Karen A Lillycrop

List of Publications by Year
in descending order

129 papers	9,264 citations	61687 45 h-index	45040 94 g-index
130 all docs	130 docs citations	130 times ranked	9466 citing authors

#	Article	IF	Citations
1	Adiposity associated DNA methylation signatures in adolescents are related to leptin and perinatal factors. Epigenetics, 2022, 17, 819-836.	1.3	10
2	Folate and vitamin B12 status: associations with maternal glucose and neonatal DNA methylation sites related to dysglycaemia, in pregnant women with obesity. Journal of Developmental Origins of Health and Disease, 2022, 13, 168-176.	0.7	6
3	Human non-CpG methylation patterns display both tissue-specific and inter-individual differences suggestive of underlying function. Epigenetics, 2022, 17, 653-664.	1.3	8
4	Epigenomeâ€wide association study of sarcopenia: findings from the Hertfordshire Sarcopenia Study (HSS). Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 240-253.	2.9	13
5	DNA methylation signatures associated with cardiometabolic risk factors in children from India and The Gambia: results from the EMPHASIS study. Clinical Epigenetics, 2022, 14, 6.	1.8	4
6	Modification of subcutaneous white adipose tissue inflammation by omega-3 fatty acids is limited in human obesity-a double blind, randomised clinical trial. EBioMedicine, 2022, 77, 103909.	2.7	23
7	Lipidomic Analysis of Plasma from Healthy Men and Women Shows Phospholipid Class and Molecular Species Differences between Sexes. Lipids, 2021, 56, 229-242.	0.7	8
8	DNA methylation signatures in cord blood associated with birthweight are enriched for dmCpGs previously associated with maternal hypertension or pre-eclampsia, smoking and folic acid intake. Epigenetics, 2021, , 1-17.	1.3	3
9	Altered H19/miRâ€675 expression in skeletal muscle is associated with low muscle mass in communityâ€dwelling older adults. JCSM Rapid Communications, 2021, 4, 207-221.	0.6	0
10	Dietary Supplementation with Transgenic Camelina sativa Oil Containing 20:5n-3 and 22:6n-3 or Fish Oil Induces Differential Changes in the Transcriptome of CD3+ T Lymphocytes. Nutrients, 2021, 13, 3116.	1.7	1
11	Influence of Maternal Lifestyle and Diet on Perinatal DNA Methylation Signatures Associated With Childhood Arterial Stiffness at 8 to 9 Years. Hypertension, 2021, 78, 787-800.	1.3	10
12	Dysregulation of endocannabinoid concentrations in human subcutaneous adipose tissue in obesity and modulation by omega-3 polyunsaturated fatty acids. Clinical Science, 2021, 135, 185-200.	1.8	17
13	The Partitioning of Newly Assimilated Linoleic and Î±-Linolenic Acids Between Synthesis of Longer-Chain Polyunsaturated Fatty Acids and Hydroxyoctadecaenoic Acids Is a Putative Branch Point in T-Cell Essential Fatty Acid Metabolism. Frontiers in Immunology, 2021, 12, 740749.	2.2	8
14	Fetal programming and epigenetics. Current Opinion in Endocrine and Metabolic Research, 2020, 13, 1-6.	0.6	20
15	Effect of maternal preconceptional and pregnancy micronutrient interventions on childrenâ€™s DNA methylation: Findings from the EMPHASIS study. American Journal of Clinical Nutrition, 2020, 112, 1099-1113.	2.2	21
16	Docosahexaenoic acid and oleic acid induce altered DNA methylation of individual CpG loci in Jurkat T cells. Prostaglandins Leukotrienes and Essential Fatty Acids, 2020, 158, 102128.	1.0	6
17	Dietary supplementation with seed oil from transgenic<i>Camelina sativa</i>induces similar increments in plasma and erythrocyte DHA and EPA to fish oil in healthy humans. British Journal of Nutrition, 2020, 124, 922-930.	1.2	23
18	Ursodeoxycholic acid improves feto-placental and offspring metabolic outcomes in hypercholanemic pregnancy. Scientific Reports, 2020, 10, 10361.	1.6	10

