DIGITAL APENDIX: ADDITIONAL REFERENCES

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Digital Appendix 1: Tables

Table 1. Citations and authors according to document type.

Document type	*TP*	%	*TC*2016	CPP_{2016}	*AU*	*AU*/*TP*
Article	2 380	65	44 498	19	17 696	7.4
Meeting abstract	832	23	273	0.33	4 972	6.0
Letter	160	4.4	389	2.4	430	2.7
Review	112	3.1	2 665	24	626	5.6
Proceedings paper	109	3.0	2 251	21	523	4.8
Editorial material	77	2.1	520	6.8	408	5.3
Note	54	1.5	494	9.1	178	3.3
Biographical-item	5	0.14	0	0	9	1.8
Correction	5	0.14	1	0.20	51	10
Book review	3	0.083	0	0	3	1.0
News item	3	0.083	20	6.7	13	4.3
Book chapter	1	0.028	0	0	1	1.0
Discussion	1	0.028	0	0	1	1.0
Item about an individual	1	0.028	0	0	3	3.0
Retraction	1	0.028	0	0	2	2.0

TP: number of articles; *AU*: number of authors; TC_{2016}: total citations since publication to the end of 2016; CPP_{2016}: citations per paper (TC_{2016}/*TP*).

Table 2. Citations and authors according to document language.

Language	*TP*	%	TC_{2016}	CPP_{2016}	*AU*	*AU*/*TP*
English	2 124	89	43 765	21	16 768	7.9
Spanish	241	10	663	2.8	866	3.6
French	12	0.50	55	4.6	54	4.5
Portuguese	2	0.084	5	2.5	5	2.5
German	1	0.042	10	10	3	3.0

TP: number of articles; *AU*: number of authors; TC_{2016}: total citations since publication to the end of 2016; CPP_{2016}: citations per paper (TC_{2016}/*TP*).

Table 3. Web of Science category.

Web of Science category	*TP*	%	No. Journals
Nutrition and Dietetics	498	21	81
Public, Environmental and Occupational Health	299	13	176
Tropical Medicine	192	8.1	19
Pediatrics	147	6.2	121
Infectious Diseases	132	5.5	84
Food Science and Technology	125	5.3	129
Plant Sciences	102	4.3	211
Parasitology	89	3.7	36
Immunology	87	3.7	150
Pharmacology and Pharmacy	84	3.5	256
Microbiology	78	3.3	124
Entomology	76	3.2	91
Agronomy	71	3.0	83
Multidisciplinary Sciences	65	2.7	64
Environmental Sciences	64	2.7	229
Obstetrics and Gynecology	62	2.6	80
Biotechnology and Applied Microbiology	61	2.6	158
General and Internal Medicine	56	2.4	154
Oncology	55	2.3	217
Applied Chemistry	52	2.2	72
Dentistry, Oral Surgery and Medicine	52	2.2	90

TP: number of articles

Table 4. Journals.

Journals	*TP* (%)	IF_{2016}	Web of Science categ
Archivos Latinoamericanos de Nutricion	160 (6.7)	0.459	Nutrition and Dieteti
American Journal of Clinical Nutrition	99 (4.2)	6.926	Nutrition and Dieteti
American Journal of Tropical Medicine and Hygiene	92 (3.9)	2.549	Public, Environmenta
			Tropical Medicine
Journal of Nutrition	43 (1.8)	4.145	Nutrition and Dieteti
Plos One	36 (1.5)	2.806	Multidisciplinary Sci
Turrialba	26 (1.1)	N/A	Agronomy
European Journal of Clinical Nutrition	20 (0.84)	3.057	Nutrition and Dieteti
Journal of Ethnopharmacology	20 (0.84)	2.981	Plant Sciences
			Chemistry, Medicina
			Integrative and Comp
			Pharmacology and Pl
Ecology of Food and Nutrition	19 (0.8)	0.922	Nutrition and Dieteti
Boletin de la Oficina Sanitaria Panamericana	18 (0.76)	N/A	Public, Environmenta
Food and Nutrition Bulletin	18 (0.76)	1.648	Food Science and Te
			Nutrition and Dieteti
Journal of Pediatric Gastroenterology and Nutrition	18 (0.76)	2.799	Gastroenterology and
			Nutrition and Dieteti
			Pediatrics
Transactions of the Royal Society of Tropical Medicine and Hygiene	18 (0.76)	2.279	Public, Environmenta
			Tropical Medicine
Reproductive Health	17 (0.71)	2.209	Public, Environmenta
Florida Entomologist	16 (0.67)	0.964	Entomology
Journal of Food Science	16 (0.67)	1.815	Food Science and Te
Nutrition Research	16 (0.67)	2.737	Nutrition and Dieteti
American Journal of Physical Anthropology	15 (0.63)	2.552	Anthropology
			Evolutionary Biology
Journal of Infectious Diseases	15 (0.63)	6.273	Immunology

Infectious Diseases

Microbiology

TP: number of articles; IF_{2016}: impact fact in 2016; N/A: not avalable

Table 5. Country

Country	*TP*	*TP R* (%)	*FP R* (%)	*RP R* (%)
USA	1 176	1 (49)	1 (33)	1 (32)
Mexico	280	2 (12)	2 (3.7)	2 (3.9)
UK	167	3 (7.0)	4 (2.3)	4 (2.5)
Brazil	140	4 (5.9)	5 (2.0)	5 (2.0)
Costa Rica	126	5 (5.3)	10 (1.0)	10 (1.1)
Spain	125	6 (5.3)	3 (3.0)	3 (3.3)
Argentina	119	7 (5.0)	14 (0.80)	14 (0.82)
Colombia	104	8 (4.4)	10 (1.0)	10 (1.1)
Germany	97	9 (4.1)	6 (1.6)	6 (1.7)
Canada	86	10 (3.6)	7 (1.4)	7 (1.5)
France	83	11 (3.5)	8 (1.1)	8 (1.2)
El Salvador	80	12 (3.4)	37 (0.042)	37 (0.046)
Chile	72	13 (3.0)	18 (0.46)	17 (0.55)
Honduras	70	14 (2.9)	21 (0.25)	20 (0.27)
Peru	68	15 (2.9)	32 (0.084)	30 (0.092)
India	67	16 (2.8)	32 (0.084)	30 (0.092)
Italy	64	17 (2.7)	13 (0.84)	13 (0.87)
Netherlands	63	18 (2.6)	16 (0.67)	15 (0.73)
Switzerland	61	19 (2.6)	12 (0.92)	12 (0.92)
Panama	56	20 (2.4)	25 (0.21)	23 (0.23)

TP: number of articles; *FP*: number of first author articles; *TP*: number of corresponding author articles; *R*: rank

Table 6. Institutions in Guatemala.

