Dennis E Vance

List of Publications by Year
in descending order

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123 papers	10,858 citations	34016 52 h-index	31759 101 g-index

125 all docs	125 docs citations	125 times ranked	10192 citing authors

#	Article	IF	Citations
1	Lipid molecular timeline profiling reveals diurnal crosstalk between the liver and circulation. Cell Reports, 2021, 34, 108710.	2.9	28
2	Genetic screening reveals phospholipid metabolism as a key regulator of the biosynthesis of the redox-active lipid coenzyme Q. Redox Biology, 2021, 46, 102127.	3.9	8
3	Implication of phosphatidylethanolamine N-methyltransferase in adipocyte differentiation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165853.	1.8	14
4	Hepatic PEMT activity mediates liver health, weight gain, and insulin resistance. FASEB Journal, 2019, 33, 10986-10995.	0.2	35
5	Phospholipid methylation regulates muscle metabolic rate through Ca2+ transport efficiency. Nature Metabolism, 2019, 1, 876-885.	5.1	30
6	A role for phosphatidylcholine and phosphatidylethanolamine in hepatic insulin signaling. FASEB Journal, 2019, 33, 5045-5057.	0.2	40
7	Impaired Hepatic Phosphatidylcholine Synthesis Leads to Cholestasis in Mice Challenged With a Highâ€Fat Diet. Hepatology Communications, 2019, 3, 262-276.	2.0	10
8	Vitamin E alleviates non-alcoholic fatty liver disease in phosphatidylethanolamine N-methyltransferase deficient mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 14-25.	1.8	42
9	Fenofibrate, but not ezetimibe, prevents fatty liver disease in mice lacking phosphatidylethanolamine N-methyltransferase. Journal of Lipid Research, 2017, 58, 656-667.	2.0	18
10	The critical role of phosphatidylcholine and phosphatidylethanolamine metabolism in health and disease. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1558-1572.	1.4	804
11	From masochistic enzymology to mechanistic physiology and disease. Journal of Biological Chemistry, 2017, 292, 17169-17177.	1.6	4
12	Pioglitazone attenuates hepatic inflammation and fibrosis in phosphatidylethanolamineN-methyltransferase-deficient mice. American Journal of Physiology - Renal Physiology, 2016, 310, G526-G538.	1.6	32
13	Novel Role for Matrix Metalloproteinase 9 in Modulation of Cholesterol Metabolism. Journal of the American Heart Association, 2016, 5, .	1.6	19
14	Lack of phosphatidylethanolamine N -methyltransferase in mice does not promote fatty acid oxidation in skeletal muscle. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 119-129.	1.2	5
15	Vagus nerve contributes to the development of steatohepatitis and obesity in phosphatidylethanolamine N-methyltransferase deficient mice. Journal of Hepatology, 2015, 62, 913-920.	1.8	15
16	Lack of phosphatidylethanolamine N-methyltransferase alters hepatic phospholipid composition and induces endoplasmic reticulum stress. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 2689-2699.	1.8	38
17	Insufficient glucose supply is linked to hypothermia upon cold exposure in high-fat diet-fed mice lacking PEMT. Journal of Lipid Research, 2015, 56, 1701-1710.	2.0	11
18	Decreased lipogenesis in white adipose tissue contributes to the resistance to high fat diet-induced obesity in phosphatidylethanolamine N-methyltransferase-deficient mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 152-162.	1.2	26

