Wilson R Cunha

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3330343/publications.pdf

Version: 2024-02-01

122 papers	3,489 citations	126708 33 h-index	182168 51 g-index
124 all docs	124 docs citations	124 times ranked	4717 citing authors

#	Article	IF	Citations
1	Antimicrobial Activity of Rosmarinus officinalis against Oral Pathogens: Relevance of Carnosic Acid and Carnosol. Chemistry and Biodiversity, 2010, 7, 1835-1840.	1.0	160
2	In vitro antileishmanial, antiplasmodial and cytotoxic activities of phenolics and triterpenoids from Baccharis dracunculifolia D. C. (Asteraceae). FÃ¬toterapÃ¬Ã¢, 2009, 80, 478-482.	1.1	104
3	Antiprotozoal, Schistosomicidal, and Antimicrobial Activities of the Essential Oil from the Leaves of Baccharis dracunculifolia. Chemistry and Biodiversity, 2010, 7, 993-1001.	1.0	103
4	Antimutagenicity of ursolic acid and oleanolic acid against doxorubicin-induced clastogenesis in Balb/c mice. Life Sciences, 2006, 79, 1268-1273.	2.0	92
5	Antimutagenicity of rosmarinic acid in Swiss mice evaluated by the micronucleus assay. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 657, 150-154.	0.9	92
6	Analgesic and anti-inflammatory activity of a crude root extract of Pfaffia glomerata (Spreng) Pedersen. Journal of Ethnopharmacology, 2005, 96, 87-91.	2.0	90
7	Antimicrobial activity of terpenoids from Copaifera langsdorffii Desf. against cariogenic bacteria. Phytotherapy Research, 2011, 25, 215-220.	2.8	89
8	In vivo Analgesic and Anti-Inflammatory Activities of Ursolic Acid and Oleanoic Acid from Miconia albicans (Melastomataceae). Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2006, 61, 477-482.	0.6	87
9	Pimarane-type Diterpenes: Antimicrobial Activity against Oral Pathogens. Molecules, 2009, 14, 191-199.	1.7	82
10	Halogenated Indole Alkaloids from Marine Invertebrates. Marine Drugs, 2010, 8, 1526-1549.	2.2	81
11	Antimicrobial activity of apitoxin, melittin and phospholipase A2 of honey bee (Apis mellifera) venom against oral pathogens. Anais Da Academia Brasileira De Ciencias, 2015, 87, 147-155.	0.3	71
12	Antibacterial Activity of Triterpene Acids and Semi-Synthetic Derivatives against Oral Pathogens. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2007, 62, 668-672.	0.6	67
13	Ursolic Acid and Oleanolic Acid Suppress Preneoplastic Lesions Induced by 1,2-Dimethylhydrazine in Rat Colon. Toxicologic Pathology, 2008, 36, 576-580.	0.9	67
14	Schistosomicidal Activity of the Essential Oil of Ageratum conyzoides L. (Asteraceae) against Adult Schistosoma mansoni Worms. Molecules, 2011, 16, 762-773.	1.7	64
15	In vitro and in vivo antileishmanial activities of a Brazilian green propolis extract. Parasitology Research, 2008, 103, 487-492.	0.6	62
16	Evaluation of piper cubeba extract, (-)-cubebin and its semi-synthetic derivatives against oral pathogens. Phytotherapy Research, 2007, 21, 420-422.	2.8	61
17	In vitro antileishmanial and antimalarial activities of tetrahydrofuran lignans isolated from Nectandra megapotamica (Lauraceae). Phytotherapy Research, 2008, 22, 1307-1310.	2.8	60
18	In vivoanalgesic and anti-inflammatory activities ofRosmarinus officinalisaqueous extracts, rosmarinic acid and its acetyl ester derivative. Pharmaceutical Biology, 2013, 51, 1087-1090.	1.3	56

#	Article	IF	Citations
19	Antibacterial Activity of the Essential Oil from Rosmarinus offi cinalis and its Major Components against Oral Pathogens. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2010, 65, 588-593.	0.6	55