Institute	*TP*	*TP R* (%)	*SP R* (%)	*CP R* (%)	*FP R* (%)	*RP R* (%)
Instituto de Nutrición de Centro América y Panamá (INCAP)	602	1 (25)	1 (53)	2 (17)	1 (16)	1 (16)
Universidad de San Carlos	359	2 (15)	3 (5.5)	1 (18)	2 (3.5)	3 (3.1)
Universidad del Valle, Guatemala	332	3 (14)	2 (7.3)	3 (16)	3 (3.4)	2 (3.4)
Center Studies Sensory Impairment Aging & Metabolism	143	4 (6.0)	5 (3.2)	4 (6.9)	4 (2.7)	4 (2.8)
Ministerio de Salud Pública y Asistencia Social	87	5 (3.7)	12 (0.71)	5 (4.6)	14 (0.21)	15 (0.18)
Hospital General San Juan de Dios	53	6 (2.2)	6 (1.8)	7 (2.4)	6 (0.63)	6 (0.60)
Universidad Francisco Marroquín	52	7 (2.2)	13 (0.53)	6 (2.7)	8 (0.46)	7 (0.50)
Hospital Roosevelt	40	8 (1.7)	7 (1.4)	8 (1.8)	7 (0.5)	7 (0.50)
Central American Research Institute for Industry	36	9 (1.5)	4 (5.3)	32 (0.33)	5 (1.3)	5 (1.4)
Centers Disease Control & Prevention, Salvador Office	22	10 (0.92)	N/A	9 (1.2)	19 (0.13)	18 (0.14)
Unidad Nacional de Oncología y Pediatría	17	11 (0.71)	N/A	10 (0.93)	45 (0.042)	N/A
Hospital Herrera Llerandi	14	12 (0.59)	N/A	11 (0.77)	N/A	N/A
Hospital Ojos y Oídos Dr. Rodolfo Robles V.	13	13 (0.55)	8 (1.2)	32 (0.33)	10 (0.29)	10 (0.32)
Universidad Rafael Landívar	13	13 (0.55)	N/A	12 (0.71)	45 (0.042)	43 (0.046)
Instituto de Etnobiología	12	15 (0.50)	N/A	13 (0.66)	N/A	N/A
Servicio Nacional de Control de Enfermedades Transmitidas por Vectores Artrópodos	12	15 (0.50)	15 (0.36)	17 (0.55)	19 (0.13)	18 (0.14)

TP: number of articles; *SP*: number of single institute articles; *CP*: number of inter-institutionally collaborative articles; *FP*: number of first author articles; *RP*: number of corresponding author articles; *R*: rank; N/A: not available

Table 7. Authors from Guatemala.

Author	Affiliation	*TP*	Rank (*TP*)	Rank (*FP*)
Solomons, NW	CeSSIAM	208	1 (208)	1 (65)
Bressani, R	Inst Invest	178	2 (178)	2 (55)
Elias, LG	Inst Nutr Cent Amer y Panamá	63	3 (63)	26 (6)
Rolz, C	Univ Valle Guatemala	52	4 (52)	3 (22)
Cáceres, A	Univ San Carlos USAC	45	5 (45)	8 (15)
Torun, B	INCAP	44	6 (44)	6 (16)
Garces, A	Francisco Marroquín Univ	39	7 (39)	48 (4)
Ramírez-Zea, M	Inst Nutr Cent América y Panamá INCAP	37	8 (37)	86 (3)
Habicht, JP	Inst Nutr Cent Amér y Panamá	35	9 (35)	86 (3)
Lechtig, A	Inst Nutr Cent Amér y Panamá	34	10 (34)	6 (16)
Yarbrough, C	Inst Nutr Cent Amér y Panamá	34	10 (34)	86 (3)
Vossenaar, M	CeSSIAM	33	12 (33)	10 (13)
Braham, JE	Inst Nutr Cent Amér y Panamá	32	13 (32)	86 (3)
Mazariegos, M	Inst Nutr Cent Amér y Panamá	32	13 (32)	19 (7)
Delgado, H	Inst Nutr Cent Amér y Panamá	29	15 (29)	48 (4)
Cruz, JR	Inst Nutr Cent Amér y Panamá	28	16 (28)	4 (18)
Barnoya, J	Cardiovasc Unit Guatemala	26	17 (26)	38 (5)
Monroy, C	Univ San Carlos	26	17 (26)	48 (4)
Zea-Flores, G	Ministerio de Salud de Guatemala	25	19 (25)	354 (1)
Bulux, J	Hosp Ojos y Oídos Dr. Rodolfo Robles V.	24	20 (24)	38 (5)
Pineda, O	Inst Nutr Cent Amér y Panamá	24	20 (24)	153 (2)
Lindblade, KA	CDC Reg Off Cent Amer & Panama	23	22 (23)	38 (5)
Molina, MR	Inst Nutr Cent Amér y Panamá	23	22 (23)	9 (14)
Belizan, JM	Inst Nutr Cent Amér y Panamá	21	24 (21)	17 (8)
Dearriola, MC	Cent Amer Inst Res Ind	20	25 (20)	354 (1)

TP: number of articles; *FP*: number of first author articles; *RP*: number of corresponding author articles; *RP*: number of single author articles; *R*: rank.

Table 8. Top 20 articles with over 200 total citations until the year 2016 ($TC_{2016} > 200$).