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19	Phosphatidylcholine metabolism and choline kinase in human osteoblasts. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 859-867.	1.2	18
20	The Concentration of Phosphatidylethanolamine in Mitochondria Can Modulate ATP Production and Glucose Metabolism in Mice. Diabetes, 2014, 63, 2620-2630.	0.3	80
21	Phospholipid methylation in mammals: from biochemistry to physiological function. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1477-1487.	1.4	129
22	The Epigenetic Drug 5-Azacytidine Interferes with Cholesterol and Lipid Metabolism. Journal of Biological Chemistry, 2014, 289, 18736-18751.	1.6	35
23	Choline kinase beta is required for normal endochondral bone formation. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 2112-2122.	1.1	24
24	Physiological roles of phosphatidylethanolamine N-methyltransferase. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 626-632.	1.2	108
25	Finding the balance: The role ofS-adenosylmethionine and phosphatidylcholine metabolism in development of nonalcoholic fatty liver disease. Hepatology, 2013, 58, 1207-1209.	3.6	48
26	Phosphatidylcholine biosynthesis and lipoprotein metabolism. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 754-761.	1.2	280
27	The ratio of phosphatidylcholine to phosphatidylethanolamine does not predict integrity of growing MT58 Chinese hamster ovary cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 324-334.	1.2	12
28	Choline Deficiency Attenuates Body Weight Gain and Improves Glucose Tolerance in ob/ob Mice. Journal of Obesity, 2012, 2012, 1-7.	1.1	31
29	Hepatic ratio of phosphatidylcholine to phosphatidylethanolamine predicts survival after partial hepatectomy in mice. Hepatology, 2012, 55, 1094-1102.	3.6	77
30	A Conserved SREBP-1/Phosphatidylcholine Feedback Circuit Regulates Lipogenesis in Metazoans. Cell, 2011, 147, 840-852.	13.5	373
31	Phosphatidylcholine Synthesis for Lipid Droplet Expansion Is Mediated by Localized Activation of CTP:Phosphocholine Cytidylyltransferase. Cell Metabolism, 2011, 14, 504-515.	7.2	408
32	The role of phosphatidylethanolamine methyltransferase in a mouse model of intrahepatic cholestasis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 278-283.	1.2	8
33	Phosphatidylcholine protects against steatosis in mice but not non-alcoholic steatohepatitis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 1177-1185.	1.2	52
34	Sequential Synthesis and Methylation of Phosphatidylethanolamine Promote Lipid Droplet Biosynthesis and Stability in Tissue Culture and in Vivo. Journal of Biological Chemistry, 2011, 286, 17338-17350.	1.6	91
35	A Role for Sp1 in Transcriptional Regulation of Phosphatidylethanolamine N-Methyltransferase in Liver and 3T3-L1 Adipocytes. Journal of Biological Chemistry, 2010, 285, 11880-11891.	1.6	24
36	Impaired de Novo Choline Synthesis Explains Why Phosphatidylethanolamine N-Methyltransferase-deficient Mice Are Protected from Diet-induced Obesity. Journal of Biological Chemistry, 2010, 285, 22403-22413.	1.6	168

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37	Lack of Phosphatidylethanolamine N -Methyltransferase Alters Plasma VLDL Phospholipids and Attenuates Atherosclerosis in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1349-1355.	1.1	69
38	Physiological consequences of disruption of mammalian phospholipid biosynthetic genes. Journal of Lipid Research, 2009, 50, S132-S137.	2.0	57
39	Understanding the muscular dystrophy caused by deletion of choline kinase beta in mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 347-356.	1.2	38
40	Thematic Review Series: Glycerolipids. Phosphatidylcholine and choline homeostasis. Journal of Lipid Research, 2008, 49, 1187-1194.	2.0	489
41	Transcriptional regulation of phosphatidylcholine biosynthesis. Progress in Lipid Research, 2008, 47, 204-220.	5.3	53
42	Phosphatidylcholine Biosynthesis via CTP:Phosphocholine Cytidylyltransferase Î²2 Facilitates Neurite Outgrowth and Branching. Journal of Biological Chemistry, 2008, 283, 202-212.	1.6	39
43	Early Embryonic Lethality Caused by Disruption of the Gene for Choline Kinase Î±, the First Enzyme in Phosphatidylcholine Biosynthesis. Journal of Biological Chemistry, 2008, 283, 1456-1462.	1.6	82
44	Hepatic CTP:Phosphocholine Cytidylyltransferase-Î± Is a Critical Predictor of Plasma High Density Lipoprotein and Very Low Density Lipoprotein. Journal of Biological Chemistry, 2008, 283, 2147-2155.	1.6	71
45	Role of phosphatidylcholine biosynthesis in the regulation of lipoprotein homeostasis. Current Opinion in Lipidology, 2008, 19, 229-234.	1.2	130
46	Phospholipid biosynthesis in eukaryotes. , 2008, , 213-244.		41
47	Adenovirus mediated alteration of phosphatidylethanolamine Nâ€methyltransferase expression in vivo. FASEB Journal, 2008, 22, 807.25.	0.2	0
48	Inhibition of Hepatic Phosphatidylcholine Synthesis by 5-Aminoimidazole-4-carboxamide-1-Î²-4-ribofuranoside Is Independent of AMP-activated Protein Kinase Activation. Journal of Biological Chemistry, 2007, 282, 4516-4523.	1.6	51
49	Choline Redistribution during Adaptation to Choline Deprivation. Journal of Biological Chemistry, 2007, 282, 10283-10289.	1.6	41
50	The phosphatidylethanolamine N-methyltransferase pathway is quantitatively not essential for biliary phosphatidylcholine secretion. Journal of Lipid Research, 2007, 48, 2058-2064.	2.0	16
51	Hepatic Phosphatidylethanolamine N-Methyltransferase, Unexpected Roles in Animal Biochemistry and Physiology. Journal of Biological Chemistry, 2007, 282, 33237-33241.	1.6	63
52	Increased Hepatic CD36 Expression Contributes to Dyslipidemia Associated With Diet-Induced Obesity. Diabetes, 2007, 56, 2863-2871.	0.3	395
53	Choline cannot be replaced by propanolamine in mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 486-490.	1.2	5
54	A role for high density lipoproteins in hepatic phosphatidylcholine homeostasis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 893-900.	1.2	13