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19	Differential postprandial incorporation of 20:5n-3 and 22:6n-3 into individual plasma triacylglycerol and phosphatidylcholine molecular species in humans. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158710.	1.2	6
20	Maternal dysglycaemia, changes in the infantâ€™s epigenome modified with a diet and physical activity intervention in pregnancy: Secondary analysis of a randomised control trial. PLoS Medicine, 2020, 17, e1003229.	3.9	60
21	Title is missing!. , 2020, 17, e1003229.		0
22	Title is missing!. , 2020, 17, e1003229.		0
23	Title is missing!. , 2020, 17, e1003229.		0
24	Title is missing!. , 2020, 17, e1003229.		0
25	Title is missing!. , 2020, 17, e1003229.		0
26	Title is missing!. , 2020, 17, e1003229.		0
27	Dietary Fish Oil Alters DNA Methylation of Genes Involved in Polyunsaturated Fatty Acid Biosynthesis in Muscle and Liver of Atlantic Salmon (<i>Salmo salar</i>). Lipids, 2019, 54, 725-739.	0.7	6
28	In Epigenomic Studies, Including Cell-Type Adjustments in Regression Models Can Introduce Multicollinearity, Resulting in Apparent Reversal of Direction of Association. Frontiers in Genetics, 2019, 10, 816.	1.1	20
29	Epigenetic Age Acceleration in Adolescence Associates With BMI, Inflammation, and Risk Score for Middle Age Cardiovascular Disease. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 3012-3024.	1.8	53
30	Postprandial incorporation of EPA and DHA from transgenic Camelina sativa oil into blood lipids is equivalent to that from fish oil in healthy humans. British Journal of Nutrition, 2019, 121, 1235-1246.	1.2	25
31	Nutritional modulation of the epigenome and its implication for future health. Proceedings of the Nutrition Society, 2019, 78, 305-312.	0.4	15
32	Mitochondrial oxidative capacity and NAD+ biosynthesis are reduced in human sarcopenia across ethnicities. Nature Communications, 2019, 10, 5808.	5.8	159
33	Differential SLC6A4 methylation: a predictive epigenetic marker of adiposity from birth to adulthood. International Journal of Obesity, 2019, 43, 974-988.	1.6	19
34	Gestational Vitamin D Supplementation Leads to Reduced Perinatal RXRA DNA Methylation: Results From the MAVIDOS Trial. Journal of Bone and Mineral Research, 2019, 34, 231-240.	3.1	36
35	Epigenome-wide association study of adiposity and future risk of obesity-related diseases. International Journal of Obesity, 2018, 42, 2022-2035.	1.6	43
36	Vitamin B₁₂ supplementation influences methylation of genes associated with Type 2 diabetes and its intermediate traits. Epigenomics, 2018, 10, 71-90.	1.0	42

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37	Interactions Between Polyunsaturated Fatty Acids and the Epigenome. , 2018, , 225-239.		3
38	Polyunsaturated Fatty Acid Biosynthesis Involving Î”8 Desaturation and Differential DNA Methylation of FADS2 Regulates Proliferation of Human Peripheral Blood Mononuclear Cells. Frontiers in Immunology, 2018, 9, 432.	2.2	20
39	Candidate genes linking maternal nutrient exposure to offspring health via DNA methylation: a review of existing evidence in humans with specific focus on one-carbon metabolism. International Journal of Epidemiology, 2018, 47, 1910-1937.	0.9	51
40	Early-Life Nutrition, Epigenetics and Prevention of Obesity. , 2018, , 427-456.		2
41	Perinatal DNA Methylation at <i>CDKN2A</i> Is Associated With Offspring Bone Mass: Findings From the Southampton Women's Survey. Journal of Bone and Mineral Research, 2017, 32, 2030-2040.	3.1	32
42	ANRIL Promoter DNA Methylation: A Perinatal Marker for Later Adiposity. EBioMedicine, 2017, 19, 60-72.	2.7	65
43	Is cellular heterogeneity merely a confounder to be removed from epigenome-wide association studies?. Epigenomics, 2017, 9, 1143-1150.	1.0	42
