Toshiko Tanaka

List of Publications by Year in descending order

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Version: 2024-02-01

134 papers

21,843 citations

23544 58 h-index 131 g-index

140 all docs 140 docs citations

140 times ranked

31162 citing authors

#	Article	IF	CITATIONS
1	Genetic studies of body mass index yield new insights for obesity biology. Nature, 2015, 518, 197-206.	13.7	3,823
2	Defining the role of common variation in the genomic and biological architecture of adult human height. Nature Genetics, 2014, 46, 1173-1186.	9.4	1,818
3	New genetic loci link adipose and insulin biology to body fat distribution. Nature, 2015, 518, 187-196.	13.7	1,328
4	DNA methylation-based measures of biological age: meta-analysis predicting time to death. Aging, 2016, 8, 1844-1865.	1.4	786
5	A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. Nature Genetics, 2012, 44, 659-669.	9.4	762
6	Large-scale association analyses identify new loci influencing glycemic traits and provide insight into the underlying biological pathways. Nature Genetics, 2012, 44, 991-1005.	9.4	746
7	Genetic variation in GIPR influences the glucose and insulin responses to an oral glucose challenge. Nature Genetics, 2010, 42, 142-148.	9.4	591
8	Epigenetic clock analysis of diet, exercise, education, and lifestyle factors. Aging, 2017, 9, 419-446.	1.4	521
9	Genomic analyses identify hundreds of variants associated with age at menarche and support a role for puberty timing in cancer risk. Nature Genetics, 2017, 49, 834-841.	9.4	426
10	Common Variants at 10 Genomic Loci Influence Hemoglobin A1C Levels via Glycemic and Nonglycemic Pathways. Diabetes, 2010, 59, 3229-3239.	0.3	387
11	Measuring biological aging in humans: A quest. Aging Cell, 2020, 19, e13080.	3.0	364
12	The genetics of blood pressure regulation and its target organs from association studies in 342,415 individuals. Nature Genetics, 2016, 48, 1171-1184.	9.4	362
13	Large-scale genomic analyses link reproductive aging to hypothalamic signaling, breast cancer susceptibility and BRCA1-mediated DNA repair. Nature Genetics, 2015, 47, 1294-1303.	9.4	357
14	Genome-Wide Association Study of Plasma Polyunsaturated Fatty Acids in the InCHIANTI Study. PLoS Genetics, 2009, 5, e1000338.	1.5	351
15	Impact of common genetic determinants of Hemoglobin A1c on type 2 diabetes risk and diagnosis in ancestrally diverse populations: A transethnic genome-wide meta-analysis. PLoS Medicine, 2017, 14, e1002383.	3.9	341
16	The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. PLoS Genetics, 2015, 11, e1005378.	1.5	331
17	Genome Analyses of >200,000 Individuals Identify 58 Loci for Chronic Inflammation and Highlight Pathways that Link Inflammation and Complex Disorders. American Journal of Human Genetics, 2018, 103, 691-706.	2.6	326
18	Plasma proteomic signature of age in healthy humans. Aging Cell, 2018, 17, e12799.	3.0	325