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55	Methyl balance and transmethylation fluxes in humans. American Journal of Clinical Nutrition, 2007, 85, 19-25.	2.2	161
56	Early embryonic lethality caused by disruption of the gene for choline kinase alpha, the first enzyme in phosphatidylcholine biosynthesis. FASEB Journal, 2007, 21, A238.	0.2	2
57	Fundamental research is the basis for understanding and treatment of many human diseases. FEBS Letters, 2006, 580, 5430-5435.	1.3	3
58	The ratio of phosphatidylcholine to phosphatidylethanolamine influences membrane integrity and steatohepatitis. Cell Metabolism, 2006, 3, 321-331.	7.2	558
59	Is it time to reevaluate methyl balance in humans?. American Journal of Clinical Nutrition, 2006, 83, 5-10.	2.2	247
60	A Rostrocaudal Muscular Dystrophy Caused by a Defect in Choline Kinase Beta, the First Enzyme in Phosphatidylcholine Biosynthesis. Journal of Biological Chemistry, 2006, 281, 4938-4948.	1.6	102
61	Liverâ€specific phosphocholine cytidylyltransferaseâ€Î± knockout mice develop insulin resistance despite having lower plasma lipid levels. FASEB Journal, 2006, 20, A87.	0.2	0
62	Adaptation to Choline Deprivation: Choline Redistribution and Choline Storage. FASEB Journal, 2006, 20, A86.	0.2	0
63	Disruption of the murine CTP: phosphoethanolamine cytidylyltransferase gene causes embryonic lethality. FASEB Journal, 2006, 20, A950.	0.2	0
64	Inhibition of hepatic phosphatidylcholine synthesis by AICAR and phenformin is independent of AMPâ€activated protein kinase (AMPK) activation.. FASEB Journal, 2006, 20, A91.	0.2	0
65	Physiological Regulation of Phospholipid Methylation Alters Plasma Homocysteine in Mice. Journal of Biological Chemistry, 2005, 280, 28299-28305.	1.6	85
66	Phosphatidylcholine Homeostasis and Liver Failure. Journal of Biological Chemistry, 2005, 280, 37798-37802.	1.6	125
67	A Choline-deficient Diet in Mice Inhibits neither the CDP-choline Pathway for Phosphatidylcholine Synthesis in Hepatocytes nor Apolipoprotein B Secretion. Journal of Biological Chemistry, 2004, 279, 23916-23924.	1.6	85
68	Targeted Deletion of Hepatic CTP:phosphocholine Cytidylyltransferase Î± in Mice Decreases Plasma High Density and Very Low Density Lipoproteins. Journal of Biological Chemistry, 2004, 279, 47402-47410.	1.6	154
69	Phospholipid biosynthesis in mammalian cells. Biochemistry and Cell Biology, 2004, 82, 113-128.	0.9	302
70	Dimethylethanolamine does not prevent liver failure in phosphatidylethanolamine N-methyltransferase-deficient mice fed a choline-deficient diet. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2004, 1636, 175-182.	1.2	11
71	Henk van den Bosch: chemist and biochemist. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2004, 1636, 77-81.	1.2	1
72	Activation of CTP:Phosphocholine Cytidylyltransferase Î± Expression during the S Phase of the Cell Cycle Is Mediated by the Transcription Factor Sp1. Journal of Biological Chemistry, 2003, 278, 32457-32464.	1.6	38