44	<scp>DNA</scp> methylation of Th2 lineage determination genes at birth is associated with allergic outcomes in childhood. Clinical and Experimental Allergy, 2017, 47, 1599-1608.	1.4	38
45	DNA methylation of amino acid transporter genes in the human placenta. Placenta, 2017, 60, 64-73.	0.7	20
46	Transcriptome-wide analysis suggests that temporal changes in the relative contributions of hyperplasia, hypertrophy and apoptosis underlie liver growth in pregnant miceâ€. Biology of Reproduction, 2017, 97, 762-771.	1.2	3
47	Protocol for the EMPHASIS study; epigenetic mechanisms linking maternal pre-conceptional nutrition and childrenâ€™s health in India and Sub-Saharan Africa. BMC Nutrition, 2017, 3, .	0.6	14
48	DNA methylation at birth within the promoter of ANRIL predicts markers of cardiovascular risk at 9Âyears. Clinical Epigenetics, 2016, 8, 90.	1.8	49
49	Folic acid induces cell type-specific changes in the transcriptome of breast cancer cell lines: a proof-of-concept study. Journal of Nutritional Science, 2016, 5, e17.	0.7	16
50	Development, Epigenetics and Metabolic Programming. Nestle Nutrition Institute Workshop Series, 2016, 85, 71-80.	1.5	60
51	Association between perinatal methylation of the neuronal differentiation regulator<i>HES1</i>and later childhood neurocognitive function and behaviour. International Journal of Epidemiology, 2015, 44, 1263-1276.	0.9	37
52	Polyunsaturated fatty acid biosynthesis is involved in phenylephrine-mediated calcium release in vascular smooth muscle cells. Prostaglandins Leukotrienes and Essential Fatty Acids, 2015, 101, 31-39.	1.0	6
53	The Early Life Origins of Cardiovascular Disease. Current Cardiovascular Risk Reports, 2015, 9, 1.	0.8	5
54	The Link Between Early Life Nutrition and Cancer Risk. Current Nutrition Reports, 2015, 4, 6-12.	2.1	2

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55	Folic acid supplementation in vitro induces cell typeâ€“specific changes in BRCA1 and BRCA 2 mRNA expression, but does not alter DNA methylation of their promoters or DNA repair. Nutrition Research, 2015, 35, 532-544.	1.3	14
56	Maternal diabetes, gestational diabetes and the role of epigenetics in their long term effects on offspring. Progress in Biophysics and Molecular Biology, 2015, 118, 55-68.	1.4	96
57	Genome-wide methylation analysis identifies differentially methylated CpG loci associated with severe obesity in childhood. Epigenetics, 2015, 10, 995-1005.	1.3	84
58	Treating liver fat and serum triglyceride levels in NAFLD, effects of PNPLA3 and TM6SF2 genotypes: Results from the WELCOME trial. Journal of Hepatology, 2015, 63, 1476-1483.	1.8	90
59	Fat and Carbohydrate Intake over Three Generations Modify Growth, Metabolism and Cardiovascular Phenotype in Female Mice in an Age-Related Manner. PLoS ONE, 2015, 10, e0134664.	1.1	7
60	Differential Pathways to Adult Metabolic Dysfunction following Poor Nutrition at Two Critical Developmental Periods in Sheep. PLoS ONE, 2014, 9, e90994.	1.1	11
61	Environmental challenge, epigenetic plasticity and the induction of altered phenotypes in mammals. Epigenomics, 2014, 6, 623-636.	1.0	31
62	Childhood Bone Mineral Content Is Associated With Methylation Status of the RXRA Promoter at Birth. Journal of Bone and Mineral Research, 2014, 29, 600-607.	3.1	73
63	DNA methylation, ageing and the influence of early life nutrition. Proceedings of the Nutrition Society, 2014, 73, 413-421.	0.4	44
64	Fatty acids and epigenetics. Current Opinion in Clinical Nutrition and Metabolic Care, 2014, 17, 156-161.	1.3	112
65	Environment-physiology, diet quality and energy balance: The influence of early life nutrition on future energy balance. Physiology and Behavior, 2014, 134, 119-122.	1.0	16
66	PGC1Â Promoter Methylation in Blood at 5-7 Years Predicts Adiposity From 9 to 14 Years (EarlyBird 50). Diabetes, 2014, 63, 2528-2537.	0.3	86