20	Antimicrobial Activity of the Extract and Isolated Compounds from Baccharis dracunculifolia D. C. (Asteraceae). Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2008, 63, 40-46.	0.6	54
21	Chemical Composition and in vitro Schistosomicidal Activity of the Essential Oil of Plectranthus neochilus Grown in Southeast Brazil. Chemistry and Biodiversity, 2011, 8, 2149-2157.	1.0	51
22	Curcumin-loaded into PLGA nanoparticles. Parasitology Research, 2012, 110, 593-598.	0.6	51
23	Protective effect of rosmarinic acid on V79 cells evaluated by the micronucleus and comet assays. Journal of Applied Toxicology, 2010, 30, 254-259.	1.4	48
24	A study of the trypanocidal and analgesic properties from Lychnophora granmongolense (Duarte) Semir & Leitï¿½o Filho. , 2000, 14, 203-206.		46
25	Schistosomicidal and trypanocidal structureâ€“activity relationships for (Â±)-licarin A and its (â¯)- and (+)-enantiomers. Phytochemistry, 2011, 72, 1424-1430.	1.4	45
26	In vitro efficacy of the essential oil of Piper cubeba L. (Piperaceae) against Schistosoma mansoni. Parasitology Research, 2012, 110, 1747-1754.	0.6	43
27	A study of the trypanocidal activity of triterpene acids isolated fromMiconia species. Phytotherapy Research, 2006, 20, 474-478.	2.8	42
28	Lychnophorinae (asteraceae): a survey of its chemical constituents and biological activities. Quimica Nova, 2010, 33, 2245-2260.	0.3	41
29	Evaluation of the antibacterial activity of the methylene chloride extract ofMiconia ligustroides, isolated triterpene acids, and ursolic acid derivatives. Pharmaceutical Biology, 2010, 48, 166-169.	1.3	41
30	Antileishmanial Activity of the Hydroalcoholic Extract of Miconia langsdorffii, Isolated Compounds, and Semi-Synthetic Derivatives. Molecules, 2011, 16, 1825-1833.	1.7	41
31	Hypoglicemic effect of Leandra lacunosa in normal and alloxan-induced diabetic rats. FÃ¬toterapÃ¬Ã¢, 2008, 79, 356-360.	1.1	38
32	Assessment of the genotoxicity and antigenotoxicity of (+)-usnic acid in V79 cells and Swiss mice by the micronucleus and comet assays. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 753, 101-106.	0.9	37
33	Sesquiterpene lactones, triterpenes and flavones from Lychnophora ericoides and Lychnophora pseudovillosissima. Biochemical Systematics and Ecology, 1998, 26, 671-676.	0.6	36
34	Curcumin Generates Oxidative Stress and Induces Apoptosis in Adult Schistosoma mansoni Worms. PLoS ONE, 2016, 11, e0167135.	1.1	36
35	Antimicrobial Activity of the Essential Oil ofPlectranthus neochilusagainst Cariogenic Bacteria. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-6.	0.5	34
36	In Vitro Antiparasitic Activity and Chemical Composition of the Essential Oil Obtained from the Fruits of Piper cubeba. Planta Medica, 2013, 79, 1653-1655.	0.7	33

#	Article	IF	Citations
37	Chemopreventive effects of rosmarinic acid on rat colon carcinogenesis. European Journal of Cancer Prevention, 2015, 24, 106-112.	0.6	33
38	Evaluation of the trypanocidal and leishmanicidal in vitro activity of the crude hydroalcoholic extract of Pfaffia glomerata (Amarathanceae) roots. Phytomedicine, 2004, 11, 662-665.	2.3	32
39	Evaluation of the analgesic activity of extracts of Miconia rubiginosa (Melastomataceae). Phytomedicine, 2003, 10, 606-609.	2.3	31
40	Chemical Composition, Antibacterial, Schistosomicidal, and Cytotoxic Activities of the Essential Oil of Dysphania ambrosioides (L.) <scp>Mosyakin</scp> & <scp>Clemants</scp> (Chenopodiaceae). Chemistry and Biodiversity, 2017, 14, e1700149.	1.0	31