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73	Molecular Dissection of the S-Adenosylmethionine-binding Site of Phosphatidylethanolamine N-Methyltransferase. Journal of Biological Chemistry, 2003, 278, 35826-35836.	1.6	36
74	Oncogenic Ha-Ras Transformation Modulates the Transcription of the CTP:Phosphocholine Cytidylyltransferase Î± Gene via p42/44MAPK and Transcription Factor Sp3. Journal of Biological Chemistry, 2003, 278, 14753-14761.	1.6	34
75	Membrane Topography of Human Phosphatidylethanolamine N-Methyltransferase. Journal of Biological Chemistry, 2003, 278, 2956-2962.	1.6	39
76	Enhanced Expression and Activation of CTP:Phosphocholine Cytidylyltransferase Î²2 during Neurite Outgrowth. Journal of Biological Chemistry, 2003, 278, 44988-44994.	1.6	42
77	Plasma Homocysteine Is Regulated by Phospholipid Methylation. Journal of Biological Chemistry, 2003, 278, 5952-5955.	1.6	101
78	Insights into the requirement of phosphatidylcholine synthesis for liver function in mice. Journal of Lipid Research, 2003, 44, 1998-2005.	2.0	70
79	Localization of the PE methylation pathway and SR-BI to the canalicular membrane. Journal of Lipid Research, 2003, 44, 1605-1613.	2.0	38
80	Chapter 8 Phospholipid biosynthesis in eukaryotes. New Comprehensive Biochemistry, 2002, , 205-232.	0.1	43
81	An Unexpected Requirement for PhosphatidylethanolamineN-Methyltransferase in the Secretion of Very Low Density Lipoproteins. Journal of Biological Chemistry, 2002, 277, 42358-42365.	1.6	201
82	A Stimulating Factor for Fatty Acid Biosynthesisâ€"Research with Konrad Bloch: Mentor and Friend. Biochemical and Biophysical Research Communications, 2002, 292, 1273-1278.	1.0	4
83	Konrad Blochâ€"A Pioneer in Cholesterol and Fatty Acid Biosynthesis. Biochemical and Biophysical Research Communications, 2002, 292, 1117-1120.	1.0	8
84	Choline Deficiencyâ€"Induced Liver Damage Is Reversible in Pemtâ^'/â^' Mice. Journal of Nutrition, 2002, 132, 68-71.	1.3	70
85	Structure, expression profile and alternative processing of the human phosphatidylethanolamine N-methyltransferase (PEMT) gene1Sequence data from this article have been deposited with the GenBank Data Library under accession numbers AF294460â€"AF294468 inclusive.1. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2001, 1532, 105-114.	1.2	30
86	Transcription of the CTP:Phosphocholine Cytidylyltransferase Î± Gene Is Enhanced during the S Phase of the Cell Cycle. Journal of Biological Chemistry, 2001, 276, 43688-43692.	1.6	50
87	Identification of Transcriptional Enhancer Factor-4 as a Transcriptional Modulator of CTP:Phosphocholine Cytidylyltransferase Î±. Journal of Biological Chemistry, 2001, 276, 12338-12344.	1.6	24
88	Inactivation of phosphatidylethanolamineN-methyltransferase-2 in aflatoxin-induced liver cancer and partial reversion of the neoplastic phenotype by PEMT transfection of hepatoma cells. , 2000, 86, 362-367.		16
89	Uptake of Lipoproteins for Axonal Growth of Sympathetic Neurons. Journal of Biological Chemistry, 2000, 275, 19883-19890.	1.6	96
90	Characterization of Apolipoprotein-Mediated HDL Generation Induced by cAMP in a Murine Macrophage Cell Line. Biochemistry, 2000, 39, 11092-11099.	1.2	108

