

# Estefanía Custodio Cereales

## PROFESSIONAL ACTIVITY

Sep 2020- to date	Scientific researcher at the <i>National Center of Tropical Medicine Instituto de Salud Carlos III (ISCIII)</i> Leading research line "Nutrition, resilience, and global Health"
Sep 2014- Aug 2020	Scientific researcher at the <i>Joint Research Center of the European Commission</i> ✓ Nutrition and Food Security
Jan 2012- Sep 2014	Scientific researcher at the <i>National Center of Tropical Medicine-Instituto de Salud Carlos III (ISCIII)</i> ✓ Nutrition and Neglected Tropical Diseases
Jan 2008- Jan 2012	Co-principal investigator and coordinator of UBS Optimus Foundation funded project "Malnutrition and Leishmaniasis in Amhara, Ethiopia" <i>Foundation for International Cooperation, Health and Social Policy</i>
June 2003- June 2007	Investigator and Technical Assistant in Nutrition and Public Health <i>National Center of Tropical Medicine - ISCIII</i> ✓ Design, implementation, supervision and analysis of the Nutrition and Health National survey in Equatorial Guinea.
Jan 2002- June 2004	Director and lecturer at American universities ( <i>New York University, Suffolk University and Syracuse University</i> ) with campus in Madrid <i>Key achievements:</i> Design of new courses related to nutrition, global health and cultural diversity. Syllabus, contents and teaching in English.

## EXPERIENCE IN SCIENTIFIC RESEARCH

### Projects

2024-2026	<i>Salud mental maternal perinatal y factores asociados en población rural del sur de Angola: impacto sobre los cuidados del niño y su nutrición</i> <b>Principal investigator</b>
2020-2025	<i>Operative research for chronic child malnutrition in Angola (CRESCER). Principal investigator of consortiums partner (ISCIII)</i>
2020-2024	<i>FOOD and local agricultural and nutritional diversity (FOODLAND)</i> <b>Scientific external advisor</b>
2017-today	<i>Assessing the use of anthropometric indicators for acute malnutrition surveillance in children from 27 countries. Principal investigator.</i>
2017-today	<i>Improving food security and nutrition indicators in Kenya through market incentives. Co-investigator.</i>
2017- 2020	<i>Minimum Dietary Diversity for Women as impact assessment indicator of nutrition sensitive interventions in the Guera region, Chad. Principal investigator and coordinator at JRC.</i>
2014-2018	<i>Food security resilience to shocks (RESIFOOD). Co-investigator.</i>
2014- 2020	<i>Technical and Scientific Assistance for Food Security and Nutrition. Co-investigator.</i>
2010-2014	<i>Lifestyle intervention (diet and physical activity) on the treatment of dyslipidemias in HIV children living in El Salvador. Principal Investigator.</i>
2008-2012	<i>Visceral Leishmaniasis and Malnutrition in Amhara State, Ethiopia. Co-principal investigator and coordinator.</i>
2007-2014	<i>Reference Centre for the Control of Endemic Diseases Control in</i>

	<i>Equatorial Guinea. Co-investigator.</i>
2004-2006	<i>Nutritional status and dietary habits of pre-school children in Equatorial Guinea: association with Plasmodium infection. Principal investigator.</i>
1999-2003	<i>Ecology of reproductive ageing: Evaluation of the differences between urban, rural and immigrant populations. Co-investigator.</i>
1999	<i>Epidemiology of stunting in Central America. Co-investigator.</i>

#### **International collaborations**

2018-today	Programme Division. Nutrition surveillance unit. UNICEF, New York, United States of America
2019-today	Statistics Division. FAO, Rome, Italy
2016-today	Food and Nutrition Division. FAO, Rome, Italy
2016-today	Direction de la Nutrition et de Technologie Alimentaire Ministry of Health, Ndjamena, Chad
2015-today	NUTRIPASS Institut de Recherche pour le Développement, Montpellier, France
2015-today	Food security and nutrition analysis unit (FSNAU) in Somalia Food and Agricultural Organization, Nairobi, Kenya
2015-2018	Cochrane Madrid Clinical Biostatistics Unit, Ramón y Cajal Hospital and Francisco de Vitoria University, Madrid, Spain
2014-2018	Leishmaniasis programme Drugs for Neglected Diseases Initiative (DNDI), Geneva, Switzerland
2010-2018	Center of Excellence for Children with Immunodeficiency National Children's Benjamin Bloom, San Salvador, El Salvador
2014-2018	Department of Neglected Tropical Diseases World Health Organization, Geneva, Switzerland
2003-2014	Reference Center on the Control of Endemic Diseases Ministry of Health, Equatorial Guinea
2008-2015	Armauer Hansen Research Institute AHRI-ALERT Hospital, Addis-Abeba, Ethiopia
2009-today	School of Public Health University of Michigan, Ann Arbor, United States of America
2006-2008	School of Public Health Harvard University, Boston, United States of America

#### **Invited talks in scientific meetings and seminars**

April 2023	JRC-UNICEF: How child wasting has been measured so far Data for Nutrition Webinar Series
March 2021	Minimum dietary diversity and food security in the Guera Region, Chad XII Congreso de Sociedad Española de Medicina Tropical Salud Internacional
Dec 2020	Invited talks in MDDW webinar
Feb 2020	Calculating energy and nutrient consumption statistics from household national surveys: pitfalls and opportunities Scientific Seminar, Economics of Agriculture Unit, JRC Seville
Jan 2020	Evaluating market incentive policies in Kenya with a food security and nutrition perspective: a macro-microsimulation approach. Scientific Seminar, Economics of Agriculture Unit, JRC Seville
Dec 2018	Measuring the diet of women's of reproductive age. Breaking the malnutrition life-cycle.

