Elina Ikonen

List of Publications by Year
in descending order

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145	23,387	36691 53	15698 129
papers	citations	h-index	g-index

152	152	152	29185
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cholesterol transport in the late endocytic pathway: Roles of ORP family proteins. Journal of Steroid Biochemistry and Molecular Biology, 2022, 216, 106040.	1.2	11
2	Seipin localizes at endoplasmic-reticulum-mitochondria contact sites to control mitochondrial calcium import and metabolism in adipocytes. Cell Reports, 2022, 38, 110213.	2.9	29
3	Multiparametric platform for profiling lipid trafficking in human leukocytes. Cell Reports Methods, 2022, 2, 100166.	1.4	3
4	DGAT1 activity synchronises with mitophagy to protect cells from metabolic rewiring by ironâ€‰â€‰depletion. EMBO Journal, 2022, 41, e109390.	3.5	22
5	Lipid Droplet Nucleation. Trends in Cell Biology, 2021, 31, 108-118.	3.6	88
6	LAPTM4B controls the sphingolipid and ether lipid signature of small extracellular vesicles. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158855.	1.2	8
7	Inter- and intra-membrane lipid transport. , 2021, , 457-486.		0
8	Regression plane concept for analysing continuous cellular processes with machine learning. Nature Communications, 2021, 12, 2532.	5.8	8
9	Cholesterol transport between cellular membranes: A balancing act between interconnected lipid fluxes. Developmental Cell, 2021, 56, 1430-1436.	3.1	41
10	ORP2 couples LDLâ€cholesterol transport to FAK activation by endosomal cholesterol/PI(4,5)P₂ exchange. EMBO Journal, 2021, 40, e106871.	3.5	34
11	Seipin traps triacylglycerols to facilitate their nanoscale clustering in the endoplasmic reticulum membrane. PLoS Biology, 2021, 19, e3000998.	2.6	54
12	Specific subdomain localization of ER resident proteins and membrane contact sites resolved by electron microscopy. European Journal of Cell Biology, 2021, 100, 151180.	1.6	11
13	Desmosterol suppresses macrophage inflammasome activation and protects against vascular inflammation and atherosclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	50
14	Annexin A6 modulates TBC1D15/Rab7/StARD3 axis to control endosomal cholesterol export in NPC1 cells. Cellular and Molecular Life Sciences, 2020, 77, 2839-2857.	2.4	54
15	Seipin-Mediated Contacts as Gatekeepers of Lipid Flux at the Endoplasmic Reticulumâ€“Lipid Droplet NexusÂ. Contact (Thousand Oaks (Ventura County, Calif)), 2020, 3, 251525642094582.	0.4	13
16	The cell biology of lipid droplets: More than just a phase. Seminars in Cell and Developmental Biology, 2020, 108, 1-3.	2.3	6
17	Lysosome Associated Protein Transmembrane 4B-24 Is the Predominant Protein Isoform in Human Tissues and Undergoes Rapid, Nutrient-Regulated Turnover. American Journal of Pathology, 2020, 190, 2018-2028.	1.9	5
18	ORP2, a cholesterol transporter, regulates angiogenic signaling in endothelial cells. FASEB Journal, 2020, 34, 14671-14694.	0.2	13