41	Trypanocidal activity and acute toxicity assessment of triterpene acids. Parasitology Research, 2010, 106, 985-989.	0.6	30
42	Antimicrobial activity of the essential oil of Tetradenia riparia (Hochst.) Codd. (Lamiaceae) against cariogenic bacteria. Brazilian Journal of Microbiology, 2015, 46, 519-525.	0.8	30
43	The effect of the dibenzylbutyrolactolic lignan (â^')-cubebin on doxorubicin mutagenicity and recombinogenicity in wing somatic cells of Drosophila melanogaster. Food and Chemical Toxicology, 2011, 49, 1235-1241.	1.8	29
44	Schistosomicidal evaluation of flavonoids from two species ofStyraxagainstSchistosoma mansoniadult worms. Pharmaceutical Biology, 2012, 50, 925-929.	1.3	29
45	In vivo activity of ursolic and oleanolic acids during the acute phase of Trypanosoma cruzi infection. Experimental Parasitology, 2013, 134, 455-459.	0.5	29
46	In vitro and in vivo anthelmintic activity of (â^')-6,6â€²-dinitrohinokinin against schistosomula and juvenile and adult worms of Schistosoma mansoni. Acta Tropica, 2015, 149, 195-201.	0.9	29
47	Identification of biologically active triterpenes and sterols present in hexane extracts fromMiconia species using high-resolution gas chromatography. Biomedical Chromatography, 2006, 20, 827-830.	0.8	28
48	Impact of light quality on flavonoid production and growth of Hyptis marrubioides seedlings cultivated in vitro. Revista Brasileira De Farmacognosia, 2017, 27, 466-470.	0.6	28
49	Schistosomicidal Evaluation of Zanthoxylum naranjillo and its Isolated Compounds against Schistosoma mansoni Adult Worms. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2009, 64, 793-797.	0.6	27
50	Biotransformation using Mucor rouxii for the production of oleanolic acid derivatives and their antimicrobial activity against oral pathogens. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1493-1498.	1.4	27
51	In vitro schistosomicidal effects of the essential oil of Tagetes erecta. Revista Brasileira De Farmacognosia, 2012, 22, 88-93.	0.6	27
52	Chemical composition, antischistosomal and cytotoxic effects of the essential oil of Lavandula angustifolia grown in Southeastern Brazil. Revista Brasileira De Farmacognosia, 2013, 23, 877-884.	0.6	25
53	Antimicrobial activity of selected essential oils against cariogenic bacteria. Natural Product Research, 2013, 27, 1668-1672.	1.0	25
54	Antibacterial and anti-inflammatory activities of an extract, fractions, and compounds isolated from Gochnatia pulchra aerial parts. Brazilian Journal of Medical and Biological Research, 2015, 48, 822-830.	0.7	25

#	Article	IF	Citations
55	Chemical Analysis and Study of Phenolics, Antioxidant Activity, and Antibacterial Effect of the Wood and Bark ofMaclura tinctoria(L.) D. Don ex Steud.. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-7.	0.5	23
56	Antileishmanial, Antimalarial and Antimicrobial Activities of the Extract and Isolated Compounds from Austroplenckia populnea (Celastraceae). Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2008, 63, 497-502.	0.6	22
57	Evaluation of the in vivo therapeutic properties of (â˜)-cubebin and (â˜)-hinokinin against Trypanosoma cruzi. Experimental Parasitology, 2013, 133, 442-446.	0.5	22
58	Anthelmintic Effects of the Essential Oil of Fennel (Foeniculum vulgare<scp>Mill</scp>.,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.0	22
59	Schistosomicidal Activity of Alkyl-phenols from the Cashew Anacardium occidentale against Schistosoma mansoni Adult Worms. Journal of Agricultural and Food Chemistry, 2016, 64, 8821-8827.	2.4	22