	IAAS, WHO & UNICEF International Symposium on Understanding the Double Burden of Malnutrition for Effective Interventions, Vienna, Austria.
Nov 2018	On women's diets: challenges and opportunities. Measuring dietary outcomes with the MDDW indicator. FAO & IFPRI Accelerating the End of Hunger and Malnutrition Global Event. Bangkok, Thailand
May 2018	Minimum Dietary Diversity for Women data collection under the EC JRC projects in low resource countries - challenges and lesson learned. FAO technical meeting, Rome, Italy.
April 2018	The role of nutrition in food security policy support and research at the Joint Research Center of the European Commission Scientific Seminar, Economics of Agriculture Unit, JRC Seville
Feb 2017	Food Security and Nutrition: Making the link. JRC-UNICEF Scientific Seminar, Food Security Unit, JRC Ispra
January 2016	Minimum Dietary Diversity Women: A New Global Indicator. Bridging gender, food security and nutrition. INFO POINT Seminar at DEVCO, Brussels
Sept 2016	Analyzing MDD-W based in food consumption surveys: the Burkina Faso case study. FAO-EU joint workshop, FAO Rome
October 2015	Evolution of the undernutrition indicators in the Sahel in the last 15 years. Link with nutrition sensitive projects and programs. Scientific debate, EXPO Milan, Milan Italy.
April 2015	Nutrition versus Food: Basic concepts and indicators JRC Scientific Seminar, JRC Ispra
June 2014	Helminthiasis control strategies and malnutrition. Is there any scientific evidence? IX Meeting of the Spanish Society for Tropical Medicine and International Health (SEMTSI) Madrid
March 2014	Priorities for sustainable nutrition research in Africa for evidence-based nutrition policy making. EC-JRC workshop, Ispra, Italy
January 2014	Malnutrition and Neglected Tropical Diseases Hunger, Malnutrition and Disease in Latin America and the Caribbean: the Role of Malnutrition in the Tropical Neglected Diseases Seminar Alicante University, Alicante
June 2011	Factores de riesgo asociados con la infección asintomática por Leishmania Centro Nacional de Microbiología, Instituto de Salud Carlos III
October 2010	Child malnutrition and tropical diseases Controversies on the micronutrient supplementation programs Child Nutrition and Growth. Ibero-American Meeting. Andalucía International University, Seville
December 2008	Training and Research in Nutrition: Essential Tools in the Cooperation to Development Programs Nutrition and Cooperation to Development Conference Valencia University

#### Scientific and technical meetings organization

March 2019	Co-organizer of the FAO-EU technical meeting on Minimum Dietary Diversity for Women: Roadmap on knowledge sharing and capacity development Rome, Italy.
Nov 2018	Co-organizer of the FAO-EU technical meeting on "Minimum Dietary Diversity for Women: methodological update and next steps" held  as a pre-event meeting of the FAO-IFPRI Global event: "Accelerating the

	End of Hunger and Malnutrition". Bangkok, Thailand.
June 2018	Organizer and moderator of the Lab debate "Towards optimal nutrition for all women and adolescent girls" held at the European Development Days international event. Brussels, Belgium.
Nov 2017	Member of the Organizing Committee of the International Conference on "Quantitative Methods for Integrated Food and Nutrition Security Measurements - Lessons to be learned!". Brussels, Belgium.
Nov 2014	Member of the International Scientific Committee of III World Congress of Public Health Nutrition Las Palmas de Gran Canaria, Spain.
June 2014	Member of the Scientific Committee of the IX Meeting of the Spanish Society for Tropical Medicine and International Health (SEMTSI) Madrid, Spain.
March 2008	Member of the Organizing Committee of the VI SEMTSI Congress. Segovia, Spain.

#### Publications (See Attachment)

### EXPERIENCE IN POST-GRADUATE TRAINING

#### Teaching in Post-graduate Training Courses

2017	Lecturer at the Rethinking Food Security: People, Agriculture and Politics Study Program School for International Training, Torino, Italy
2013-2014	Academic director and lecturer of the training course Children Malnutrition in the Tropical Context (10 editions) Spanish School of Public Health, Madrid, Spain
2012-2013	Lecturer at the Tropical Medicine for International Aid's Health Professionals training course (2 editions) Spanish School of Public Health, Madrid, Spain
2005-2012	Academic director and lecturer of the module on nutrition and global health of the International Diploma on Tropical Paediatrics, Spanish School of Public Health (8 editions).
2007-2013	Academic coordinator and lecturer of the course Nutritional Anthropology, short course and module of the Diploma on Food Sciences, Nutrition and Public Health (7 editions)
2012 and 2013	Co-director and lecturer of the course Basic Principles and Methodology of Research I and II Training Program of the Ministry of Health in Equatorial Guinea.