Rank (TC_{2016})	Rank (C_0)	Rank (C_{2016})	Rank ($TCPY$)	Title	Country
1 (676)	180 (1)	3 (139)	2 (97)	Human papillomavirus genotype attribution in invasive cervical cancer: a retrospective cross-sectional worldwide study	Spain, Netherlands, Portugal, Colon Korea, Peru, Mexico, Brazil, Taiwa Paraguay, Bosnia & Herceg, Ugand Lebanon, Croatia, Turkey, India, Gu Nigeria, Philippines, Bangladesh, T Australia, Japan, Honduras, Algeria Republic, USA, Kuwait, Greece, Ve Poland, Israel
2 (409)	13 (9)	72 (8)	16 (23)	Oral montelukast, inhaled beclomethasone, and placebo for chronic asthma - A randomized, controlled trial	USA, Costa Rica, Guatemala, Peru
3 (402)	1 (60)	1 (200)	1 (134)	Ramucirumab monotherapy for previously treated advanced gastric or gastro-oesophageal junction adenocarcinoma (REGARD): an international, randomised, multicentre, placebo-controlled, phase 3 trial	USA, Czech Republic, South Korea India, Brazil, UK, Canada, Russia, A Guatemala, Poland, Spain
4 (397)	47 (3)	35 (12)	17 (22)	Prevention of diarrhea and pneumonia by zinc supplementation in children in developing countries: Pooled analysis of randomized controlled trials	USA, Pakistan, Jamaica, UK, Indon Bangladesh, Vietnam, Peru, Mexico India
5 (392)	2 (41)	6 (66)	4 (78)	A distinct lineage of influenza A virus from bats	USA, Guatemala
6 (311)	79 (2)	115 (6)	63 (7.2)	Height and weight standards for preschool-children - how relevant are ethnic differences in growth potential	Guatemala
7 (309)	180 (1)	1088 (0)	50 (8.1)	Assessment of zinc and copper nutriture in man	Guatemala
8 (305)	475 (0)	41 (10)	21 (18)	Therapeutic effects of oral zinc in acute and persistent diarrhea in children in developing countries: pooled analysis of randomized controlled trials	USA, Pakistan, UK, Jamaica, Indon Bangladesh, Vietnam, Peru, Mexico India
9 (260)	17 (7)	2 (146)	3 (87)	Secukinumab in Plaque Psoriasis - Results of Two Phase 3 Trials	Canada, USA, Germany, UK, Spain Australia, Iceland, Guatemala, Taiw
10 (256)	475 (0)	648 (1)	65 (7.1)	Studies on the bioavailability of zinc in humans - effects of heme and nonheme iron on the absorption of zinc	USA, Guatemala
11 (255)	30 (4)	648 (1)	59 (7.5)	Reduction of blood-pressure with calcium supplementation in young-adults	USA, Guatemala
12 (254)	475 (0)	150 (5)	69 (6.9)	The effect of a supportive companion on perinatal problems, length of labor, and mother-infant interaction	USA, Guatemala
13 (239)	475 (0)	5 (67)	6 (48)	Averting biodiversity collapse in tropical forest	Australia, Panama, UK, USA, Mexi China, Canada, Denmark, Surinam,

				protected areas	France, Thailand, Congo, India, Net Costa Rica, Uganda, Italy, Austria, Bolivia, Taiwan, Venezuela, Singap Spain, Kenya, Cote Ivoire, Japan, G Republic, Papua N Guinea, Indones Sierra Leone, Cent Afr Republ, Nep
14 (235)	475 (0)	115 (6)	82 (6.2)	Analysis of two genetic models for the innate components of colony odor in social Hymenoptera	Australia, Guatemala
15 (227)	10 (10)	423 (2)	35 (11)	An outbreak in 1996 of cyclosporiasis associated with imported raspberries	USA, Canada, Guatemala
16 (220)	475 (0)	423 (2)	73 (6.7)	Heterogeneous growth and mental-development of intrauterine growth-retarded infants during the first three years of life	USA, Guatemala
17 (214)	475 (0)	648 (1)	121 (5.1)	Effect of food supplementation during pregnancy on birth-weight	Guatemala
18 (207)	475 (0)	1088 (0)	132 (4.9)	Acute morbidity and physical growth in rural Guatemalan children	Guatemala, USA
19 (202)	17 (7)	13 (36)	15 (25)	Ancestry Informative Marker Sets for Determining Continental Origin and Admixture Proportions in Common Populations in America	USA, Guatemala, Sweden
19 (202)	30 (4)	41 (10)	24 (16)	Miltefosine for New World cutaneous leishmaniasis	Germany, Colombia, Guatemala, U

TC_{2016}: total citations since publication to the end of 2016; C_0: citations in publication year; C_{2016}: citations in 2016;
TCPY: citations per number of years.

Table 9. Top 10 Guatemala independent articles with $TC_{2016} > 100$.

Rank (TC_{2016})	Rank (C_0)	Rank (C_{2016})	Rank (*TCPY*)	Title	Institution
6 (311)	79 (2)	115 (6)	63 (7.2)	Height and weight standards for preschool-children - how relevant are ethnic differences in growth potential	Inst Nutr Cent Amer y Pa
7 (309)	180 (1)	1088 (0)	50 (8.1)	Assessment of zinc and copper nutriture in man	Inst Nutr Cent Amer y Pa
17 (214)	475 (0)	648 (1)	121 (5.1)	Effect of food supplementation during pregnancy on birth-weight	Inst Nutr Cent Amer y Pa
27 (166)	475 (0)	276 (3)	107 (5.4)	Competitive interaction of iron and zinc in the diet - consequences for human-nutrition	Inst Nutr Cent Amer y Pa Sensory Impair Aging &
29 (164)	475 (0)	115 (6)	156 (4.4)	The relationship between calcium intake and edema-gestosis, proteinuria-gestosis, and hypertension-gestosis - an hypothesis	Inst Nutr Cent Amer y Pa
33 (153)	475 (0)	423 (2)	113 (5.3)	Hematological effect of supplementing anemic children with vitamin-a alone and in combination with iron	Inst Nutr Cent Amer y Pa
34 (148)	475 (0)	276 (3)	223 (3.5)	Vot discrimination by 4 to 6 1/2 month-old infants from spanish environments	Inst Nutr Cent Amer y Pa
57 (121)	475 (0)	648 (1)	267 (3.2)	Possible effects of seed coat polyphenolics on the nutritional quality of bean protein	Inst Nutr Cent Amer y Pa
58 (118)	475 (0)	648 (1)	209 (3.7)	Open, prospective-study of the clinical efficacy of ciprofloxacin	Roosevelt Hosp; San Juan
68 (102)	475 (0)	115 (6)	144 (4.6)	Antigonorrhoeal activity of plants used in Guatemala for the treatment of sexually-transmitted diseases	Univ San Carlos; Farmay

TC_{2016}: total citations since publication to the end of 2016; C_0: citations in publication year; C_{2016}: citations in 2016; *TCPY*: citations per number of years.

Digital Appendix 2. Additional Figures

Figure 5. Percentage of publications and number of journals in each Web of Science category.