60	Anticariogenic Properties of ent-Pimarane Diterpenes Obtained by Microbial Transformation. Molecules, 2010, 15, 8553-8566.	1.7	21
61	The Lignan (â˜)-Hinokinin Displays Modulatory Effects on Human Monoamine and GABA Transporter Activities. Journal of Natural Products, 2013, 76, 1889-1895.	1.5	21
62	Chemical Composition and Antimicrobial Activity of the Essential Oil of Artemisia absinthium Asteraceae Leaves. Journal of Essential Oil-bearing Plants: JEOP, 2017, 20, 123-131.	0.7	21
63	Cyclooxygenase inhibitory properties ofnor-neolignans fromStyrax pohlii. Natural Product Research, 2012, 26, 2323-2329.	1.0	20
64	Chemical composition andinÂvitroschistosomicidal activity of the essential oil from the flowers ofBidens sulphurea(Asteraceae). Natural Product Research, 2013, 27, 920-924.	1.0	20
65	Quinone and Hydroquinone Metabolites from the Ascidians of the Genus Aplidium. Marine Drugs, 2014, 12, 3608-3633.	2.2	19
66	Antimutagenic Potential ofSolanum lycocarpumagainst Induction of Chromosomal Aberrations in V79 Cells and Micronuclei in Mice by Doxorubicin. Planta Medica, 2011, 77, 1489-1494.	0.7	18
67	Antimycobacterial Activity of Natural and Semi-Synthetic Lignans. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2009, 64, 779-784.	0.6	17
68	In vivo and in silico anti-inflammatory mechanism of action of the semisynthetic (â˜)-cubebin derivatives (â˜)-hinokinin and (â˜)-O-benzylcubebin. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 176-179.	1.0	16
69	Molluscicidal and cercaricidal activities of curcumin on Biomphalaria glabrata and Schistosoma mansoni cercariae. Pest Management Science, 2020, 76, 1228-1234.	1.7	16
70	In Vitro. Inhibition of Tumor Cell Growth byMiconia fallax.. Pharmaceutical Biology, 2008, 46, 292-294.	1.3	15
71	Hepatoprotective effect of Rosmarinus officinalis and rosmarinic acid on acetaminophen-induced liver damage. Emirates Journal of Food and Agriculture, 2014, 26, 878.	1.0	15
72	Antifeedant and allelopathic activities of the hydroalcoholic extract obtained from Neem (Azadirachta indica) leaves. Revista Brasileira De Farmacognosia, 2007, 17, 529-532.	0.6	15

#	Article	IF	Citations
73	Controlling silicate meso-structures using sucupira oil as a new swelling agent. Applied Surface Science, 2012, 258, 5111-5116.	3.1	14
74	Evaluation of antimicrobial activity of extracts of Tibouchina candolleana (melastomataceae), isolated compounds and semi-synthetic derivatives against endodontic bacteria. Brazilian Journal of Microbiology, 2012, 43, 793-799.	0.8	14
75	The Lignan (â€)â€Cubebin Inhibits Vascular Contraction and Induces Relaxation Via Nitric Oxide Activation in Isolated Rat Aorta. Phytotherapy Research, 2013, 27, 1784-1789.	2.8	14
76	Antiparasitic activity of menadione (vitamin K3) against Schistosoma mansoni in BABL/c mice. Acta Tropica, 2017, 167, 163-173.	0.9	13
77	Bioactive Aliphatic Sulfates from Marine Invertebrates. Marine Drugs, 2019, 17, 527.	2.2	13
78	Cadinanolides and other constituents from Vernonia fruticulosa and Vernonanthura discolor. Phytochemistry, 1997, 44, 1535-1536.	1.4	12
79	Enantiomeric resolution of (Â±)-licarin A by high-performance liquid-chromatography using a chiral stationary phase. Journal of Chromatography A, 2011, 1218, 7051-7054.	1.8	12
80	Trypanosoma cruzi: evaluation of (â˜)-cubebin derivatives activity in the messenger RNAs processing. Parasitology Research, 2011, 109, 445-451.	0.6	12
81	Antibacterial activity of (â˜)-cubebin isolated from Piper cubeba and its semisynthetic derivatives against microorganisms that cause endodontic infections. Revista Brasileira De Farmacognosia, 2016, 26, 296-303.	0.6	12