#### Tutorial of Post graduate Research Projects

2022	PhD Thesis: Cost-effective analysis of nutrition sensitive interventions in Angola
2021	PhD Thesis: Comparative study of Minimum Dietary Diversity of Women in America and Africa
2019	PhD Thesis: Exclusive breastfeeding barriers and facilitators from the midwives perspective
2015	PhD Thesis: Nutritional status and dietary practices of school-aged children in Amhara State, Ethiopia: associations with <i>Leishmania</i> infection.
2014	Visiting PhD student from the WHO Collaborating Center for Maternal and Child Health IRCSS Burlo Garofolo, Trieste, research stay of 6 months
2014	Master in Tropical Medicine and International Health Thesis: Nutritional assessment of a children population in Madagascar

	Universidad Autónoma de Madrid
2014	Master in Nutritional Sciences Thesis: Dietary habits and nutritional status of HIV infected children in El Salvador Universidad de Alfonso X El Sabio
2012	Master in Public Health Thesis: Dietary assessment of children aged 4-15 years old in Libo Kem Kem and Fogera, Amhara State, Ethiopia. ENS-ISCIII.
2011	Master in Public Health Thesis: Nutritional status measured by micronutrients in school aged children of Amhara State, Ethiopia. ENS-ISCIII
2009	Master in Public Health Thesis: Infant feeding practices in Equatorial Guinea: A qualitative approach to Equato-guinean mothers. ENS-ISCIII
2010-2013	Tutorials of Post-graduate students of Field Epidemiology Program
2005-2007	Thesis of the International Diploma on Tropical Paediatrics (7), ENS-ISCIII

## EDUCATION

2013-2014	Master in International Public Health National School of Public Health, Spain
2009	PhD in Sciences- Nutrition and Public Health Dissertation <i>Nutritional status and dietary habits in Equatoguinean children: association with Plasmodium infection.</i> Universidad Autónoma de Madrid Ministry of Health Scholarship
2001	Master in Clinical Nutrition School of Medicine, Universidad Autónoma de Madrid European Social Fund Scholarship
1999-2000	Graduate courses Anthropology Department. University of California, Berkeley, USA.
1998	Bachelor In Sciences Universidad Autónoma de Madrid

## TRAINING COURSES

Feb 2006	Nutrition and Public Health Centre for International Child Health, University College London
May 2005	Nutrition Policy and Program Planning London School of Hygiene and Tropical Medicine. Training grant- ISCIII
July 2004	Nutritional Epidemiology Bloomberg School of Public Health, Johns Hopkins University Fellowship ISCIII-Johns Hopkins University

## LANGUAGE SKILLS

Spanish:	Mother tongue
English:	C2
French:	C1
Italian:	A2
Portuguese	B1

## COMPUTER SKILLS

Proficient In wordprocessor (Winword), presentation (Power Point, Publisher) and spreadsheet (Excel) software.

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Expert in database management with ACCESS, Epi-info, Epi-Dat and FoxPro.

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Competent with statistical analysis with R, SPSS, STATA and SAS.

## AWARDS

First Prize for the Doctoral Thesis in the area of Health Sciences and Development Cooperation. The Conference of Rectors of Public Universities in Madrid - October 2011

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Award for the Best Scientific Publication in the Applied Research modality for Training Research Personal of the Instituto de Salud Carlos III- Febrero 2011



## Attachment: Scientific Publications & Technical Reports

### Books

- 2011 *Custodio E.*  
Nutritional status of children population in Equatorial Guinea: associations with malaria.  
Editorial Entimena, ISBN: 978-84-8198-856-7

### Book chapters

- 2017 *Negre T, Custodio E, Nkunzimana T, Pérez-Hoyos A, Kayitakire F, Gomez y Paloma S, Boulanger P, Dudu H, Ferrari E, Louhichi K, ainar A, Colen L, Ricome A, Tillie P, and Rembold F.*  
*Food security.*  
Chapter 4 in the book *Science for the AU-EU partnership. Building knowledge for sustainable development*. Publications Office of the European Union, Luxembourg, 2017. ISBN 978-92-79-69510-0.
- 2017 *Custodio E and Herrero M.*  
*La malnutrición en crisis humanitarias.*  
Chapter 24 in the book *Asistencia Sanitaria en Crisis Humanitarias*. Pilar Estébanez, Carolina Jiménez and Jorge Alvar coord.  
ISBN: 978-84-9052-059-8
- 2016 *Nkunzimana T, Custodio E, Pérez-Hoyos A and Kayitakire F.*  
*Assessing MDG Achievements Through Under-5 Child Stunting in the East African Community: Some Insights from Urban versus Rural Areas in Burundi and Rwanda Using DHS2010.*  
Chapter 4 in the book *Poverty and Well-Being in East Africa: A Multi-faceted Economic*. Almas Heshmati Editor. ISBN:978-3-319-30981-1.
- 2014 *Custodio E.*  
*Malnutrición infantil y enfermedades olvidadas: una Mirada comunitaria.*  
Chapter 3 in the book *Hambre, miseria y enfermedad en Latinoamérica y el Caribe: el papel de la nutrición en las enfermedades tropicales desatendidas en Nicaragua*. Ed. Universidad de Alicante. ISBN: 978-84-943603-1-2.
- 2011 *Custodio E.*  
*Research methodology on human nutrition and food sciences.*  
Chapter 10 in the book *Nutrition, Health and Functional Foods*. Coral Calvo, Carmen Gómez, Consuelo López and MA Royo coord.  
ISBN: 978-84-362-6162-2
- 2010 *Custodio E.*  
*Nutrition research and training: Essentials Tools in the Development Cooperation Programs*  
Chapter 4 in the book *Nutrition and Development Cooperation*, José M. Soriano Ed. Universitat de València 2010. Páginas 61-71. ISBN: 978-84-370-7545-7