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19	Genetic Loci Associated with Plasma Phospholipid n-3 Fatty Acids: A Meta-Analysis of Genome-Wide Association Studies from the CHARGE Consortium. PLoS Genetics, 2011, 7, e1002193.	1.5	324
20	Seventy-five genetic loci influencing the human red blood cell. Nature, 2012, 492, 369-375.	13.7	320
21	Genetic association study of QT interval highlights role for calcium signaling pathways in myocardial repolarization. Nature Genetics, 2014, 46, 826-836.	9.4	281
22	DNA methylation signatures of chronic low-grade inflammation are associated with complex diseases. Genome Biology, 2016, 17, 255.	3.8	251
23	GWAS of Longevity in CHARGE Consortium Confirms APOE and FOXO3 Candidacy. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 110-118.	1.7	250
24	New loci for body fat percentage reveal link between adiposity and cardiometabolic disease risk. Nature Communications, 2016, 7, 10495.	5.8	245
25	Genome-wide meta-analysis identifies six novel loci associated with habitual coffee consumption. Molecular Psychiatry, 2015, 20, 647-656.	4.1	235
26	Genome-wide Association Study of Vitamin B6, Vitamin B12, Folate, and Homocysteine Blood Concentrations. American Journal of Human Genetics, 2009, 84, 477-482.	2.6	225
27	A Higher Adherence to a Mediterranean-Style Diet Is Inversely Associated with the Development of Frailty in Community-Dwelling Elderly Men and Women,. Journal of Nutrition, 2012, 142, 2161-2166.	1.3	215
28	Genome-wide meta-analysis of observational studies shows common genetic variants associated with macronutrient intake. American Journal of Clinical Nutrition, 2013, 97, 1395-1402.	2.2	210
29	CUBN Is a Gene Locus for Albuminuria. Journal of the American Society of Nephrology: JASN, 2011, 22, 555-570.	3.0	208
30	Novel loci affecting iron homeostasis and their effects in individuals at risk for hemochromatosis. Nature Communications, 2014, 5, 4926.	5.8	192
31	Genetic insights into biological mechanisms governing human ovarian ageing. Nature, 2021, 596, 393-397.	13.7	183
32	Genome-wide analyses identify a role for SLC17A4 and AADAT in thyroid hormone regulation. Nature Communications, 2018, 9, 4455.	5.8	181
33	Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. Nature Communications, 2017, 8, 14977.	5.8	169
34	Novel locus including FGF21 is associated with dietary macronutrient intake. Human Molecular Genetics, 2013, 22, 1895-1902.	1.4	167
35	Genome-Wide Association Study of Plasma N6 Polyunsaturated Fatty Acids Within the Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium. Circulation: Cardiovascular Genetics, 2014, 7, 321-331.	5.1	164
36	Common genetic loci influencing plasma homocysteine concentrations and their effect on risk of coronary artery disease. American Journal of Clinical Nutrition, 2013, 98, 668-676.	2.2	161

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37	Genome-wide physical activity interactions in adiposity $\hat{a} \in A$ meta-analysis of 200,452 adults. PLoS Genetics, 2017, 13, e1006528.	1.5	158
38	Genome-wide meta-analysis uncovers novel loci influencing circulating leptin levels. Nature Communications, 2016, 7, 10494.	5. 8	153
39	Blood Leukocyte DNA Methylation Predicts Risk of Future Myocardial Infarction and Coronary Heart Disease. Circulation, 2019, 140, 645-657.	1.6	151
40	Genetic variation at MECOM, TERT, JAK2 and HBS1L-MYB predisposes to myeloproliferative neoplasms. Nature Communications, 2015, 6, 6691.	5.8	145
41	FTO genetic variants, dietary intake and body mass index: insights from 177 330 individuals. Human Molecular Genetics, 2014, 23, 6961-6972.	1.4	143
42	A genome-wide association analysis of serum iron concentrations. Blood, 2010, 115, 94-96.	0.6	142
43	Mediterranean diet and mobility decline in older persons. Experimental Gerontology, 2011, 46, 303-308.	1.2	124
44	Underlying features of epigenetic aging clocks in vivo and in vitro. Aging Cell, 2020, 19, e13229.	3.0	120
45	52 Genetic Loci Influencing MyocardialÂMass. Journal of the American College of Cardiology, 2016, 68, 1435-1448.	1.2	113
46	Multiple Loci Are Associated with White Blood Cell Phenotypes. PLoS Genetics, 2011, 7, e1002113.	1.5	106
47	Skeletal muscle exÂvivo mitochondrial respiration parallels decline inÂvivo oxidative capacity, cardiorespiratory fitness, and muscle strength: The Baltimore Longitudinal Study of Aging. Aging Cell, 2018, 17, e12725.	3.0	101
48	Genome-wide association studies identify 137 genetic loci for DNA methylation biomarkers of aging. Genome Biology, 2021, 22, 194.	3.8	90
49	Sex-dimorphic genetic effects and novel loci for fasting glucose and insulin variability. Nature Communications, 2021, 12, 24.	5. 8	87
50	An Analysis of Two Genome-wide Association Meta-analyses Identifies a New Locus for Broad Depression Phenotype. Biological Psychiatry, 2017, 82, 322-329.	0.7	84
51	Genomewide metaâ€analysis identifies loci associated with <scp>IGF</scp> â€l and <scp>IGFBP</scp> â€3 levels with impact on ageâ€related traits. Aging Cell, 2016, 15, 811-824.	3.0	83
52	Association Between Accelerated Multimorbidity and Ageâ€Related Cognitive Decline in Older Baltimore Longitudinal Study of Aging Participants without Dementia. Journal of the American Geriatrics Society, 2016, 64, 965-972.	1.3	78
53	Plasma proteomic biomarker signature of age predicts health and life span. ELife, 2020, 9, .	2.8	78
54	Genome-wide meta-analysis of muscle weakness identifies 15 susceptibility loci in older men and women. Nature Communications, 2021, 12, 654.	5.8	75