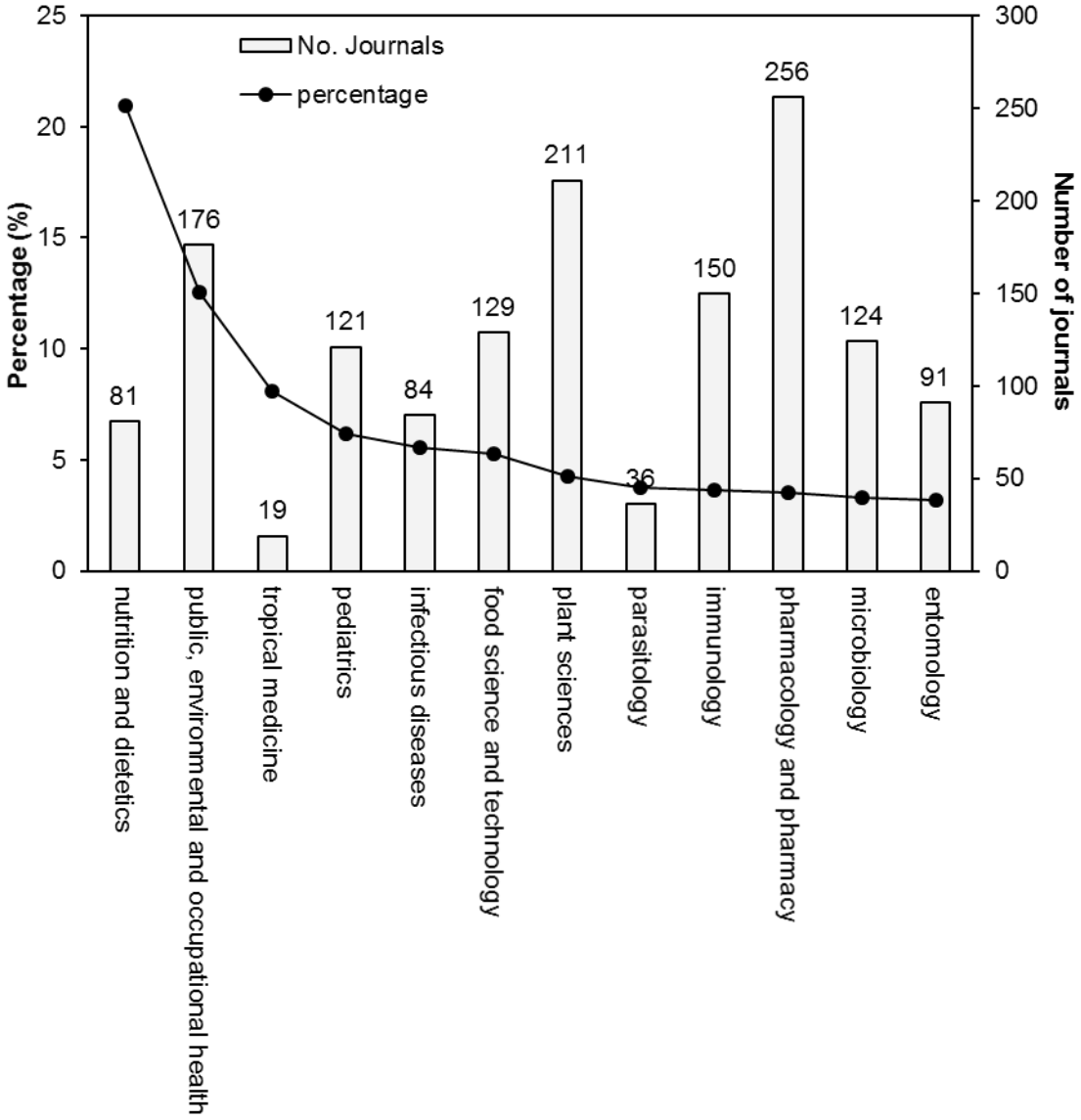

Figure 6. Historical collaboration pattern for the top six collaborative countries with Guatemala (*TP* > 120).

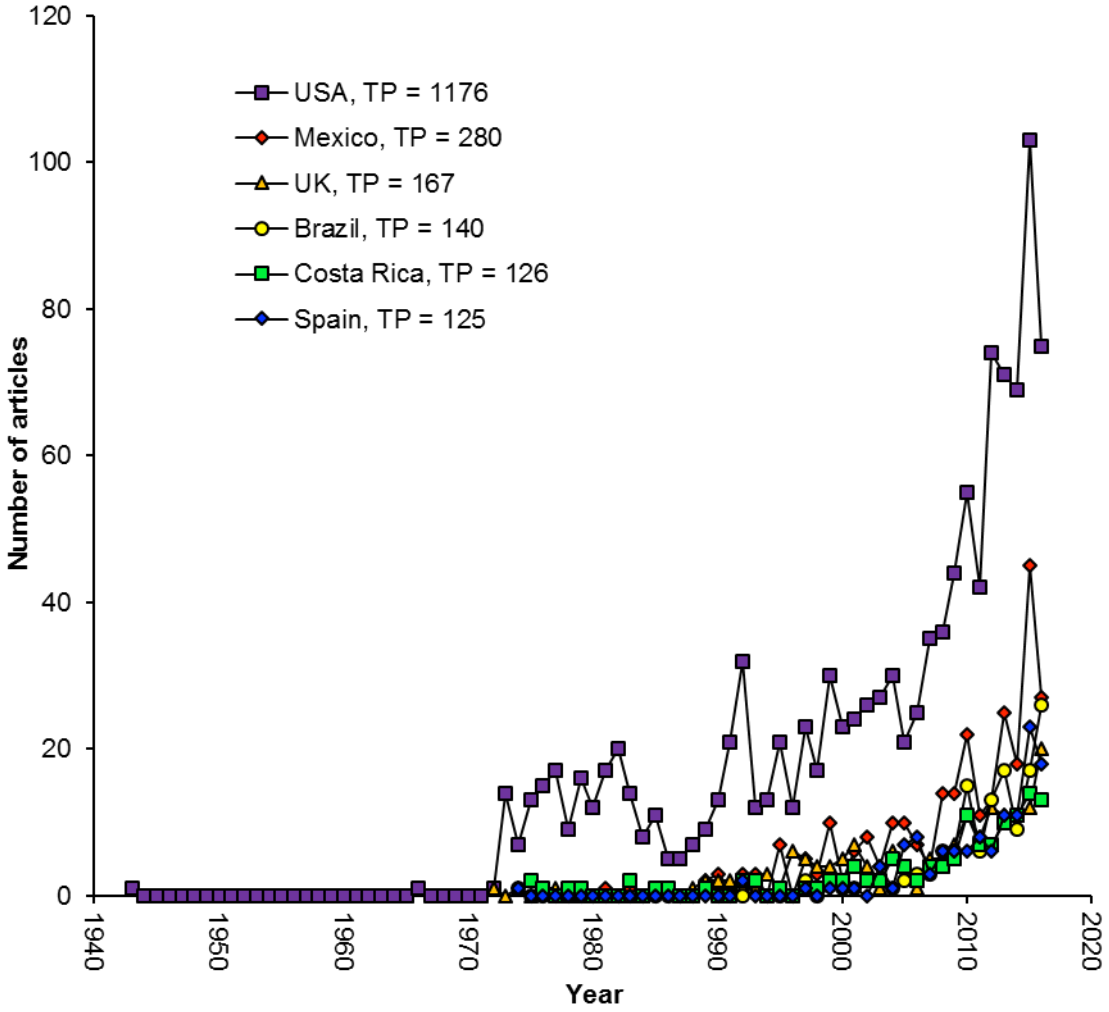

Figure 7. Historical collaboration pattern for Guatemala, by geographically closest countries.