### Articles and scientific reports

- 2024 *Custodio E, Herrador Z, Trigo E, Romay-Barja M, Ramirez F, Aguado I, Iráizoz E, Silva-Gerardo A, Martín-Cañavate R, Marques T, Vargas A, Gomez A, and Molina I.*  
*Nutrition supplementation plus standard of care versus standard of care alone or standard of care plus unconditional cash transfer in the prevention of chronic malnutrition in Southern Angola: study protocol of the MuCCUA study, a cluster randomized controlled trial.*  
BMC Public Health 2024; 24:429.
- 2024 *Mascareñas-García M, Custodio E, Garba Issa M, Bechir M and Kayitakire*

	F. Increased food crop diversification and gathering of wild plants associated with women's dietary diversity in Chad. <i>Matern Child Nutr.</i> 2024; e13697
2024	Custodio E, Ramos MP, Jiménez-Calvo S, Mulangu F, and Depetris-Chauvin N. Food security and nutritional vulnerability in Comoros: the impact of Russia-Ukraine conflict. <i>PLoS ONE</i> 19 (11): e0313388.
2024	Verstraeten R and Custodio E. Acute malnutrition surveillance with anthropometry: what do we need to know? European Commission Science for Policy Brief, 2024, JRC136263.
2023	Martin-Cañavate R, Custodio E, Trigo E, Romay-Barja M, Herrador Z, Aguado I, Ramirez F, Faria LM, Silva-Gerardo A, Lima JC, Iráizoz E, Marques T, Vargas A, Gomez A, Puett C y Molina I. Preventing chronic malnutrition in children under 2 years in rural Angola (MuCCUA trial): protocol for the economic evaluation of a three-arm community cluster randomised controlled trial. <i>BMJ Open</i> 2023; 13: e073349. Doi: 10.1136/bmjopen-2023-073349.
2022	Custodio E, Mwirigi L, Tefera N, Pérez-Hoyos A, Baille B, Nyawo M, Rodríguez-Llanes JM Assessing the use of acute malnutrition indicators for nutrition surveillance. Results from 682 283 child observations in 27 low-and middle-income countries. UNICEF & European Commission Joint Research Centre Science for Policy Report, EUR (30938), Publications Office of the European Union, Luxembourg, 2022. ISBN 978-92-76-45884-5.
2022	Llorente-Pulido S, Custodio E, López-Giménez MR, and Otero-García L. Barriers and facilitators for exclusive breastfeeding within the health system and public policies from in-depth interviews to primary care midwives in Tenerife (Canary Islands, Spain) <i>Int. J. Environ. Res. Public Health</i> 2022, 19, 128.
2022	Ramos MP, Custodio E, Jiménez-Calvo S, Mainar-Causapé A, Boulanger P and Ferrari E <i>Do agri-food market incentives improve food security and nutrition indicators? A microsimulation evaluation for Kenya.</i> <i>Food Sec.</i> 14, 209-227 (2022)
2021	Molledo A, Jiménez S, Álvarez-Sánchez C, Manyán T, Ramos MP and Custodio E* Raw versus cooked food matching: nutrient intake using the 2015/2016 Kenya Integrated Household Budget Survey. <i>Journal of Food Composition and Analysis</i> 102 (2021) 103879
2021	Llorente-Pulido S, Custodio E, López-Giménez MR, Sanz-Barbero B, and Otero-García L. Barriers and facilitators for exclusive breastfeeding in women's biopsychosocial spheres according to primary care midwives in Tenerife (Canary Islands, Spain) <i>Int. J. Environ. Res. Public Health</i> 2021, 18, 3819.
2020	Ramos MP, Custodio E, Jiménez S, Mainar-Causapé A, Boulanger P, and Ferrari E. Assessing market incentive policies in Kenya with a food security and nutrition perspective: a macro-microsimulation approach. Technical Report, European Commission Joint Research Centre ISBN 978-92-76-14654-4
2020	Custodio E.