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91	Functional significance of Sp1, Sp2, and Sp3 transcription factors in regulation of the murine CTP:phosphocholine cytidylyltransferase Î± promoter. Journal of Lipid Research, 2000, 41, 583-594.	2.0	42
92	The unique acyl chain specificity of biliary phosphatidylcholines in mice is independent of their biosynthetic origin in the liver. Hepatology, 1999, 30, 725-729.	3.6	30
93	Transcriptional activation of the murine CTP:phosphocholine cytidylyltransferase gene (Ctpct): combined action of upstream stimulatory and inhibitory cis-acting elements. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1438, 147-165.	1.2	40
94	Identification of three novel cDNAs for human phosphatidylethanolamine N-methyltransferase and localization of the human gene on chromosome 17p11.2. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1436, 405-412.	1.2	19
95	Cloning and expression of a cDNA encoding a hepatic microsomal lipase that mobilizes stored triacylglycerol. Biochemical Journal, 1999, 343, 1-10.	1.7	117
96	Biochemical and Evolutionary Significance of Phospholipid Methylation. Journal of Biological Chemistry, 1998, 273, 27043-27046.	1.6	205
97	Transient inactivation of phosphatidylethanolamine N-methyltransferase-2 and activation of cytidine triphosphate:phosphocholine cytidylyltransferase during non-neoplastic liver growth. Biochemical Journal, 1997, 322, 151-154.	1.7	31
98	Induction of hepatocyte proliferation after partial hepatectomy is accompanied by a markedly reduced expression of phosphatidylethanolamine N-methyltransferase-2. Lipids and Lipid Metabolism, 1997, 1346, 1-9.	2.6	52
99	Phosphatidylethanolamine N-methyltransferase from liver. Lipids and Lipid Metabolism, 1997, 1348, 142-150.	2.6	180
100	Overexpression of phosphatidylethanolamine N-methyltransferase 2 in CHO-K1 cells does not attenuate the activity of the CDP-choline pathway for phosphatidylcholine biosynthesis. Biochemical Journal, 1996, 320, 905-910.	1.7	9
101	Expression of Phosphatidylethanolamine N-Methyltransferase-2 Is Markedly Enhanced in Long Term Choline-deficient Rats. Journal of Biological Chemistry, 1996, 271, 2839-2843.	1.6	63
102	Evidence that the Major Membrane Lipids, Except Cholesterol, Are Made in Axons of Cultured Rat Sympathetic Neurons. Journal of Neurochemistry, 1994, 62, 329-337.	2.1	105
103	Effects of okadaic acid on the activities of two distinct phosphatidate phosphohydrolases in rat hepatocytes. FEBS Letters, 1992, 301, 103-106.	1.3	50
104	Evidence that the rate of phosphatidylcholine catabolism is regulated in cultured rat hepatocytes. Lipids and Lipid Metabolism, 1991, 1085, 167-177.	2.6	24
105	Reduction in VLDL, but not HDL, in plasma of rats deficient in choline. Biochemistry and Cell Biology, 1990, 68, 552-558.	0.9	128
106	Phosphatidylcholine metabolism: masochistic enzymology, metabolic regulation, and lipoprotein assembly. Biochemistry and Cell Biology, 1990, 68, 1151-1165.	0.9	181
107	Signal transduction via phosphatidylcholine cycles. Trends in Biochemical Sciences, 1989, 14, 28-30.	3.7	300
108	The methylation of phosphatidylethanolamine. Progress in Lipid Research, 1988, 27, 61-79.	5.3	221

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109	Translocation of CTP:phosphocholine cytidylyltransferase from cytosol to membranes in HeLa cells: stimulation by fatty acid, fatty alcohol, mono- and diacylglycerol. Lipids and Lipid Metabolism, 1987, 919, 26-36.	2.6	114
110	Binding of CTP:phosphocholine cytidylyltransferase to large unilamellar vesicles. Lipids and Lipid Metabolism, 1987, 919, 37-48.	2.6	45
111	A deazaadenosine-insensitive methylation of phosphatidylethanolamine is involved in lipoprotein secretion. FEBS Letters, 1986, 204, 243-246.	1.3	24
112	Regulation of phosphatidylcholine biosynthesis. BBA - Biomembranes, 1984, 779, 217-251.	7.9	375
113	Enzyme translocation in the regulation of phosphatidylcholine biosynthesis. Trends in Biochemical Sciences, 1984, 9, 17-20.	3.7	159
114	Trifluoperazine and other anaesthetics inhibit rat liver CTP: phosphocholine cytidylyltransferase. FEBS Letters, 1983, 158, 89-92.	1.3	21
115	Effect of diethylstilboestrol on phosphatidylcholine biosynthesis in the liver of roosters. Biochemical Society Transactions, 1981, 9, 98-99.	1.6	5
116	The possible functional significance of phosphatidylethanolamine methylation. Nature, 1980, 288, 277-278.	13.7	102
117	How is phosphatidylcholine biosynthesis regulated?. Trends in Biochemical Sciences, 1979, 4, 145-148.	3.7	171
118	Effect of Choline Deficiency on the Enzymes that Synthesize Phosphatidylcholine and Phosphatidylethanolamine in Rat Liver. FEBS Journal, 1978, 85, 181-187.	0.2	108
119	Immunological Studies on CTP:Phosphocholine Cytidylyltransferase from the Livers of Normal and Choline-Deficient Rats. FEBS Journal, 1978, 85, 189-193.	0.2	24
120	Asymmetry of phospholipid biosynthesis. Nature, 1977, 270, 268-269.	13.7	112
121	Choline Kinase and Ethanolamine Kinase are Separate, Soluble Enzymes in Rat Liver. FEBS Journal, 1977, 78, 491-495.	0.2	57
122	Copurification of choline kinase and ethanolamine kinase from rat liver by affinity chromatography. FEBS Letters, 1976, 62, 123-125.	1.3	29
123	Inhibition of 3-sn-Phosphatidylcholine Biosynthesis in Baby-Hamster Kidney-21 Cells Infected with Semliki Forest Virus. FEBS Journal, 1974, 43, 327-336.	0.2	33