67	Phenotypic and Epigenetic Inheritance Across Multiple Generations in Mammals Through the Female Line. , 2014, , 269-277.		2
68	Effect of sex hormones on n-3 polyunsaturated fatty acid biosynthesis in HepG2 cells and in human primary hepatocytes. Prostaglandins Leukotrienes and Essential Fatty Acids, 2014, 90, 47-54.	1.0	46
69	Nutrition and Epigenetics in Human Health. Medical Epigenetics, 2014, 2, 20-27.	262.3	4
70	Breast Cancer and the Importance of Early Life Nutrition. Cancer Treatment and Research, 2014, 159, 269-285.	0.2	14
71	Supplementation with N-3 Long-Chain Polyunsaturated Fatty Acids or Olive Oil in Men and Women with Renal Disease Induces Differential Changes in the DNA Methylation of FADS2 and ELOVL5 in Peripheral Blood Mononuclear Cells. PLoS ONE, 2014, 9, e109896.	1.1	93
72	Correction of unexpected distributions of P values from analysis of whole genome arrays by rectifying violation of statistical assumptions. BMC Genomics, 2013, 14, 161.	1.2	28

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73	Maternal fat intake in rats alters 20:4n-6 and 22:6n-3 status and the epigenetic regulation of Fads2 in offspring liver. Journal of Nutritional Biochemistry, 2013, 24, 1213-1220.	1.9	104
74	Non-Imprinted Epigenetics in Fetal and Postnatal Development and Growth. Nestle Nutrition Institute Workshop Series, 2013, 71, 57-63.	1.5	47
75	Role of DNA methyltransferase 1 on the altered eNOS expression in human umbilical endothelium from intrauterine growth restricted fetuses. Epigenetics, 2013, 8, 944-952.	1.3	64
76	Tissue-Specific 5â€² Heterogeneity of PPARÎ± Transcripts and Their Differential Regulation by Leptin. PLoS ONE, 2013, 8, e67483.	1.1	9
77	Increasing the folic acid content of maternal or post-weaning diets induces differential changes in phosphoenolpyruvate carboxykinase mRNA expression and promoter methylation in rats. British Journal of Nutrition, 2012, 108, 852-857.	1.2	46
78	Epigenetics. Current Opinion in Clinical Nutrition and Metabolic Care, 2012, 15, 442-447.	1.3	42
79	An unbalanced maternal diet in pregnancy associates with offspring epigenetic changes in genes controlling glucocorticoid action and foetal growth. Clinical Endocrinology, 2012, 77, 808-815.	1.2	115
80	Epigenetic Approaches to Control Obesity. , 2012, , 297-320.		0
81	Epigenetic mechanisms linking early nutrition to long term health. Best Practice and Research in Clinical Endocrinology and Metabolism, 2012, 26, 667-676.	2.2	153
82	Folic acid supplementation in pregnancy: are there devils in the detail?. British Journal of Nutrition, 2012, 108, 1924-1930.	1.2	59
83	Predicting Later-Life Outcomes of Early-Life Exposures. Environmental Health Perspectives, 2012, 120, 1353-1361.	2.8	155
84	Associations between DNA methylation of a glucocorticoid receptor promoter and acute stress responses in a large healthy adult population are largely explained by lifestyle and educational differences. Psychoneuroendocrinology, 2012, 37, 782-788.	1.3	50
85	Evaluation of Methylation Status of the eNOS Promoter at Birth in Relation to Childhood Bone Mineral Content. Calcified Tissue International, 2012, 90, 120-127.	1.5	47
86	Vascular Dysfunction Induced in Offspring by Maternal Dietary Fat Involves Altered Arterial Polyunsaturated Fatty Acid Biosynthesis. PLoS ONE, 2012, 7, e34492.	1.1	53
87	The Effect of Nutrition during Early Life on the Epigenetic Regulation of Transcription and Implications for Human Diseases. Journal of Nutrigenetics and Nutrigenomics, 2011, 4, 248-260.	1.8	27
88	Epigenetic Gene Promoter Methylation at Birth Is Associated With Childâ€™s Later Adiposity. Diabetes, 2011, 60, 1528-1534.	0.3	678
89	Dietary Protein Restriction during F0 Pregnancy in Rats Induces Transgenerational Changes in the Hepatic Transcriptome in Female Offspring. PLoS ONE, 2011, 6, e21668.	1.1	65