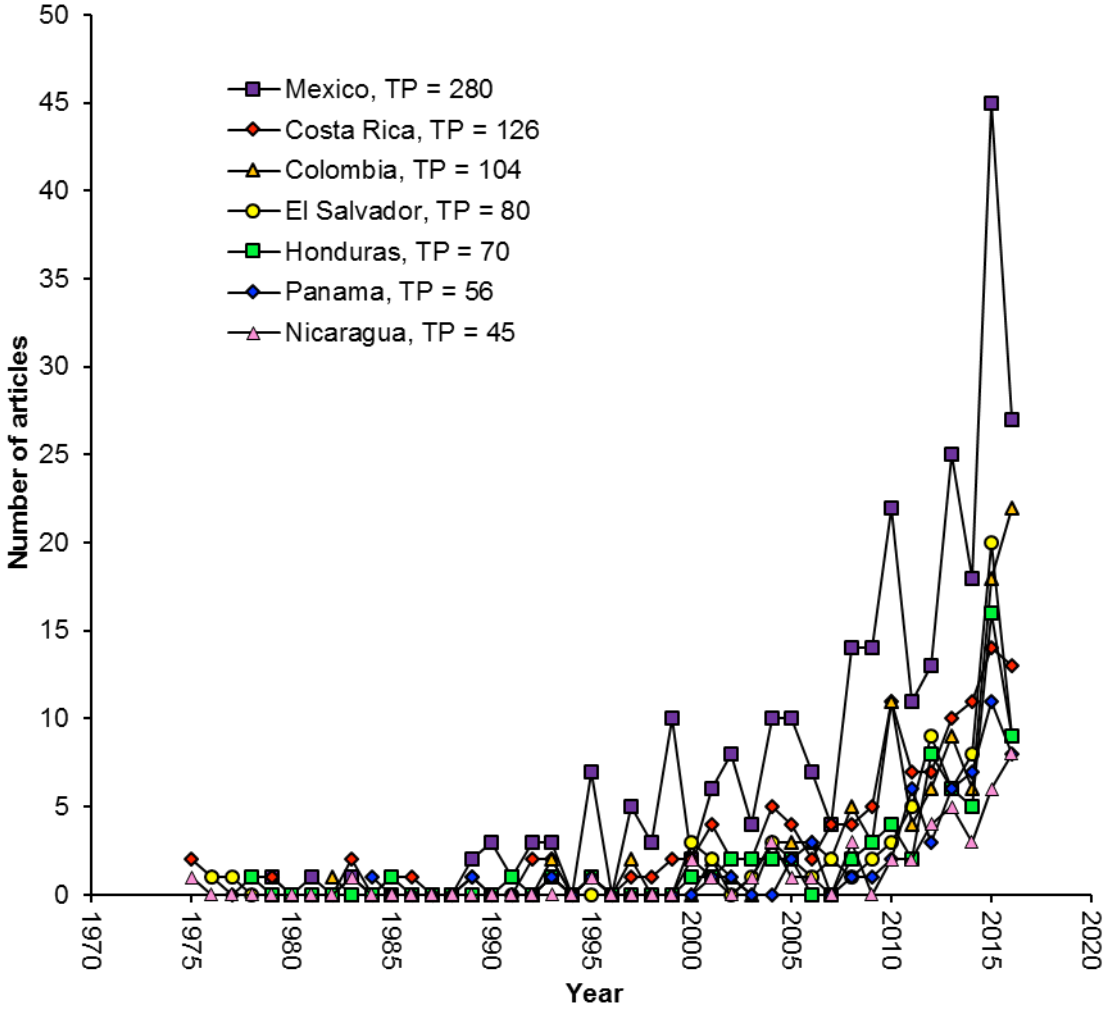

Figure 8. Historical citation patterns for top cited articles, by publication year ($C_0 > 10$).