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55	Genome-wide association analysis of total cholesterol and high-density lipoprotein cholesterol levels using the Framingham Heart Study data. BMC Medical Genetics, 2010, 11, 55.	2.1	74
56	A meta-analysis of 120 246 individuals identifies 18 new loci for fibrinogen concentration. Human Molecular Genetics, 2016, 25, 358-370.	1.4	73
57	Identification of a common variant in the TFR2 gene implicated in the physiological regulation of serum iron levels. Human Molecular Genetics, 2011, 20, 1232-1240.	1.4	67
58	Genome-wide Studies of Verbal Declarative Memory in Nondemented Older People: The Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium. Biological Psychiatry, 2015, 77, 749-763.	0.7	67
59	Novel association to the proprotein convertase PCSK7 gene locus revealed by analysing soluble transferrin receptor (sTfR) levels. Human Molecular Genetics, 2011, 20, 1042-1047.	1.4	62
60	An integrative cross-omics analysis of DNA methylation sites of glucose and insulin homeostasis. Nature Communications, 2019, 10, 2581.	5.8	62
61	Proteomics in aging research: A roadmap to clinical, translational research. Aging Cell, 2021, 20, e13325.	3.0	59
62	Effects of a behavioral intervention that emphasizes spices and herbs on adherence to recommended sodium intake: results of the SPICE randomized clinical trial. American Journal of Clinical Nutrition, 2015, 102, 671-679.	2.2	53
63	Gene-Environment Interactions of Circadian-Related Genes for Cardiometabolic Traits. Diabetes Care, 2015, 38, 1456-1466.	4.3	52
64	<scp>GWAS</scp> analysis of handgrip and lower body strength in older adults in the <scp>CHARGE</scp> consortium. Aging Cell, 2016, 15, 792-800.	3.0	51
65	Elevated Plasma Growth and Differentiation Factor 15 Is Associated With Slower Gait Speed and Lower Physical Performance in Healthy Community-Dwelling Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 175-180.	1.7	48
66	Association of dietary folate and vitamin B-12 intake with genome-wide DNA methylation in blood: a large-scale epigenome-wide association analysis in 5841 individuals. American Journal of Clinical Nutrition, 2019, 110, 437-450.	2.2	46
67	Genome-wide meta-analysis of macronutrient intake of 91,114 European ancestry participants from the cohorts for heart and aging research in genomic epidemiology consortium. Molecular Psychiatry, 2019, 24, 1920-1932.	4.1	44
68	Protein signatures of centenarians and their offspring suggest centenarians age slower than other humans. Aging Cell, 2021, 20, e13290.	3.0	42
69	Meta-analysis of genome-wide association studies for circulating phylloquinone concentrations. American Journal of Clinical Nutrition, 2014, 100, 1462-1469.	2.2	39
70	Dietary fatty acids modulate associations between genetic variants and circulating fatty acids in plasma and erythrocyte membranes: Metaâ enalysis of nine studies in the CHARGE consortium. Molecular Nutrition and Food Research, 2015, 59, 1373-1383.	1.5	37
71	Fine-mapping, novel loci identification, and SNP association transferability in a genome-wide association study of QRS duration in African Americans. Human Molecular Genetics, 2016, 25, 4350-4368.	1.4	37
72	Adherence to a Mediterranean Diet Protects from Cognitive Decline in the Invecchiare in Chianti Study of Aging. Nutrients, 2018, 10, 2007.	1.7	37