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19	Membrane Curvature Catalyzes Lipid Droplet Assembly. Current Biology, 2020, 30, 2481-2494.e6.	1.8	80
20	Stromal CAVIN1 Controls Prostate Cancer Microenvironment and Metastasis by Modulating Lipid Distribution and Inflammatory Signaling. Molecular Cancer Research, 2020, 18, 1414-1426.	1.5	19
21	Highâ€content imaging and structureâ€based predictions reveal functional differences between Niemannâ€Pick C1 variants. Traffic, 2020, 21, 386-397.	1.3	14
22	Lysosomal integral membrane protein-2 (LIMP-2/SCARB2) is involved in lysosomal cholesterol export. Nature Communications, 2019, 10, 3521.	5.8	99
23	Shuttling HDL Cholesterol to the Membrane via Metastable Receptor Multimers. Developmental Cell, 2019, 50, 257-258.	3.1	4
24	HSP70 induces liver X receptor pathway activation and cholesterol reduction inÂvitro and inÂvivo. Molecular Metabolism, 2019, 28, 135-143.	3.0	12
25	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. PLoS Biology, 2019, 17, e3000443.	2.6	51
26	An efficient auxin-inducible degron system with low basal degradation in human cells. Nature Methods, 2019, 16, 866-869.	9.0	117
27	Seipin Facilitates Triglyceride Flow to Lipid Droplet and Counteracts Droplet Ripening via Endoplasmic Reticulum Contact. Developmental Cell, 2019, 50, 478-493.e9.	3.1	149
28	ORP2 interacts with phosphoinositides and controls the subcellular distribution of cholesterol. Biochimie, 2019, 158, 90-101.	1.3	34
29	Moving out but keeping in touch: contacts between endoplasmic reticulum and lipid droplets. Current Opinion in Cell Biology, 2019, 57, 64-70.	2.6	48
30	Human PNPLA3-I148M variant increases hepatic retention of polyunsaturated fatty acids. JCI Insight, 2019, 4, .	2.3	93
31	Mitochondrial biogenesis is transcriptionally repressed in lysosomal lipid storage diseases. ELife, 2019, 8, .	2.8	56
32	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
33	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
34	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
35	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
36	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0

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37	Aster Proteins Facilitate Nonvesicular Plasma Membrane to ER Cholesterol Transport in Mammalian Cells. Cell, 2018, 175, 514-529.e20.	13.5	177
38	Mechanisms of cellular cholesterol compartmentalization: recent insights. Current Opinion in Cell Biology, 2018, 53, 77-83.	2.6	49
39	A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction. ACS Central Science, 2018, 4, 548-558.	5.3	29
40	Association of tamoxifen resistance and lipid reprogramming in breast cancer. BMC Cancer, 2018, 18, 850.	1.1	113
41	OSBP-related protein-2 (ORP2): a novel Akt effector that controls cellular energy metabolism. Cellular and Molecular Life Sciences, 2018, 75, 4041-4057.	2.4	27
42	Plant sterols, cholesterol precursors and oxysterols: Minute concentrationsâ€"Major physiological effects. Journal of Steroid Biochemistry and Molecular Biology, 2017, 169, 4-9.	1.2	23
43	Severe neurodegenerative disease in brothers with homozygous mutation in POLR1A. European Journal of Human Genetics, 2017, 25, 315-323.	1.4	23
44	Introducing inducible fluorescent split cholesterol oxidase to mammalian cells. Journal of Biological Chemistry, 2017, 292, 8811-8822.	1.6	10
45	Sphingolipid metabolic flow controls phosphoinositide turnover at the trans â€Golgi network. EMBO Journal, 2017, 36, 1736-1754.	3.5	79
46	Role for formin-like 1-dependent acto-myosin assembly in lipid droplet dynamics and lipid storage. Nature Communications, 2017, 8, 14858.	5.8	48
47	The endocytic pathways of a secretory granule membrane protein in HEK293 cells: PAM and EGF traverse a dynamic multivesicular body network together. European Journal of Cell Biology, 2017, 96, 407-417.	1.6	13
48	Concerted regulation of npc2 binding to endosomal/lysosomal membranes by bis(monoacylglycero)phosphate and sphingomyelin. PLoS Computational Biology, 2017, 13, e1005831.	1.5	27
49	Continuous Grading of Early Fibrosis in NAFLD Using Label-Free Imaging: A Proof-of-Concept Study. PLoS ONE, 2016, 11, e0147804.	1.1	34
50	Language-Agnostic Reproducible Data Analysis Using Literate Programming. PLoS ONE, 2016, 11, e0164023.	1.1	1
51	LDLâ€"cholesterol transport to the endoplasmic reticulum. Current Opinion in Lipidology, 2016, 27, 282-287.	1.2	61
52	Trim37-deficient mice recapitulate several features of the multi-organ disorder Mulibrey nanism. Biology Open, 2016, 5, 584-595.	0.6	19
53	Seipin regulates <scp>ER</scp>â€"lipid droplet contacts and cargo delivery. EMBO Journal, 2016, 35, 2699-2716.	3.5	258
54	A loss-of-function variant in OSBPL1A predisposes to low plasma HDL cholesterol levels and impaired cholesterol efflux capacity. Atherosclerosis, 2016, 249, 140-147.	0.4	28