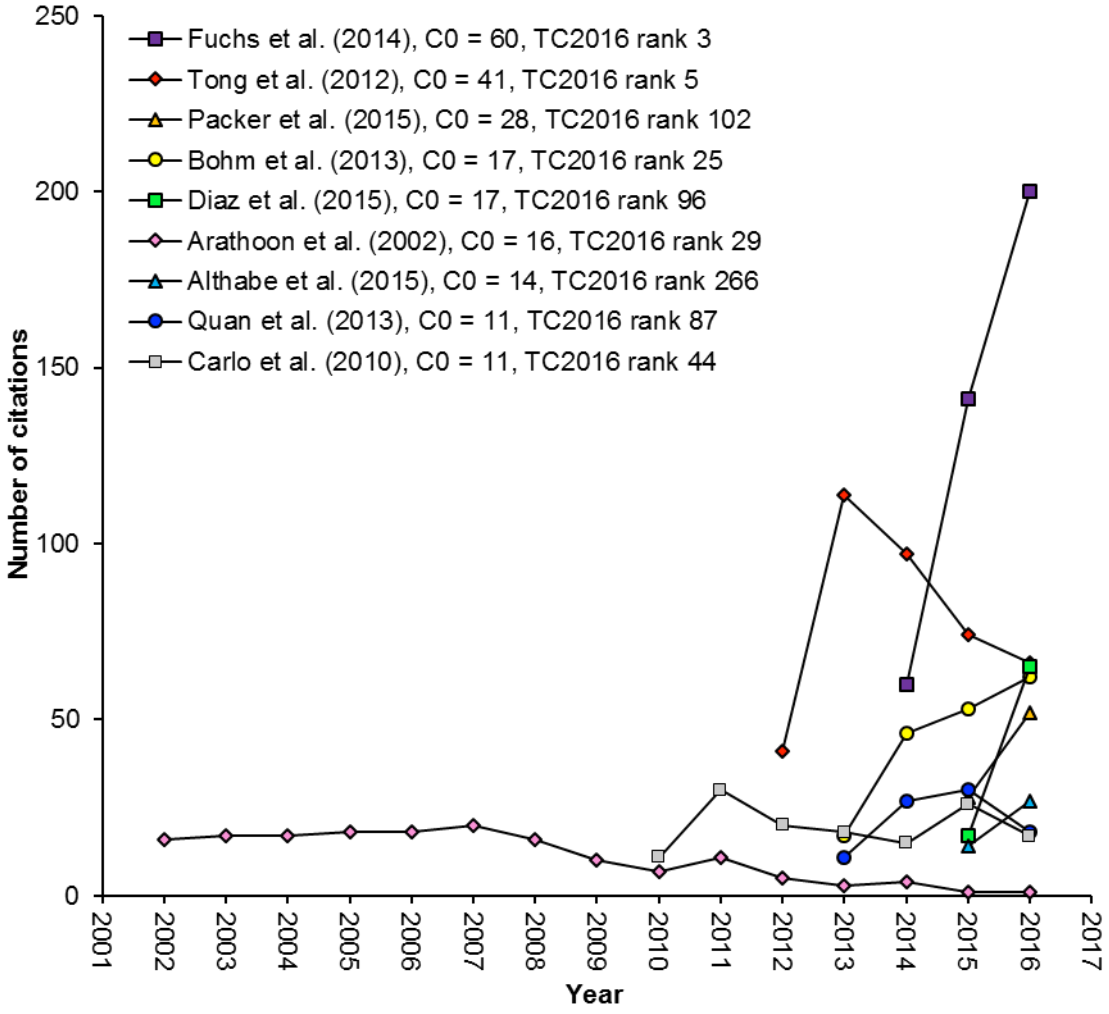

Figure 9. Article lifespan for top cited articles, by publication year ($C_0 > 10$).

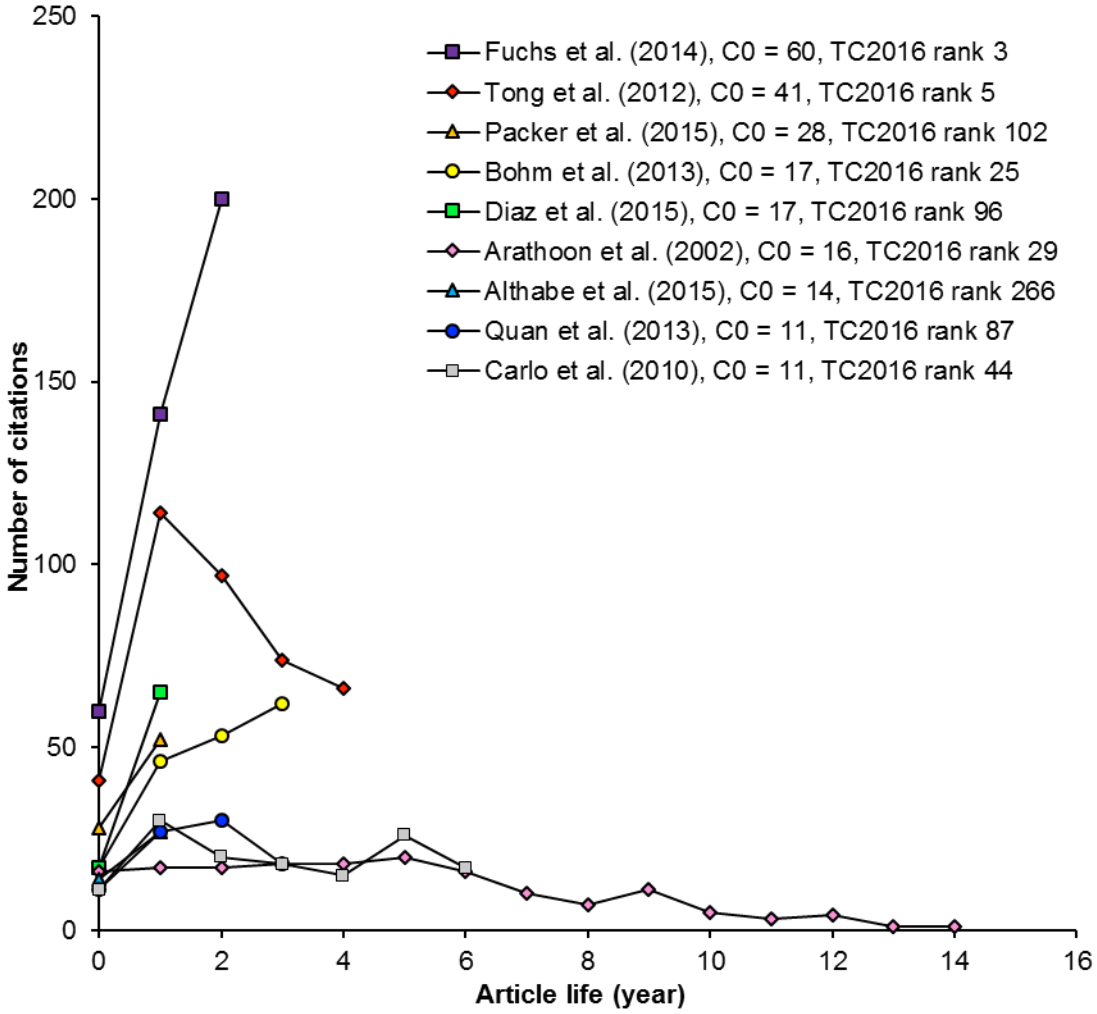

Figure 10. Historical citation patterns for top cited articles in 2016 (recent year) only ($C_{2016} > 50$).