	What can zero hunger do for global health? Revista Diecisiete: Investigación Interdisciplinar para los Objetivos de Desarrollo Sostenible, nº 3, Octubre 2020.
2020	Martin-Canavate R, Custodio E*, Molla D, Abukar Y, Fasbender D and Kayitakre F Malnutrition and morbidity trends in Somalia between 2007 and 2016: results from 291 cross-sectional surveys. BMJ Open 2020; 10:e033148.
2019	Custodio E*, Herrador Z, Nkunjimana T, Weziak-Bialowolska D, Perez-Hoyos A and Kayitakre F. Children's dietary diversity and related factors in Rwanda and Burundi: a multilevel analysis using 2010 Demographic and Health Surveys. PLoS ONE 14(10):e0223237.
2019	Custodio E, Kayitakre F, Fortin S, Thomas AC, Kamell Y, Nkunjimana T, Ndiaye B and Martin-Prevel Y. Minimum dietary diversity among women of reproductive age in urban Burkina Faso Matern Child Nutr. 2020;16:e12897.
2019	Di Marcantonio F*, Custodio E and Abukar Y. Child Dietary Diversity and associated factors among children in Somali IDP camps. Food and Nutrition Bulletin 2020, vol 41 (1): 61-76.
2018	Custodio E*, Martin-Canavate R, Di Marcantonio F, Molla D, Abukar A and Kayitakre F MUAC-for-age more useful than absolute MUAC for nutritional surveillance in Somalia: results from nineteen cross-sectional surveys (2007-2016) BMC Nutrition (2018) 4:8
2018	Martin-Canavate R, Sonogo M, Sagrado MJ, Escobar G, Rivas E, Ayala S, Castaneda L, Aparicio P and Custodio E* Dietary patterns and nutritional status of HIV-infected children and adolescents in El Salvador: A cross-sectional study. PLoS ONE 13 (5):e0196380
2018	Custodio E, López-Alcalde J, Herrero M, Bouza C, Jimenez c, Storcksdieck genannt Bonsmann S, Mouratidou T, López-Cuadrado T, Benito A and Alvar J. Nutritional supplements for patients being treated for active visceral leishmaniasis (Review). Cochrane Database of Systematic Reviews 2018, Issue 3. Art. No.:CD012261.
2016	Custodio E, Herrero M, Bouza C, López-Alcalde J, Benito A and Alvar J. Nutritional supplements for patients being treated for active visceral leishmaniasis (Protocol). Cochrane Database of Systematic Reviews 2016, Issue 6. Art. No.:CD012261.
2016	Nkunjimana T, Custodio E, Thomas AC, Tefera N, Perez-Hoyos A and Kayitakre F. Global analysis of food and nutrition security situation in food crisis hotspots. JRC Science for Policy Report. ISBN: 978-92-79-57891-5.
2016	Romay-Barja M, Cano J, Ugarte JM, Roche J, Nseng G, Riloha M, Benito A and Custodio E. Malaria household knowledge and behavior in Equatorial Guinea: Lessons to be learned. J Infect Dis Preve Med 2016, 4:2.
2016	Sonogo M, Sagrado MJ, Escobar J, Lazzerini M, Rivas E, Martin-Canavate

	<i>R, Pérez E, Ayala S, Castaneda L, Aparicio P, and Custodio E*. Dyslipidemia, Diet and Physical Exercise in Children on Treatment With Antiretroviral Medication in El Salvador: A Cross-Sectional Study. The Pediatric Infectious Disease Journal, vol 35, number 10. Oct 2016.</i>
2015	<i>Remboldt F, Kerdiles H, Nkuzimana T, Custodio E and Pérez-Hoyos A Agriculture, food and nutrition security situation in Zimbabwe in June 2015. JRC 97117 available at <a href="https://ec.europa.eu/jrc">https://ec.europa.eu/jrc</a></i>
2015	<i>Nkuzimana T, Custodio E, Thomas AC, Tefere N, Pérez-Hoyos A and Kayitakire F. Food and Nutrition Security Situation Analysis in Selected Countries in support to the Pro-Resilience Action Programming for 2015. JRC Science and Policy Report, 2015.EUR 27879, doi:10.2788/669159.</i>
2015	<i>Custodio E, Kayitakire F and Thomas AC. Exploring the new indicator: Minimum Dietary Diversity Women. Results from Burkina Faso. JRC Technical Report 2015, ISBN: 978-92-79-54686-0.</i>
2015	<i>Herrador Z, Sordo L, Gadisa E, Buno A, Gomez-Rioja R, Iturzaeta JM, Fernandez de Armas, L, Benito A, Aseffa A, Moreno J, Cañavate C and Custodio E*. Low dietary diversity and intake of animal source foods among school aged children in Libo Kemkem and Fogera districts, Ethiopia. PLoS One July 2015:e0133435</i>
2014	<i>Herrador Z, Sordo L, Gadisa E, Buno A, Gomez-Rioja R, Iturzaeta JM, Fernandez de Armas, L, Benito A, Aseffa A, Moreno J, Cañavate C and Custodio E*. Micronutrient deficiencies and related factors in school-aged children in Ethiopia: a cross-sectional study in Libo Kemkem and Fogera districts, Amhara Regional State. PLoS One Dec 2014 :e0112858</i>
2014	<i>Herrador Z, Sordo L, Gadisa E, Moreno J, Nieto J, Benito A, Aseffa A, Cañavate C and Custodio E*. Malnutrition and associated factors among school aged children in rural and urban settings in Libokemkem and Fogera, Ethiopia. PLoS One Sep 29:e105880</i>
2014	<i>López-Perea N, Sordo L, Gadisa E, Cruz I, Hallu T, Moreno J, Aseffa A, Cañavate C and Custodio E*. Knowledge, Attitudes and Practices related to Visceral Leishmaniasis in Rural Communities of Amhara State, South Gondar, Northwest Ethiopia. PLoS Negl Trop Dis. 2014 Apr 17;8(4):e2799</i>
2012	<i>Custodio E*, Gadisa E, Sordo L, Cruz I, Moreno J, Nieto J, Chicharro C, Aseffa A, Abebe Z, Tsegaye H and Cañavate C. Factors associated with visceral Leishmania asymptomatic infection: results from a cross-sectional survey in highland northern Ethiopia. PLOS Neglected Tropical Diseases Sep 12, vol 6 (9), e1813.</i>
2012	<i>Sordo L, Gadisa E, Custodio E, Cruz I, Simón F, Abebe Z, Moreno J, Aseffa A, Tsegaye H, Nieto J, Chicharro C and Cañavate C*. Low prevalence of Leishmania infection in post-epidemic areas of Libo Kem Kem, Etiopia. Am J Trop Med Hyg 86(6), 955-958.</i>
2010	<i>Custodio E*, Descalzo MA, Roche J, Molina L, Sánchez I, Lwanga M, Torres AM, Fernández-Zincke E, Bernis C, Villamor E and Baylin A. The economic transition in Equatorial Guinea coincided with a double burden of over and under nutrition Economics and Human Biology 8:80-87</i>
2009	<i>Custodio E*, Descalzo MA, Villamor E, Sánchez I, Lwanga M, Bernis C,</i>