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55	Use of <scp>BODIPY</scp>â€Cholesterol (<scp>TF</scp>â€Chol) for Visualizing Lysosomal Cholesterol Accumulation. Traffic, 2016, 17, 1054-1057.	1.3	28
56	Lipoprotein-mediated delivery of BODIPY-labeled sterol and sphingolipid analogs reveals lipid transport mechanisms in mammalian cells. Chemistry and Physics of Lipids, 2016, 194, 29-36.	1.5	8
57	Lipid transport takes the â€˜omicsâ€™ highway. Current Opinion in Lipidology, 2015, 26, 348-349.	1.2	0
58	D38-cholesterol as a Raman active probe for imaging intracellular cholesterol storage. Journal of Biomedical Optics, 2015, 21, 061003.	1.4	61
59	Elevated Levels of StAR-Related Lipid Transfer Protein 3 Alter Cholesterol Balance and Adhesiveness of Breast Cancer Cells. American Journal of Pathology, 2015, 185, 987-1000.	1.9	68
60	The impact of low-frequency and rare variants on lipid levels. Nature Genetics, 2015, 47, 589-597.	9.4	310
61	LAPTM4B facilitates late endosomal ceramide export to control cell death pathways. Nature Chemical Biology, 2015, 11, 799-806.	3.9	49
62	Deuterated Cholesterol Uptake Revealed With Stimulated Raman Microscopy. , 2015, , .		0
63	Enzymatic Oxidation of Cholesterol: Properties and Functional Effects of Cholestenone in Cell Membranes. PLoS ONE, 2014, 9, e103743.	1.1	50
64	Polarized THG Microscopy Identifies Compositionally Different Lipid Droplets in Mammalian Cells. Biophysical Journal, 2014, 107, 2230-2236.	0.2	31
65	PNPLA3 mediates hepatocyte triacylglycerol remodeling. Journal of Lipid Research, 2014, 55, 739-746.	2.0	96
66	Cholesterol precursors. Current Opinion in Lipidology, 2014, 25, 133-139.	1.2	37
67	Amyloid precursor protein Î±â€•and Î²â€cleaved ectodomains exert opposing control of cholesterol homeostasisviaSREBP2. FASEB Journal, 2014, 28, 849-860.	0.2	20
68	LDL Cholesterol Recycles to the Plasma Membrane via a Rab8a-Myosin5b-Actin-Dependent Membrane Transport Route. Developmental Cell, 2013, 27, 249-262.	3.1	92
69	What dictates the accumulation of desmosterol in the developing brain?. FASEB Journal, 2013, 27, 865-870.	0.2	33
70	Desmosterol and DHCR24: Unexpected new directions for a terminal step in cholesterol synthesis. Progress in Lipid Research, 2013, 52, 666-680.	5.3	101
71	NDRG1 functions in LDL receptor trafficking by regulating endosomal recycling and degradation. Journal of Cell Science, 2013, 126, 3961-71.	1.2	64
72	Alleviation of seipinopathy-related ER stress by triglyceride storage. Human Molecular Genetics, 2013, 22, 1157-1166.	1.4	36