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73	Change in Epigenome-Wide DNA Methylation Over 9 Years and Subsequent Mortality: Results From the InCHIANTI Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 1029-1035.	1.7	35
74	Genome-wide association study of breakfast skipping links clock regulation with food timing. American Journal of Clinical Nutrition, 2019, 110, 473-484.	2.2	34
75	Association of Methylation Signals With Incident Coronary Heart Disease in an Epigenome-Wide Assessment of Circulating Tumor Necrosis Factor α. JAMA Cardiology, 2018, 3, 463.	3.0	33
76	Sugar-sweetened beverage intake associations with fasting glucose and insulin concentrations are not modified by selected genetic variants in a ChREBP-FGF21 pathway: a meta-analysis. Diabetologia, 2018, 61, 317-330.	2.9	32
77	Plasma proteomic signature of the risk of developing mobility disability: A 9â€year followâ€up. Aging Cell, 2020, 19, e13132.	3.0	32
78	Genome-wide association study of circulating interleukin 6 levels identifies novel loci. Human Molecular Genetics, 2021, 30, 393-409.	1.4	32
79	DNA methylation signatures reveal that distinct combinations of transcription factors specify human immune cell epigenetic identity. Immunity, 2021, 54, 2465-2480.e5.	6.6	31
80	Comparison of HapMap and 1000 Genomes Reference Panels in a Large-Scale Genome-Wide Association Study. PLoS ONE, 2017, 12, e0167742.	1.1	29
81	Extracellular <scp>RNA</scp> profiles with human age. Aging Cell, 2018, 17, e12785.	3.0	27
82	State- and trait-dependent associations of vitamin-D with brain function during aging. Neurobiology of Aging, 2016, 39, 38-45.	1.5	26
83	DNA methylation signature of chronic low-grade inflammation and its role in cardio-respiratory diseases. Nature Communications, 2022, 13, 2408.	5.8	26
84	A brain proteomic signature of incipient Alzheimer's disease in young ⟨i⟩APOE⟨/i⟩ Îμ4 carriers identifies novel drug targets. Science Advances, 2021, 7, eabi8178.	4.7	23
85	Genetic analysis of dietary intake identifies new loci and functional links with metabolic traits. Nature Human Behaviour, 2022, 6, 155-163.	6.2	22
86	SPARCL1 Accelerates Symptom Onset in Alzheimer's Disease and Influences Brain Structure and Function During Aging. Journal of Alzheimer's Disease, 2017, 61, 401-414.	1.2	21
87	Cardiovascular Health Is Associated With Physical Function Among Older Community Dwelling Men and Women. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 1710-1716.	1.7	21
88	Identification of a novel locus on chromosome 2q13, which predisposes to clinical vertebral fractures independently of bone density. Annals of the Rheumatic Diseases, 2018, 77, 378-385.	0.5	21
89	Age-associated difference in circulating ACE2, the gateway for SARS-COV-2, in humans: results from the InCHIANTI study. GeroScience, 2021, 43, 619-627.	2.1	21
90	The complex genetics of gait speed: genome-wide meta-analysis approach. Aging, 2017, 9, 209-246.	1.4	21