90	Epigenetic changes in early life and future risk of obesity. International Journal of Obesity, 2011, 35, 72-83.	1.6	169

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91	Developmental plasticity and developmental origins of non-communicable disease: Theoretical considerations and epigenetic mechanisms. Progress in Biophysics and Molecular Biology, 2011, 106, 272-280.	1.4	248
92	Effect of maternal diet on the epigenome: implications for human metabolic disease. Proceedings of the Nutrition Society, 2011, 70, 64-72.	0.4	93
93	Epigenetic Mechanisms in the Developmental Origins of Adult Disease. , 2011, , 187-204.		2
94	Progressive, Transgenerational Changes in Offspring Phenotype and Epigenotype following Nutritional Transition. PLoS ONE, 2011, 6, e28282.	1.1	107
95	Evidence for Epigenetic Changes as a Cause of Clinical Obesity. Growth Hormone, 2011, , 147-166.	0.2	0
96	Maternal protein restriction with or without folic acid supplementation during pregnancy alters the hepatic transcriptome in adult male rats. British Journal of Nutrition, 2010, 103, 1711-1719.	1.2	77
97	Diet, Nutrition and Modulation of Genomic Expression in Fetal Origins of Adult Disease. World Review of Nutrition and Dietetics, 2010, 101, 56-72.	0.1	12
98	Nutrition, Epigenetics, and Developmental Plasticity: Implications for Understanding Human Disease. Annual Review of Nutrition, 2010, 30, 315-339.	4.3	332
99	Effect of sex and dietary fat intake on the fatty acid composition of phospholipids and triacylglycerol in rat heart. Prostaglandins Leukotrienes and Essential Fatty Acids, 2010, 83, 219-223.	1.0	13
100	Bridging the gap between epigenetics research and nutritional public health interventions. Genome Medicine, 2010, 2, 80.	3.6	28
101	Nutrition in early life, and risk of cancer and metabolic disease: alternative endings in an epigenetic tale?. British Journal of Nutrition, 2009, 101, 619-630.	1.2	83
102	Comment on Unterberger et al. J Med Primatol 38 (2009) 219â€227. Journal of Medical Primatology, 2009, 38, 455-456.	0.3	2
103	Folic Acid Supplementation during the Juvenile-Pubertal Period in Rats Modifies the Phenotype and Epigenotype Induced by Prenatal Nutrition. Journal of Nutrition, 2009, 139, 1054-1060.	1.3	183
104	Epigenetics and the Influence of Maternal Diet. , 2009, , 11-20.		5
105	Feeding pregnant rats a protein-restricted diet persistently alters the methylation of specific cytosines in the hepatic PPARÎ± promoter of the offspring. British Journal of Nutrition, 2008, 100, 278-282.	1.2	438
106	Sex, but not maternal protein or folic acid intake, determines the fatty acid composition of hepatic phospholipids, but not of triacylglycerol, in adult rats. Prostaglandins Leukotrienes and Essential Fatty Acids, 2008, 78, 73-79.	1.0	52
107	The nature of the growth pattern and of the metabolic response to fasting in the rat are dependent upon the dietary protein and folic acid intakes of their pregnant dams and post-weaning fat consumption. British Journal of Nutrition, 2008, 99, 540-549.	1.2	90
108	Dietary protein restriction of pregnant rats in the F0 generation induces altered methylation of hepatic gene promoters in the adult male offspring in the F1 and F2 generations. British Journal of Nutrition, 2007, 97, 435-439.	1.2	415

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109	Epigenetic regulation of transcription: a mechanism for inducing variations in phenotype (fetal) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1036-1046.	1.2	306
110	Metabolic plasticity during mammalian development is directionally dependent on early nutritional status. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12796-12800.	3.3	294
