14 March 2014, Paderborn. Proc. Germ. Nutr. Soc. Vol. 19, pp.24.

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- Waswa L, Kipkorir J, Jordan I and Keding GB (2013) **Linking Agriculture and Nutrition: Dietary Diversity of Women and Children in Different Agro-ecological Zones of Western Kenya**. Seminar presented at Tropentag 2013, 17-19 September, Hohenheim, Germany. Book of Abstracts p. 88.
- Mundy O, Ng'endo M, Nuppenau E-A, Krawinkel M, Kehlenbeck K, Jordan I and Keding GB (2013) **Farmers' Perceptions of Agrobiodiversity in Western Kenya**. Seminar presented at Tropentag 2013, 17-19 September, Hohenheim, Germany. Book of Abstracts p. 152.
- Bender L, Fadda C and Keding GB (2013) **Challenges in Local Seed Systems — the Case of Vegetable and Legume Seeds in Western Kenya**. Seminar presented at Tropentag 2013, 17-19 September, Hohenheim, Germany. Book of Abstracts p. 403.
- Ng'endo M, Kehlenbeck K, Bhagwat S, Daley P and Keding GB (2013) **The Role of Markets in Food Availability and Market Integration among Smallholder Farmers: The Case of Western Kenya**. Poster presented at Tropentag 2013, 17-19 September, Hohenheim, Germany. Book of Abstracts p. 264.
- Kehlenbeck K, Bliault R, Imbumi M, McMullin S, Kindt R, Keding GB, Ramni J (2013) **Fruit trees on farms and their contribution to family nutrition: a case study from Busia County, Western Kenya**. Seminar presented at Hidden Hunger Conference, 6-9 March 2013, Hohenheim, Germany.
- Keding GB, Msuya JM, Maass BL and Krawinkel MB (2010) **Nutritional situation of women in rural Tanzania according to dietary diversity and food variety scores and its association to socio-economic variables and body mass index**. Poster presented at 4th Africa Nutritional Epidemiology Conference, 4-8 October 2010, Nairobi, Kenya.
- Ludwig C, Keding GB, Msuya JM and Krawinkel MB (2009) **Assessing vegetable and fruit consumption of infant and young children in Iringa District, Tanzania**. Ann Nutr Metab (suppl 1) p. 314.
- Keding GB, Msuya JM and Krawinkel MB (2009) **Dietary Patterns and their Associations to BMI and Socio-Economic Variables of Rural Women in Tanzania**. Ann Nutr Metab 55 (suppl 1) p. 562.
- Keding GB, Msuya JM, und Krawinkel MB (2009) **Ernährungsmuster von Frauen im ländlichen Tansania und deren Assoziation mit BMI und sozioökonomischen Variablen**. Seminar presented at 46. Congress of the German Nutrition Society (DGE), 12-13 March 2009, Giessen. Proc. Germ. Nutr. Soc. Vol. 13, pp. 22-23.
- Keding GB, Jordan I and Krawinkel MB (2008) **Adipositas als Public Health Problem in Entwicklungsländern – das Beispiel Tansania**. Poster presented at 45. Congress of the German Nutrition Society (DGE), 13-14 March 2008, Bonn, Germany. Proc. Germ. Nutr. Soc. Vol. 12 p. 35.
- Keding GB, Maass BL, Virchow D, Msuya JM and Krawinkel MB (2008) **Consumption of traditional and exotic vegetables and their perceived and real contribution to nutritional health in Tanzania**. Seminar presented at International Symposium Underutilized Plant Species for Food, Nutrition, Income and Sustainable Development, 3-7 March 2008, Arusha, Tanzania. Book of Abstracts p. 41.
- Keding GB, Maass BL, Virchow D and Krawinkel MB (2007) **Traditional and exotic vegetable diversity in the field and on the plate of women in two different agroecological zones of rural Tanzania**. Seminar presented at Deutscher Tropentag, 9-11 October 2007, Witzenhausen, Germany. Book of Abstracts p. 215.

- Keding GB, Swai IS and Maass B (2007) **Collecting, assessing and understanding traditional vegetable diversity: the case of “Mlenda” in Tanzania**. Poster presented at Botanikertagung, 3-7 September, Hamburg, Germany. Book of Abstracts p. 3.
- Keding GB, Swai IS and Virchow D (2007) **Traditional vs. exotic vegetables in Tanzania: producing, collecting and purchasing during dry and rainy season**. Seminar presented at the Fifth International Symposium on New Crops and Uses: Their Role in a Rapidly Changing World, 3-4 September 2007, Southampton, UK. Book of Abstracts p. 15.
- Keding GB, Virchow D and Krawinkel MB (2007) **Impact of vegetable diversity in the field and on the plate on iron-deficiency anaemia of women in rural Tanzania**. Poster presented at First FANUS meeting on Nutrition, Health and Human Development in Africa: Breaking the Downward Trend, 7-9 May 2007, Ouarzazate, Morocco. Book of Abstracts p. 14.
- Keller GB, Mndiga H and Maass BL (2004) **Production and consumption issues of traditional vegetables in Tanzania from the farmers’ point of view**. Seminar presented at Deutscher Tropentag, 5-7 October 2004, Berlin, Germany. Book of Abstracts p. 288.
- Keller GB, Mndiga H and Maass BL (2004) **Use of traditional vegetables in Tanzania: the case of wild *Corchorus* species (Tiliaceae)**. Seminar presented at Botanikertagung, 5-10 September 2004, Braunschweig, Germany. Book of Abstracts p. 344.