	<i>Benito A and Roche J.</i> Nutritional and socioeconomic factors associated with <i>Plasmodium falciparum</i> infection in children from Equatorial Guinea: results from a nationally representative survey. <i>Malaria Journal</i> 8:225
2008	<i>Custodio E*, Descalzo MA, Roche J, Sánchez I, Molina L, Lwanga M, Bernis C, Villamor E and Baylín A.</i> Nutritional status and its correlates in Equatorial Guinean preschool children: results from a nationally representative survey <i>Food and Nutrition bulletin</i> 29, 1, 29:58
2006	<i>Custodio E</i> Malnutrition in the World: a Challenge for Today a Compromise for the Future <i>Métode</i> 2006, nº50
2003	<i>Custodio E*, Bernis C, Barroso A, Montero P, Varea C.</i> Cardiovascular risk in Spanish women between 45 and 68 years old: the role of ferritin <i>Antropo</i> , 4, 1-15. <a href="http://www.didac.ehu.es/antropo">www.didac.ehu.es/antropo</a>

#### Scientific communications

2023	<i>Llorente-Pulido, S., Custodio-Cerezales, E. y Otero-García L.</i>  Factores que influyen en la lactancia materna exclusiva en la estancia hospitalaria tras el parto en Tenerife (España)  Poster presentado en el I Congreso Internacional Multidisciplinar de Estudiantes de Doctorado celebrado en La Laguna (Tenerife)
2023	<i>M. Veloso-Fraigola, R. Martín-Cañavate, E. Custodio, I. Aguado, F. Ramírez, M.L. Faria, J.C. Lima, E. Iraizoz, M. Romay-Barja, et al.</i> Conocimientos, actitudes y prácticas de WASH y factores asociados en Huila, Angola.  Poster presented at the XLI Reunión Anual de la Sociedad Española de Epidemiología, Oporto, Portugal.  <i>Gac Sanit.</i> 2023;37(S1): S177-S325.
2023	<i>M Veloso-Fraigola, R Martín-Cañavate, I Aguado, F Ramírez-Viapiana3, ML Faria, A Da Silva Gerardo, E Iraizoz, E Trigo, E Custodio, M Romay-Barja.</i> Nutrition knowledge and practices in children under two years of age in Huila, Angola.  Comunicación oral en la European Public Health Conference, Dublin, Irlanda.  <i>European Journal of Public Health</i> , Volume 33 Supplement 2, 2023.
2023	<i>Marta Mascarenas-García, Garba Issa, Mahamat Bechit, Francois Kayitakire, Estefanía Custodio</i> Positive association between a Food Production Diversity Score and the Minimum Dietary Diversity for Women of Reproductive Age (MDD-W) Indicator. <i>Ann Nutr Metab</i> 2023; 79(suppl 1):1119. DOI:10.1159/000530786. Poster presented at the 22nd IUNS-International Congress of Nutrition, Tokyo,

	Japan.
2023	<p><i>Mahamat Bechir, Marta Mascareñas, Estefania Custodio and Francois Kayitakire</i></p> <p>Wild edible plants importance for dietary diversity in women of reproductive age in rural region of Chad</p> <p>Ann Nutr Metab 2023; 79(suppl 1):310. DOI:10.1159/000530786. Oral communication presented at the 22nd IUNS-International Congress of Nutrition, Tokyo, Japan.</p>
2023	<p><i>Estefania Custodio, Louise Mwirigi, Nigussie Tefera, Ana Pérez-Hoyos, Barbara Baille, Mara Nwayo, Jose Rodriguez-Llanes</i></p> <p>Assessing the use of different anthropometric indicators for acute malnutrition surveillance: results from a multi-country study.</p> <p>Ann Nutr Metab 2023; 79(suppl 1):422. DOI:10.1159/000530786. Oral communication presented at the 22nd IUNS-International Congress of Nutrition, Tokyo, Japan.</p>
2022	<p><i>Rocio Martín-Canavate, Maria Romay-Barja, Zaida Herrador, Isabel Aguado, Ferran Ramirez-Viaplana, Maria de Lourdes Faria, Ana Da Silva Gerardo, Sara Herran, Elena Trigo, Estefania Custodio.</i></p> <p>CRESCER project- a cluster randomized controlled trial of the effectiveness of nutrition-sensitive and nutrition-specific interventions to prevent stunting in children under two in southern Angola: study design and baseline characteristics.</p> <p>Poster at the 22nd IUNS-International Congress of Nutrition, Tokyo, Japan.</p> <p>Ann Nutr Metab 2023;79(suppl 1):892 DOI: 10.1159/000530786</p>
2021	<p><i>Faria C, Gerardo A, Lima JC, Trigo E, Ramirez-Viaplana F, Aguado I, Custodio E, Gómez A, Faria ML</i></p> <p>Pesquisa operacional de ações sensíveis a nutrição para a redução da desnutrição crônica em Angola. Ensaio comunitário randomizado por clusters.</p> <p>7ª Conferencia Nacional Ciencia e Tecnologia de Angola, November 2021</p>
2021	<p><i>Ramirez-Viaplana F, Molina I, Aznar M, Aguado I, Custodio E. et al.</i></p> <p>Operational Research of Nutrition Actions Towards Reducing Chronic Undernutrition In Angola. A Community Cluster Randomised Trial.</p> <p>Research for Nutrition International Conference, October 2021</p>
2019	<p><i>Molledo A, Jimenez-Calvo S, Alvarez C, Custodio E, Ramos MP, Manyani T and Cafiero C.</i></p> <p>Processing HCES data for apparent nutrient consumption analyses- The type of food matching matters</p> <p>Eight International Conference on Agricultural Statistics (ICAS VIII): Abstract ID: A5-7-029, November 2019.</p>
2018	<p><i>Custodio E, Thomas AC, Kayitakre F, Fortin S, Kameli Y, and Martin-Prevel Y</i></p> <p>Minimum dietary diversity for women in urban Burkina Faso</p> <p>Rev Esp Nutr Comunitaria 2018; 24(Supl 2):90.</p>
2018	<p><i>Custodio E* and Proietti I</i></p> <p>Appropriate breastfeeding may prevent all forms of malnutrition in Kenya</p> <p>Rev Esp Nutr Comunitaria 2018; 24(Supl 2):89.</p>
2017	<p><i>López-Alcalde J, Custodio E, Jiménez C, López-Cuadrado T, Storcksdieck S, Mouratidou M, Bouza C, Herrero M, Alves F, Benito A and Alvar J</i></p> <p>Nutritional supplementation for patients being treated for active visceral</p>