111	Induction of altered epigenetic regulation of the hepatic glucocorticoid receptor in the offspring of rats fed a protein-restricted diet during pregnancy suggests that reduced DNA methyltransferase-1 expression is involved in impaired DNA methylation and changes in histone modifications. British Journal of Nutrition, 2007, 97, 1064-1073.	1.2	539
112	Epigenetic Mechanisms and the Mismatch Concept of the Developmental Origins of Health and Disease. Pediatric Research, 2007, 61, 5R-10R.	1.1	471
113	Dietary Protein Restriction of Pregnant Rats Induces and Folic Acid Supplementation Prevents Epigenetic Modification of Hepatic Gene Expression in the Offspring. Journal of Nutrition, 2005, 135, 1382-1386.	1.3	957
114	Effect of reduced maternal protein consumption during pregnancy in the rat on plasma lipid concentrations and expression of peroxisomal proliferatorâ€"activated receptors in the liver and adipose tissue of the offspring. Nutrition Research, 2004, 24, 639-646.	1.3	46
115	Lysophosphatidic acid attenuates the cytotoxic effects and degree of peroxisome proliferator-activated receptor Î³ activation induced by 15-deoxyÎ"12,14-prostaglandin J2 in neuroblastoma cells. Biochemical Journal, 2004, 382, 83-91.	1.7	26
116	Regulation of cellular processes by PPARÎ³ ligands in neuroblastoma cells is modulated by the level of retinoblastoma protein expression. Biochemical Society Transactions, 2004, 32, 840-842.	1.6	16
117	The Expression of the Developmentally Regulated Proto-oncogenePax-3 Is Modulated by N-Myc. Journal of Biological Chemistry, 2002, 277, 34815-34825.	1.6	43
118	Effect of fatty acid supplementation on growth and differentiation of human IMR-32 neuroblastoma cells in vitro. Journal of Cellular Biochemistry, 2001, 80, 266-273.	1.2	19
119	Induction of antisense <i>Pax-3</i> expression leads to the rapid morphological differentiation of neuronal cells and an altered response to the mitogenic growth factor bFGF. Journal of Cell Science, 1999, 112, 253-261.	1.2	19
120	The DNA binding activity of the paired box transcription factor Pax-3 is rapidly downregulated during neuronal cell differentiation. FEBS Letters, 1998, 422, 118-122.	1.3	13
121	Activation of the Î±-Internexin Promoter by the Brn-3a Transcription Factor Is Dependent on the N-terminal Region of the Protein. Journal of Biological Chemistry, 1995, 270, 2853-2858.	1.6	63
122	Down regulation of the octamer binding protein Oct-1 during growth arrest and differentiation of a neuronal cell line. Molecular Brain Research, 1995, 28, 47-54.	2.5	17
123	The levels of the antagonistic POU family transcription factors Brn-3a and Brn-3b in neuronal cells are regulated in opposite directions by serum growth factors. Neuroscience Letters, 1995, 185, 48-51.	1.0	16
124	The Oct-2 transcription factor represses tyrosine hydroxylase expression via a heptamer TAATGARAT-like motif in the gene promoter. Nucleic Acids Research, 1994, 22, 1023-1028.	6.5	45
125	The DNA target site for the Brn-3 POU family transcription factors can confer responsiveness to cyclic AMP and removal of serum in neuronal cells. Nucleic Acids Research, 1994, 22, 3092-3098.	6.5	40
126	Inhibition of herpes simplex virus infection by ectopic expression of neuronal splice variants of the Oct-2 transcription factor. Nucleic Acids Research, 1994, 22, 815-820.	6.5	31

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127	A novel POU family transcription factor is closely related to Brn-3 but has a distinct expression pattern in neuronal cells. Nucleic Acids Research, 1992, 20, 5093-5096.	6.5	120
128	The octamer-binding protein Oct-2 represses HSV immediate-early genes in cell lines derived from latently infectable sensory neurons. Neuron, 1991, 7, 381-390.	3.8	129
129	Pre- and periconceptual health and the HPA axis. , 0, , 17-34.		0