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73	Cholesterol Dependence of Collagen and Echovirus 1 Trafficking along the Novel Î±2Î²1 Integrin Internalization Pathway. PLoS ONE, 2013, 8, e55465.	1.1	15
74	Lipidâ€“protein interactions. Current Opinion in Lipidology, 2012, 23, 581-583.	1.2	1
75	Endosomal Actin Remodeling by Coronin-1A Controls Lipoprotein Uptake and Degradation in Macrophages. Circulation Research, 2012, 110, 450-455.	2.0	20
76	Fatty Acyl Esterification and Deesterification of 17Î²-Estradiol in Human Breast Subcutaneous Adipose Tissue. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 3349-3356.	1.8	15
77	ORP10, a cholesterol binding protein associated with microtubules, regulates apolipoprotein B-100 secretion. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1472-1484.	1.2	30
78	Tracking Sphingosine Metabolism and Transport inÂSphingolipidoses: <scp>NPC1</scp> Deficiency as a Test Case. Traffic, 2012, 13, 1234-1243.	1.3	24
79	Cln5-deficiency in mice leads to microglial activation, defective myelination and changes in lipid metabolism. Neurobiology of Disease, 2012, 46, 19-29.	2.1	43
80	Pinkbar is an epithelial-specific BAR domain protein that generates planar membrane structures. Nature Structural and Molecular Biology, 2011, 18, 902-907.	3.6	84
81	A Hexanucleotide Repeat Expansion in C9ORF72 Is the Cause of Chromosome 9p21-Linked ALS-FTD. Neuron, 2011, 72, 257-268.	3.8	3,833
82	Role of ORPs in Sterol Transport from Plasma Membrane to ER and Lipid Droplets in Mammalian Cells. Traffic, 2011, 12, 218-231.	1.3	91
83	Role for LAMP-2 in endosomal cholesterol transport. Journal of Cellular and Molecular Medicine, 2011, 15, 280-295.	1.6	70
84	Sterol binding by OSBP-related protein 1L regulates late endosome motility and function. Cellular and Molecular Life Sciences, 2011, 68, 537-551.	2.4	87
85	Cytoplasmic oxysterol-binding proteins: sterol sensors or transporters?. Chemistry and Physics of Lipids, 2011, 164, 443-450.	1.5	39
86	Lipid droplet biogenesis. Current Opinion in Lipidology, 2011, 22, 505-506.	1.2	4
87	Synthesis and Biosynthetic Trafficking of Membrane Lipids. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004713-a004713.	2.3	74
88	Genetics and molecular biology: brain cholesterol balance â€“ not such a closed circuit after all. Current Opinion in Lipidology, 2010, 21, 93-94.	1.2	2
89	Murine cathepsin D deficiency is associated with dysmyelination/myelin disruption and accumulation of cholesteryl esters in the brain. Journal of Neurochemistry, 2010, 112, 193-203.	2.1	28
90	FTY720 Stimulates 27-Hydroxycholesterol Production and Confers Atheroprotective Effects in Human Primary Macrophages. Circulation Research, 2010, 106, 720-729.	2.0	50