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91	Plasma proteomic signatures predict dementia and cognitive impairment. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2020, 6, e12018.	1.8	20
92	Blood Metabolite Signature of Metabolic Syndrome Implicates Alterations in Amino Acid Metabolism: Findings from the Baltimore Longitudinal Study of Aging (BLSA) and the Tsuruoka Metabolomics Cohort Study (TMCS). International Journal of Molecular Sciences, 2020, 21, 1249.	1.8	19
93	Discovery and fine-mapping of loci associated with MUFAs through trans-ethnic meta-analysis in Chinese and European populations. Journal of Lipid Research, 2017, 58, 974-981.	2.0	18
94	A double blind placebo controlled randomized trial of the effect of acute uric acid changes on inflammatory markers in humans: A pilot study. PLoS ONE, 2017, 12, e0181100.	1.1	18
95	Genome-wide association meta-analysis of fish and EPA+DHA consumption in 17 US and European cohorts. PLoS ONE, 2017, 12, e0186456.	1.1	18
96	CCL17 acts as a novel therapeutic target in pathological cardiac hypertrophy and heart failure. Journal of Experimental Medicine, 2022, 219, .	4.2	18
97	Vitamin D receptor and megalin gene polymorphisms are associated with central adiposity status and changes among US adults. Journal of Nutritional Science, 2013, 2, e33.	0.7	17
98	Characterization of the plasma proteomic profile of frailty phenotype. GeroScience, 2021, 43, 1029-1037.	2.1	16
99	Blood Metabolite Signatures of Metabolic Syndrome in Two Cross-Cultural Older Adult Cohorts. International Journal of Molecular Sciences, 2020, 21, 1324.	1.8	15
100	Association of Adherence to the Mediterranean-Style Diet with Lower Frailty Index in Older Adults. Nutrients, 2021, 13, 1129.	1.7	15
101	Blood DNA methylation sites predict death risk in a longitudinal study of 12, 300 individuals. Aging, 2020, 12, 14092-14124.	1.4	15
102	Longitudinal phenotypic aging metrics in the Baltimore Longitudinal Study of Aging. Nature Aging, 2022, 2, 635-643.	5.3	15
103	Sex-Dependent Associations of Serum Uric Acid with Brain Function During Aging. Journal of Alzheimer's Disease, 2017, 60, 699-706.	1.2	14
104	Blood DNA Methylation and Aging: A Cross-Sectional Analysis and Longitudinal Validation in the InCHIANTI Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 2051-2055.	1.7	14
105	The Mediterranean-DASH Intervention for Neurodegenerative Delay (MIND) diet is associated with physical function and grip strength in older men and women. American Journal of Clinical Nutrition, 2022, 115, 625-632.	2.2	14
106	Associations between Common Variants in Iron-Related Genes with Haematological Traits in Populations of African Ancestry. PLoS ONE, 2016, 11, e0157996.	1.1	13
107	Association Between the Multidimensional Prognostic Index and Mortality During 15 Years of Follow-up in the InCHIANTI Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 1678-1685.	1.7	13
108	<i>PRKCZ</i> methylation is associated with sunlight exposure in a North American but not a Mediterranean population. Chronobiology International, 2014, 31, 1034-1040.	0.9	12