	leishmaniasis: a Cochrane systematic review <i>Abstracts Book Sixth World Congress on Leishmaniasis</i>
2015	Custodio E, Nkunjimana T, Pérez-Hoyos A, and Kayikatiire F. A comparative study on children dietary diversity in Burundi and Rwanda Poster presented at the 2 <sup>nd</sup> Global Food Security Conference.
2015	Pérez-Hoyos A, Nkunjimana T, Custodio E, and Kayikatiire F. Determinants of chronic malnutrition in West Africa combining socio-economic and environmental factors Poster presented at the 2 <sup>nd</sup> Global Food Security Conference.
2015	Nkunjimana T, Custodio E, Pérez-Hoyos A and Kayikatiire F. Prevalence and predictors of stunting among under-5 children in East African Community (EAC). Some insights from urban versus rural areas. Oral communication presented at the 2 <sup>nd</sup> Global Food Security Conference.
2014	Herrador Z, Sordo L, Gadisa E, Buño A, Benito A, Custodio E. Anaemia and related factors in school-aged children living in Libo Kemkem and Fogera, Amhara Regional State, Ethiopia, May-December 2009. Poster presented at the III World Public Health Nutrition Conference. <i>International Journal of Community Nutrition. Volume 0 (Supplement) November 2014, page 131.</i>
2014	Pérez-Formigó J, Herrador Z, Sordo L, Gadisa E, Custodio E. Dietary habits and associated factors in school-aged children living in Libo Kemkem and Fogera districts, Amhara Regional State, Ethiopia. Poster presented at the III World Public Health Nutrition Conference. <i>International Journal of Community Nutrition. Volume 0 (Supplement) November 2014, page 172.</i>
2014	Custodio E, Ncogo P, Aparicio P, Benito A. Low dairy consumption associated with stunting in Equatorial Guinea. Poster presented at the III World Public Health Nutrition Conference. <i>International Journal of Community Nutrition. Volume 0 (Supplement) November 2014, page 172.</i>
2014	Martin-Cañavate R, Sonogo M, Sagrado MJ, Escobar G, Rivas E, Custodio E. Low consumption of fruits, vegetables and dairy products among HIV-infected children in El Salvador. <i>International Journal of Community Nutrition. Volume 0 (Supplement) November 2014, page 173.</i> Poster presented at the III World Public Health Nutrition Conference.
2014	Martin-Cañavate R, Sonogo M, Sagrado MJ, Escobar G, Rivas E, Custodio E. Dietary patterns associated with socio-economic status in HIV-infected Salvadorian children. <i>International Journal of Community Nutrition. Volume 0 (Supplement) November 2014, page 86.</i> Oral communication presented at the III World Public Health Nutrition Conference.
2014	Sonogo M, Sagrado MJ, Rivas E, Escobar G, Martin-Cañavate R, Custodio E. Dyslipidemia and lifestyle in children in anti-retroviral treatment. <i>International Journal of Community Nutrition. Volume 0 (Supplement) November 2014, page 69.</i> Oral communication presented at the III World Public Health Nutrition Conference. Page 69.
2013	Custodio E, Sordo L, Gadisa E, Moreno J, Cañavate C, Nieto J, Chicharro C, Aseffa A y Cruz I. Association between malnutrition and Leishmania infection: Preliminary results of a prospective study in northern Ethiopia. <i>Abstracts Book Fifth World Congress on Leishmaniasis</i>
2013	Custodio E, Aparicio P, Ncogo P and Benito A. Breastfeeding practices in children under 2 years of age in Equatorial Guinea. ORAL COMUNICACION.