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91	Zebrafish: gaining popularity in lipid research. Biochemical Journal, 2010, 429, 235-242.	1.7	162
92	Niemann-Pick C1 Modulates Hepatic Triglyceride Metabolism and Its Genetic Variation Contributes to Serum Triglyceride Levels. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1614-1620.	1.1	17
93	Rab8 Regulates ABCA1 Cell Surface Expression and Facilitates Cholesterol Efflux in Primary Human Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 883-888.	1.1	37
94	Genetics and molecular biology: identifying adipocytes and their origin. Current Opinion in Lipidology, 2009, 20, 75-76.	1.2	0
95	BODIPYâ€Cholesterol: A New Tool to Visualize Sterol Trafficking in Living Cells and Organisms. Traffic, 2008, 9, 1839-1849.	1.3	221
96	Cellular cholesterol trafficking and compartmentalization. Nature Reviews Molecular Cell Biology, 2008, 9, 125-138.	16.1	1,162
97	Cellular sterol trafficking and metabolism: spotlight on structure. Current Opinion in Cell Biology, 2008, 20, 371-377.	2.6	23
98	Comparison of cholesterol and its direct precursors along the biosynthetic pathway: Effects of cholesterol, desmosterol and 7-dehydrocholesterol on saturated and unsaturated lipid bilayers. Journal of Chemical Physics, 2008, 129, 154508.	1.2	42
99	Cholesterol Substitution Increases the Structural Heterogeneity of Caveolae. Journal of Biological Chemistry, 2008, 283, 14610-14618.	1.6	41
100	Role of lysosomal acid lipase in the intracellular metabolism of LDL-transported dehydroepiandrosterone-fatty acyl esters. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E1455-E1461.	1.8	11
101	Preface to the proceedings of the Satellite Symposium of the EAS 76th Congress and the XVth Paavo Nurmi Symposium. Annals of Medicine, 2008, 40, 4-4.	1.5	1
102	Genetics and molecular biology: a cholesterol-lowering drug with antibacterial properties. Current Opinion in Lipidology, 2008, 19, 324-325.	1.2	0
103	Endocytic Trafficking of Sphingomyelin Depends on Its Acyl Chain Length. Molecular Biology of the Cell, 2007, 18, 5113-5123.	0.9	65
104	Rab8-dependent Recycling Promotes Endosomal Cholesterol Removal in Normal and Sphingolipidosis Cells. Molecular Biology of the Cell, 2007, 18, 47-56.	0.9	89
105	Palmitoyl protein thioesterase 1 (Ppt1)-deficient mouse neurons show alterations in cholesterol metabolism and calcium homeostasis prior to synaptic dysfunction. Neurobiology of Disease, 2007, 28, 52-64.	2.1	42
106	The CCHCR1 (HCR) gene is relevant for skin steroidogenesis and downregulated in cultured psoriatic keratinocytes. Journal of Molecular Medicine, 2007, 85, 589-601.	1.7	49
107	Significance of Sterol Structural Specificity. Journal of Biological Chemistry, 2006, 281, 348-355.	1.6	121
108	Mechanisms for Cellular Cholesterol Transport: Defects and Human Disease. Physiological Reviews, 2006, 86, 1237-1261.	13.1	185

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109	When intracellular logistics fails - genetic defects in membrane trafficking. Journal of Cell Science, 2006, 119, 5031-5045.	1.2	60
110	Overexpression of OSBP-related protein 2 (ORP2) induces changes in cellular cholesterol metabolism and enhances endocytosis. Biochemical Journal, 2005, 390, 273-283.	1.7	77
111	Genetics and molecular biology. Current Opinion in Lipidology, 2005, 16, 695-697.	1.2	0
112	Defective insulin receptor activation and altered lipid rafts in Niemannâ€“Pick type C disease hepatocytes. Biochemical Journal, 2005, 391, 465-472.	1.7	61
113	MLN64 Is Involved in Actin-mediated Dynamics of Late Endocytic Organelles. Molecular Biology of the Cell, 2005, 16, 3873-3886.	0.9	71
114	Lipid Microdomains and Insulin Resistance: Is There a Connection?. Science Signaling, 2005, 2005, pe3-pe3.	1.6	44
115	Secretion of Sterols and the NPC2 Protein from Primary Astrocytes. Journal of Biological Chemistry, 2004, 279, 48654-48662.	1.6	44
116	Cellular pathology of Niemannâ€“Pick type C disease. Seminars in Cell and Developmental Biology, 2004, 15, 445-454.	2.3	89
117	Defective endocytic trafficking of NPC1 and NPC2 underlying infantile Niemann-Pick type C disease. Human Molecular Genetics, 2003, 12, 257-272.	1.4	86
118	Macrophage cholesterol transport: a critical player in foam cell formation. Annals of Medicine, 2003, 35, 146-155.	1.5	67
119	Differential Mobilization of Newly Synthesized Cholesterol and Biosynthetic Sterol Precursors from Cells. Journal of Biological Chemistry, 2003, 278, 19844-19851.	1.6	39
120	Genetics and molecular biology. Current Opinion in Lipidology, 2003, 14, 219-221.	1.2	0
121	Modulation of Cellular Cholesterol Transport and Homeostasis by Rab11. Molecular Biology of the Cell, 2002, 13, 3107-3122.	0.9	118
122	Genetics and molecular biology. Current Opinion in Lipidology, 2002, 13, 441-443.	1.2	0
123	Cognitive deficit and development of motor impairment in a mouse model of Niemann-Pick type C disease. Behavioural Brain Research, 2002, 132, 1-10.	1.2	110
124	Dynamic association of human insulin receptor with lipid rafts in cells lacking caveolae. EMBO Reports, 2002, 3, 95-100.	2.0	155
125	ORP2, a homolog of oxysterol binding protein, regulates cellular cholesterol metabolism. Journal of Lipid Research, 2002, 43, 245-255.	2.0	71
126	ORP2, a homolog of oxysterol binding protein, regulates cellular cholesterol metabolism. Journal of Lipid Research, 2002, 43, 245-55.	2.0	52