82	Sesquiterpene lactones from Minasia alpestris. Journal of the Brazilian Chemical Society, 2005, 16, 677-680.	0.6	11
83	Development and validation of a highâ€performance liquid chromatography method for quantification of egonol and homoegonol in Styrax species. Biomedical Chromatography, 2012, 26, 869-874.	0.8	11
84	Structurally modified natural sesquiterpene lactones constitute effective and less toxic schistosomicidal compounds. Organic and Biomolecular Chemistry, 2014, 12, 7957-7964.	1.5	11
85	Evaluation of Lignans from Piper cubeba against Schistosoma mansoni Adult Worms: A Combined Experimental and Theoretical Study. Chemistry and Biodiversity, 2019, 16, e1800305.	1.0	11
86	Synthesis of (â˜)-hinokinin by oxidation of (â˜)-cubebin catalyzed by biomimetic metalloporphyrin catalytic systems. Catalysis Communications, 2009, 10, 669-672.	1.6	10
87	Antibacterial activity of 15-deoxygoyazensolide isolated from the stems ofMinasia alpestris(Asteraceae) against oral pathogens. Natural Product Research, 2011, 25, 326-331.	1.0	10
88	Evaluation of mutagenic, recombinogenic and carcinogenic potential of (+)-usnic acid in somatic cells of Drosophila melanogaster. Food and Chemical Toxicology, 2016, 96, 226-233.	1.8	10
89	Toxicogenetic study of Persea americana fruit pulp oil and its effect on genomic instability. Food and Chemical Toxicology, 2017, 101, 114-120.	1.8	10
90	Antimicrobial activity of Aegiphila sellowiana Cham., Lamiaceae, against oral pathogens. Revista Brasileira De Farmacognosia, 2010, 20, 246-249.	0.6	10

#	Article	IF	Citations
91	Sesquiterpene lactones in Blainvillea rhomboidea. Phytochemistry, 1999, 52, 79-85.	1.4	9
92	In vitrocytotoxicity, genotoxicity and antigenotoxicity assessment ofSolanum lycocarpumhydroalcoholic extract. Pharmaceutical Biology, 2016, 54, 2786-2790.	1.3	9
93	Biofilm formed from a tri-ureasil organicâ˜inorganic hybrid gel for use as a cubebin release system. Journal of Sol-Gel Science and Technology, 2018, 88, 192-201.	1.1	9
94	Antiplasmodial evaluation of Anacardium occidentale and alkyl-phenols. Revista Brasileira De Farmacognosia, 2019, 29, 36-39.	0.6	9
95	2D Raman spectroscopy as an alternative technique for distinguishing oleanoic acid and ursolic acid. Journal of Molecular Structure, 2006, 799, 141-145.	1.8	8
96	Furofuran lignans display schistosomicidal and trypanocidal activities. Phytochemistry, 2014, 107, 119-125.	1.4	8
97	In vitro schistosomicidal activity of the lignan (â˜)-6,6â€²-dinitrohinokinin (DNHK) loaded into poly(lactic-co-glycolic acid) nanoparticles against Schistosoma mansoni. Pharmaceutical Biology, 2017, 55, 2270-2276.	1.3	8
98	Screening of plant extracts from the Brazilian Cerrado for theirin vitrotrypanocidal activity. Pharmaceutical Biology, 2009, 47, 744-749.	1.3	7
99	Evaluation of ent-Kaurenoic Acid Derivatives for their Anticariogenic Activity. Natural Product Communications, 2011, 6, 1934578X1100600.	0.2	7
100	In vivo infection by Trypanosoma cruzi: a morphometric study of tissue changes in mice. Parasitology Research, 2013, 112, 431-436.	0.6	7
101	Lipoxygenase inhibitory activity ofCuspidaria pulchraand isolated compounds. Natural Product Research, 2015, 29, 1083-1086.	1.0	7
102	Activity of the Lichen Usnea steineri and its Major Metabolites against Gramâ€“positive, Multidrugâ€“resistant Bacteria. Natural Product Communications, 2016, 11, 1934578X1601100.	0.2	7