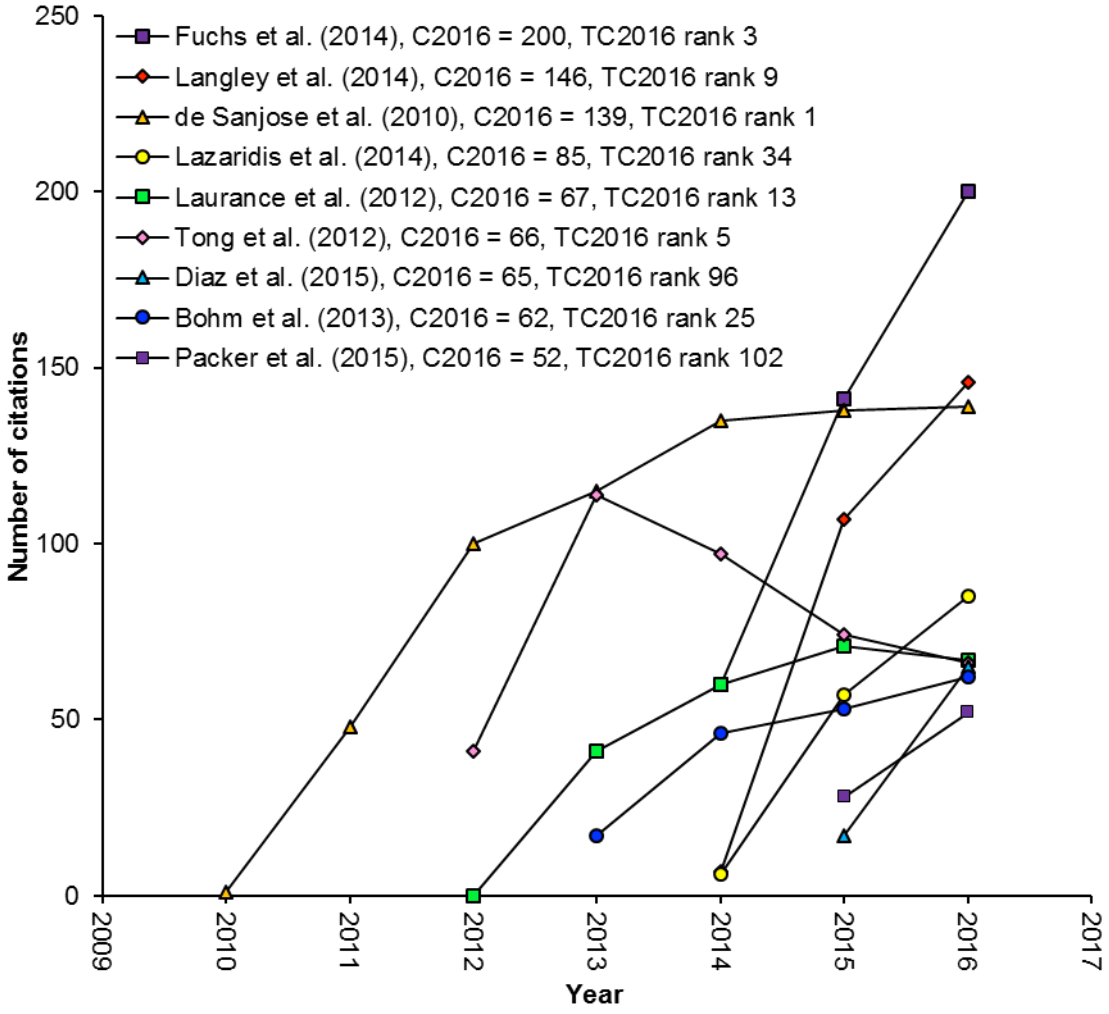

Figure 11. Historical citation patterns for top cited articles by total citations per year (*TCPY* ≥ 40).

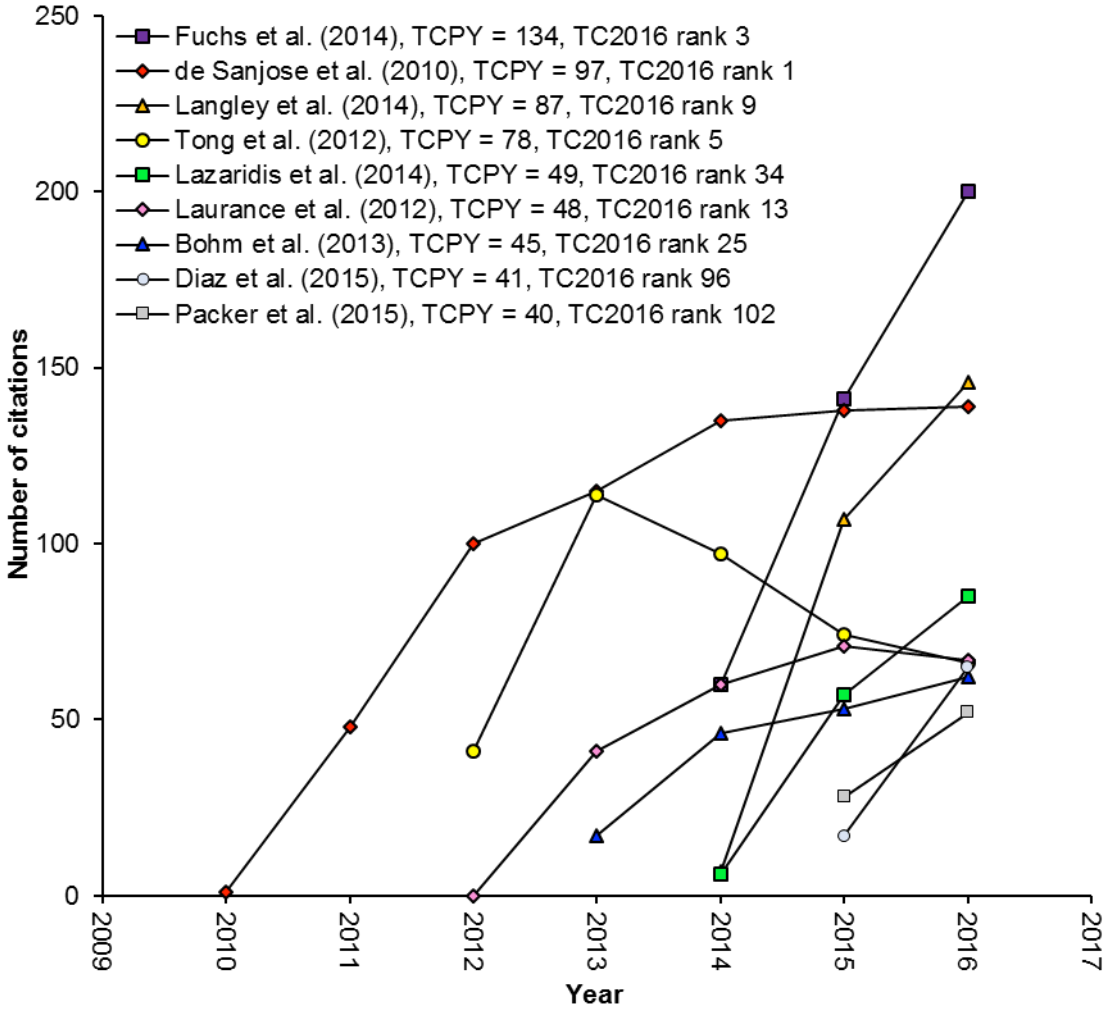

Figure 12. Historical citation patterns for four articles ranked on both the top ten TC_{2016} and C_{2016}.