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127	Roles of lipid rafts in membrane transport. Current Opinion in Cell Biology, 2001, 13, 470-477.	2.6	587
128	A Caveolin Dominant Negative Mutant Associates with Lipid Bodies and Induces Intracellular Cholesterol Imbalance. Journal of Cell Biology, 2001, 152, 1057-1070.	2.3	294
129	The OSBP-related protein family in humans. Journal of Lipid Research, 2001, 42, 1203-1213.	2.0	177
130	Caveolins and Cellular Cholesterol Balance. Traffic, 2000, 1, 212-217.	1.3	122
131	Role of Cholesterol in Developing T-Tubules: Analogous Mechanisms for T-Tubule and Caveolae Biogenesis. Traffic, 2000, 1, 326-341.	1.3	94
132	Mobilization of late-endosomal cholesterol is inhibited by Rab guanine nucleotide dissociation inhibitor. Current Biology, 2000, 10, 95-98.	1.8	56
133	How Cells Handle Cholesterol. , 2000, 290, 1721-1726.		1,118
134	Genetic Defects of Intracellular-Membrane Transport. New England Journal of Medicine, 2000, 343, 1095-1104.	13.9	63
135	Protein and lipid sorting from thetransâ€“Golgi network to the plasma membrane in polarized cells. Seminars in Cell and Developmental Biology, 1998, 9, 503-509.	2.3	164
136	Genetics and molecular biology. Current Opinion in Lipidology, 1998, 9, 169-170.	1.2	0
137	Molecular mechanisms of intracellular cholesterol transport. Current Opinion in Lipidology, 1997, 8, 60-64.	1.2	22
138	Functional rafts in cell membranes. Nature, 1997, 387, 569-572.	13.7	8,942
139	Different requirements for NSF, SNAP, and Rab proteins in apical and basolateral transport in MDCK cells. Cell, 1995, 81, 571-580.	13.5	235
140	Prohibitin, an antiproliferative protein, is localized to mitochondria. FEBS Letters, 1995, 358, 273-277.	1.3	163
141	Transcytosis of the polymeric immunoglobulin receptor in cultured hippocampal neurons. Current Biology, 1993, 3, 635-644.	1.8	32
142	Applications of PCR in the Diseases of Genetic Isolates. Annals of Medicine, 1992, 24, 191-194.	1.5	0
143	Huntington disease in Finland: a molecular and genealogical study. Human Genetics, 1992, 89, 275-80.	1.8	7
144	Mutations causing aspartylglucosaminuria (AGU): A lysosomal accumulation disease. Human Mutation, 1992, 1, 361-365.	1.1	11

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145	In vitro mutagenesis helps to unravel the biological consequences of aspartylglucosaminuria mutation. Genomics, 1991, 11, 206-211.	1.3	42