103	Hypoglycemic effect of rosmarinic acid-rich infusion (RosCE) from Origanum vulgare in alloxan-induced diabetic rats. Natural Product Research, 2022, 36, 4519-4525.	1.0	7
104	Modulatory Effect of Betulinic Acid on the Genotoxicity Induced by Different Mutagens in V79 Cells. Evidence-based Complementary and Alternative Medicine, 2016, 2016, 1-6.	0.5	6
105	Antischistosomal and Cytotoxic Effects of the Essential Oil of Tetradenia riparia (Lamiaceae). Natural Product Communications, 2015, 10, 1934578X1501000.	0.2	5
106	Effects of (â˜)-6,6â€²-dinitrohinokinin on adult worms of Schistosoma mansoni: a proteomic analyses. Revista Brasileira De Farmacognosia, 2016, 26, 334-341.	0.6	5
107	In vitro trypanocidal activity of the Egyptian plant Schinopsis lorentzii against trypomastigote and amastigote forms of Trypanosoma cruzi. Journal of Applied Pharmaceutical Science, 0, , 055-060.	0.7	5
108	In vitro Activities of Pfaffia glomerata Root Extract, Its Hydrolyzed Fractions and Pfaffic Acid Against Trypanosoma cruzi Trypomastigotes. Chemistry and Biodiversity, 2017, 14, e1600175.	1.0	4

#	Article	IF	Citations
109	Effect of salicylic acid and silver nitrate on rutin production by Hyptis marrubioides cultured in vitro. Ciencia Rural, 2019, 49, .	0.3	4
110	Influence of environmental, geographic, and seasonal variations in the chemical composition of Miconia species from Cerrado. Biochemical Systematics and Ecology, 2020, 91, 104049.	0.6	4
111	Evaluation of lignan-loaded poly(Îµ-caprolactone) nanoparticles: synthesis, characterization, inÂvivo and in silico schistosomicidal activity. Natural Product Research, 2022, 36, 5872-5878.	1.0	4
112	RP-HPLC method for estimation of sesamin in two Zanthoxylum species. Journal of Liquid Chromatography and Related Technologies, 2016, 39, 65-69.	0.5	3
113	Effect of Endophytic Fungal Associations on the Chemical Profile of in vitro Vochysia divergens Seedlings. Journal of the Brazilian Chemical Society, 0, , .	0.6	3
114	In Vivo and in Silico Trypanocidal Activity Evaluation of (â˜)â€Œcubebin Encapsulated in PLGA Microspheres as Potential Treatment in Acute Phase. Chemistry and Biodiversity, 2021, 18, e2100052.	1.0	3
115	Enantiomeric HPLC resolution and absolute stereochemistry assignment of a new poligamain derivative. Journal of Pharmaceutical and Biomedical Analysis, 2013, 75, 118-122.	1.4	2
116	Betulinic acid exerts antigenotoxic and anticarcinogenic activities via inhibition of COXâ€2 and PCNA in rodents. Journal of Biochemical and Molecular Toxicology, 2021, , e22917.	1.4	2
117	In vitro evaluation of the leishmanicidal potential of selected plant-derived extracts against Leishmania (Leishmania) amazonensi. International Journal of Complementary & Alternative Medicine, 2019, 12, 36-41.	0.1	2
118	Isolation, in vitro and in silico Evaluation of Phenylethanoid Glycoside from Arrabidaea brachypoda as Lipoxygenase Inhibitor. Journal of the Brazilian Chemical Society, 0, , .	0.6	2
119	Effects of Light Quality and Chemical Elicitors on the Growth Parameters and Rosmarinic Acid Content of in vitro Cultures of Hyptis pectinata (L.) Poit.. Journal of the Brazilian Chemical Society, 0, , .	0.6	1
120	Antinociceptive activity of Stilpnopappus ferruginea aerial parts. FÃ¬toterapÃ¬Ã¢, 1999, 70, 175-177.	1.1	0
121	IN VITRO TRYPANOCIDAL ACTIVITY AND CHEMICAL CONSTITUENTS OF ASPILIA PLATYPHYLLA (BAKER) BLAKE. Journal of the Chilean Chemical Society, 2007, 52, .	0.5	0
122	In vitro schistosomicidal activity of hydnocarpin D isolated from Vellozia variabillis. Planta Medica, 2016, 81, S1-S381.	0.7	0