	<i>Abstracts Book VIII Congress of the Spanish Society of Tropical Medicine and International Health</i>
2013	Custodio E; Pérez-Formigó J, Gadisa E, Cruz I, Sordo L, Cañavate C, Nieto J, Chicharro C, Aseffa A, Moreno J. ORAL COMUNICACION Low dietary diversity is associated with child stunting in rural Ethiopia. <i>Annals of Nutrition and Metabolism Supplement</i>
2013	Fernández L, Gadisa E, Sordo L, Moreno J, Cañavate C, Aseffa A, Cruz I, Nieto J, Chicharro C, Buño A, Gómez-Rioja, R, Iturazeta JM and Custodio E. Stunting and wasting associated with micronutrient deficiencies in Northern Ethiopia. <i>Annals of Nutrition and Metabolism Supplement</i>
2011	Escobar J, Rivas E, Sagrado MJ, Sonogo M, Castaneda L, Pérez E, Ayala S, Marón G, Aparicio P, Custodio E. High prevalence of metabolic disorders in HIV-1 children under antiretroviral therapy treatment in El Salvador. <i>Antiviral Therapy 16 (Suppl 2), A56.</i>
2011	Custodio E, Escobar G, Rivas E, Sagrado M, Sonogo M, Pérez E, Ayala S, Aparicio P, Marón G, Castaneda L. ORAL COMUNICACION. High prevalences of hypertriglyceridemia and stunting in HIV infected children living in El Salvador <i>Annals of Nutrition and Metabolism 58 (suppl 3) 2011.</i>
2011	Sagrado MJ, Escobar G, Rivas E, Sonogo M, Pérez E, Ayala S, Marón G, Castaneda L, Aparicio P, Benito A, Custodio E. Baseline study for a lifestyle intervention on HIV children with dyslipidemias in El Salvador. <i>Trop Med &amp; Int Health 2011; 16 Suppl 1, 164.</i>
2011	Custodio E, Gadisa E, Sordo L, Cruz I, Moreno J, Nieto J, Aseffa A, Abebe Z, Tsegaye H y Cañavate C. Factors associated with Leishmania infection in Amhara State, Ethiopia <i>Tropical Medicine and International Health, vol 16, Suppl. 1, October 2011: 199.</i>
2011	Custodio E, Sordo L, Gadisa E, Cruz I, Moreno J, Nieto J, Aseffa A, Abebe Z, Tsegaye H y Cañavate C. Factors associated with undernutrition in Amhara State, Ethiopia <i>Tropical Medicine and International Health, vol 16, Suppl. 1, October 2011: 309.</i>
2010	Custodio E y Tena J. "La teta gasta" or why the Equatoguinean mothers deviate from WHO recommendations on their breastfeeding practices. <i>Public Health Nutrition: 13 (9A) September 2010: 154.</i>
2008	Cañavate C, Custodio E, Gadisa E, Moreno J, Cruz I, Nieto FJ, Chicharro C, Sordo L, Casanova E y Aseffa A. Leishmaniasis visceral y malnutrición en el estado de Amhara, Etiopía. <i>Enf Emerg 2010; 12(1):17-18.</i>
2008	Custodio E, Descalzo MA, Molina L, Bernis C, y Roche J. Infección por <i>Plasmodium</i> y factores asociados en población infantil menor de 5 años en Guinea Ecuatorial". <i>Enf. Emerg 2008; 10 (1):63.</i>

#### Contributions to technical reports and conference proceedings

2021	Custodio E as part of the FAO project <i>Technical Advisory Group Minimum Dietary Diversity for Women: and updated guide for measurement: from collection to action</i> FAO, Rome 2021.
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2020	<i>Custodio E as part of the workshop organizing team. Proceedings of the international workshop on: the Minimum Dietary Diversity for Women Indicator (MDD-W): The status and the opportunities. Bangkok 27<sup>th</sup>-28<sup>th</sup> November 2018. European Union and FAO, 2020.</i>
2020	<i>Custodio E as part of the GRFC Nutrition working team. Global Report on Food Crises 2020 Food security information network. March 2020</i>
2020	<i>Custodio E as part of the Cadre Harmonisé Nutrition Task Force Cadre Harmonisé Technical Manual v 2.0. Identification and analysis of areas at risk and populations affected by food and nutrition insecurity. Regional Centre AGRHYMET, Niamey, Niger</i>
2019	<i>Custodio E as part of the Nutrition working team. Global Report on Food Crises 2019 Food security information network. March 2019</i>
2018	<i>Custodio E as part of the GRFC Nutrition working team. Global Report on Food Crises 2018 Food security information network. March 2018.</i>
2018	<i>Custodio E as part of the IPC Technical Working Groups IPC Technical Manual v 3.0 IPC Global Support Unit, Food and Agricultural Organization, Rome, Italy</i>
2017	<i>Custodio E as part of the Conference Scientific Committee. Quantitative methods for integrated food and nutrition security measurement. International conference Brussels 15<sup>th</sup>-17<sup>th</sup> November 2017. European Commission Joint Research Centre and IFPRI, 2017.</i>
2017	<i>Custodio E as part of the Nutrition Drafting team. Global Report on Food Crises 2017. Food security information network. March 2017.</i>
2017	<i>Custodio E as part of the Cadre Harmonisé Nutrition Task Force Annexe7 to CH manual: Définitions pour la classification de l'état nutritionnel dans le Cadre Harmonisé Regional Centre AGRHYMET, Niamey, Niger</i>
2017	<i>Custodio E as part of the IPC Nutrition Working Group Addendum to IPC Technical Manual Version 2.0: IPC Tools and Procedures for Classification of Acute Malnutrition. IPC Global Support Unit, Food and Agricultural Organization, Rome, Italy</i>