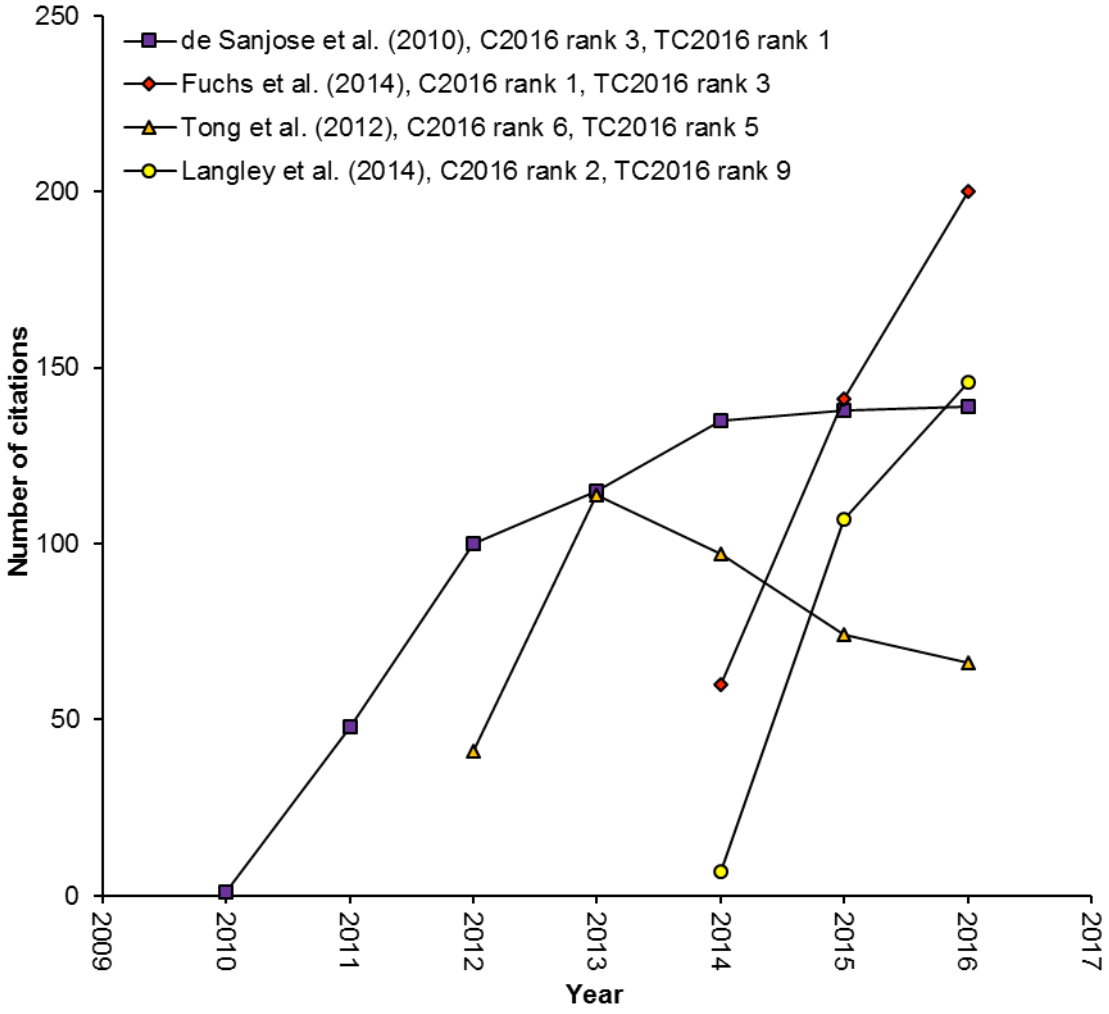

Figure 13. Publication trends for the top six institutions (*TP* > 50).

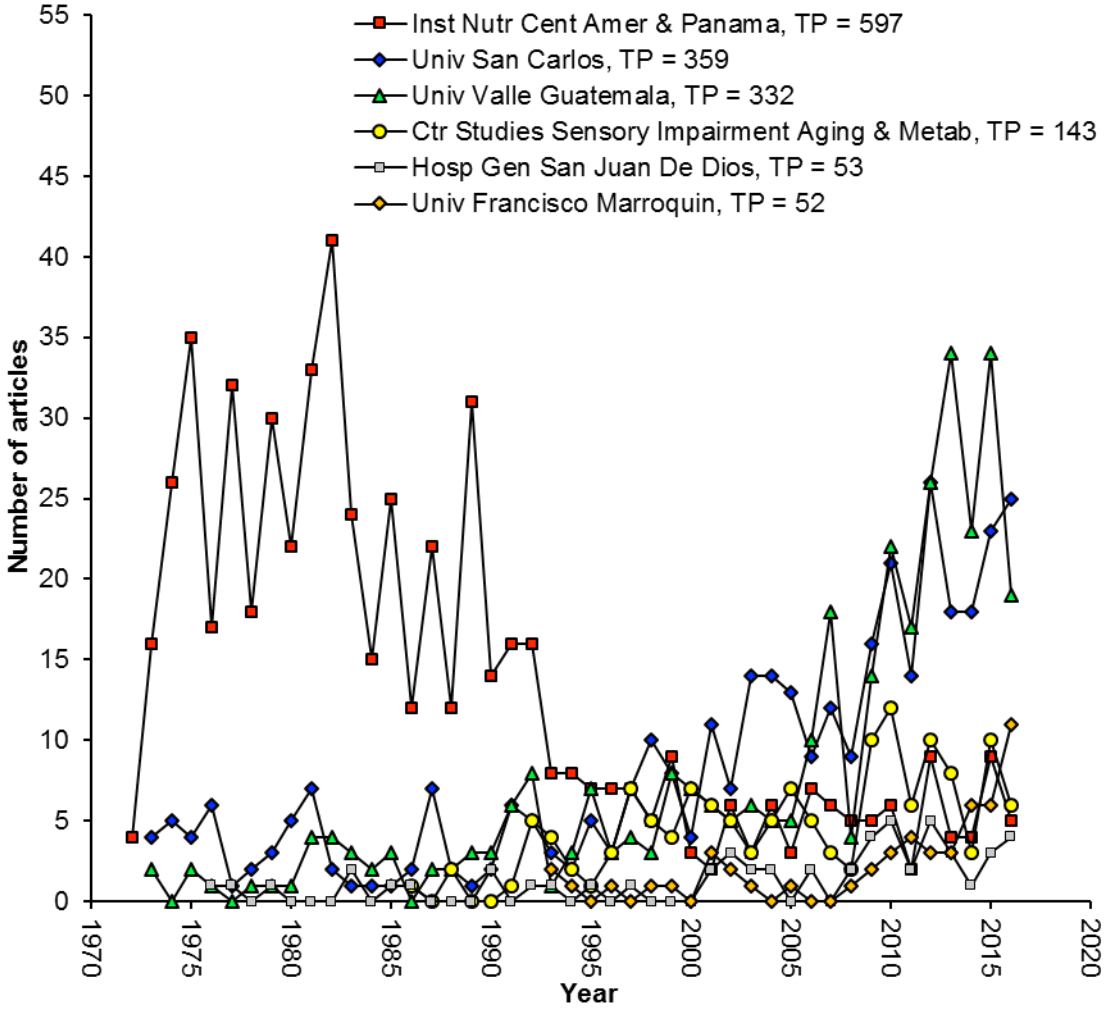

Figure 14. Historical number of article patterns for Guatemala, by the top five Web of Science category.