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109	Genetic diversity is a predictor of mortality in humans. BMC Genetics, 2014, 15, 159.	2.7	12
110	Potential Interplay between Dietary Saturated Fats and Genetic Variants of the NLRP3 Inflammasome to Modulate Insulin Resistance and Diabetes Risk: Insights from a Metaâ€Analysis of 19Â005 Individuals. Molecular Nutrition and Food Research, 2019, 63, e1900226.	1.5	12
111	Comparing Analytical Methods for the Gut Microbiome and Aging: Gut Microbial Communities and Body Weight in the Osteoporotic Fractures in Men (MrOS) Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1267-1275.	1.7	12
112	Genome-wide association study identifies novel susceptibility loci for KIT D816V positive mastocytosis. American Journal of Human Genetics, 2021, 108, 284-294.	2.6	12
113	Cross-Sectional and Longitudinal Effects of CREB1 Genotypes on Individual Differences in Memory and Executive Function: Findings from the BLSA. Frontiers in Aging Neuroscience, 2017, 9, 142.	1.7	10
114	A Plasma Proteomic Signature of Skeletal Muscle Mitochondrial Function. International Journal of Molecular Sciences, 2020, 21, 9540.	1.8	10
115	Proteomics and Epidemiological Models of Human Aging. Frontiers in Physiology, 2021, 12, 674013.	1.3	10
116	Genomeâ€Wide Interactions with Dairy Intake for Body Mass Index in Adults of European Descent. Molecular Nutrition and Food Research, 2018, 62, 1700347.	1.5	9
117	Dietary Pattern Trajectories in Middle Age and Physical Function in Older Age. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 513-519.	1.7	9
118	No Evidence for Genome-Wide Interactions on Plasma Fibrinogen by Smoking, Alcohol Consumption and Body Mass Index: Results from Meta-Analyses of 80,607 Subjects. PLoS ONE, 2014, 9, e111156.	1.1	8
119	Whole-genome sequencing to understand the genetic architecture of common gene expression and biomarker phenotypes. Human Molecular Genetics, 2015, 24, 1504-1512.	1.4	8
120	Adherence to the Mediterranean diet assessed by a novel dietary biomarker score and mortality in older adults: the InCHIANTI cohort study. BMC Medicine, 2021, 19, 280.	2.3	8
121	Elevated Plasma Growth and Differentiation Factor 15 Predicts Incident Anemia in Older Adults Aged 60 Years and Older. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 1192-1197.	1.7	7
122	Genome-wide Association Study of Parental Life Span. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, glw206.	1.7	6
123	Predicting physiological aging rates from a range of quantitative traits using machine learning. Aging, 2021, 13, 23471-23516.	1.4	6
124	Genetics of Energy and Macronutrient Intake in Humans. Current Nutrition Reports, 2014, 3, 170-177.	2.1	3
125	Cardiovascular Health Is Associated With Disability Among Older Community Dwelling Men and Women. Journal of Aging and Health, 2019, 31, 1339-1352.	0.9	3
126	Getting closer to the clinic. ELife, 2022, 11, .	2.8	3

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127	Metabolomic Profile of Different Dietary Patterns and Their Association with Frailty Index in Community-Dwelling Older Men and Women. Nutrients, 2022, 14, 2237.	1.7	3
128	Interaction between Apolipoprotein E and Butyrylcholinesterase Genes on Risk of Alzheimer's Disease in a Prospective Cohort Study. Journal of Alzheimer's Disease, 2020, 75, 417-427.	1.2	2
129	Plasma Growth and Differentiation Factor 15 Predict Longitudinal Changes in Bone Parameters in Women, but Not in Men. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 1951-1958.	1.7	2
130	Prior psychosocial profile and perceived impact of the COVID-19 pandemic: insights from the Baltimore Longitudinal Study of Aging. Aging Clinical and Experimental Research, 2022, 34, 1463-1469.	1.4	1
131	A Golden Age of Aging Biomarker Discovery. Journal of Nutrition, Health and Aging, 2022, 26, 543-544.	1.5	1
132	Contribution of Diet and Genes to Polyunsaturated Fatty Acid Composition. Current Cardiovascular Risk Reports, 2011, 5, 45-51.	0.8	0
133	A SERUM PROTEIN SIGNATURE OF APOE GENOTYPES IN CENTENARIANS. Innovation in Aging, 2019, 3, S621-S622.	0.0	0
134	Caffeine, alcohol and overall nutrient adequacy are associated with longitudinal cognitive performance among US adults. FASEB Journal, 2013, 27, 346.4.	0.2	0