Ingemar Bjrkhem

List of Publications by Citations

584 papers	28,394 citations	84 h-index	129 g-index
590 ext. papers	30,057 ext. citations	6 avg, IF	6.75 L-index

#	Paper	IF	Citations
584	Brain cholesterol: long secret life behind a barrier. *Arteriosclerosis, Thrombosis, and Vascular Biology* , **2004**, 24, 806-15	9.4	675
583	Cholesterol homeostasis in human brain: evidence for an age-dependent flux of 24S-hydroxycholesterol from the brain into the circulation. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 9799-804	11.5	546
582	Cholesterol homeostasis in human brain: turnover of 24S-hydroxycholesterol and evidence for a cerebral origin of most of this oxysterol in the circulation. *Journal of Lipid Research*, **1998**, 39, 1594-1600	6.3	353
581	Cholesterol homeostasis in human brain: turnover of 24S-hydroxycholesterol and evidence for a cerebral origin of most of this oxysterol in the circulation. *Journal of Lipid Research*, **1998**, 39, 1594-600	6.3	318
580	The antioxidant butylated hydroxytoluene protects against atherosclerosis. *Arteriosclerosis and Thrombosis: A Journal of Vascular Biology*, **1991**, 11, 15-22		307
579	Hepatic cholesterol metabolism and resistance to dietary cholesterol in LXRbeta-deficient mice. *Journal of Clinical Investigation*, **2001**, 107, 565-73	15.9	298
578	Two genes that map to the STSL locus cause sitosterolemia: genomic structure and spectrum of mutations involving sterolin-1 and sterolin-2, encoded by ABCG5 and ABCG8, respectively. *American Journal of Human Genetics*, **2001**, 69, 278-90	11	281
577	Atherosclerosis and sterol 27-hydroxylase: evidence for a role of this enzyme in elimination of cholesterol from human macrophages. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 8592-6	11.5	269
576	Plasma 24S-hydroxycholesterol (cerebrosterol) is increased in Alzheimer and vascular demented patients. *Journal of Lipid Research*, **2000**, 41, 195-198	6.3	261
575	Crossing the barrier: oxysterols as cholesterol transporters and metabolic modulators in the brain. *Journal of Internal Medicine*, **2006**, 260, 493-508	10.8	254
574	Plasma 24S-hydroxycholesterol (cerebrosterol) is increased in Alzheimer and vascular demented patients. *Journal of Lipid Research*, **2000**, 41, 195-8	6.3	246
573	Oxysterols: friends, foes, or just fellow passengers?. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 734-42	9.4	242
572	Influence of pravastatin, a specific inhibitor of HMG-CoA reductase, on hepatic metabolism of cholesterol. *New England Journal of Medicine*, **1990**, 323, 224-8	59.2	239
571	Changes in the levels of cerebral and extracerebral sterols in the brain of patients with Alzheimer? disease. *Journal of Lipid Research*, **2004**, 45, 186-93	6.3	230
570	Importance of a novel oxidative mechanism for elimination of brain cholesterol. Turnover of cholesterol and 24(S)-hydroxycholesterol in rat brain as measured with 18O2 techniques in vivo and in vitro. *Journal of Biological Chemistry*, **1997**, 272, 30178-84	5.4	218
569	Effects of cholesteryl ester transfer protein inhibition on high-density lipoprotein subspecies, apolipoprotein A-I metabolism, and fecal sterol excretion. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, 1057-64	9.4	206
568	Cyclodextrin promotes atherosclerosis regression via macrophage reprogramming. *Science Translational Medicine*, **2016**, 8, 333ra50	17.5	204

567	Disruption of cholesterol 7alpha-hydroxylase gene in mice. II. Bile acid deficiency is overcome by induction of oxysterol 7alpha-hydroxylase. *Journal of Biological Chemistry*, **1996**, 271, 18024-31	5.4	202
566	Markedly reduced bile acid synthesis but maintained levels of cholesterol and vitamin D metabolites in mice with disrupted sterol 27-hydroxylase gene. *Journal of Biological Chemistry*, **1998**, 273, 14805-12	5.4	201
565	24S-hydroxycholesterol in cerebrospinal fluid is elevated in early stages of dementia. *Journal of Psychiatric Research*, **2002**, 36, 27-32	5.2	199
564	Correlation between serum levels of some cholesterol precursors and activity of HMG-CoA reductase in human liver. *Journal of Lipid Research*, **1987**, 28, 1137-1143	6.3	198
563	Oxysterols and neurodegenerative diseases. *Molecular Aspects of Medicine*, **2009**, 30, 171-9	16.7	196
562	Cyp7b, a novel brain cytochrome P450, catalyzes the synthesis of neurosteroids 7alpha-hydroxy dehydroepiandrosterone and 7alpha-hydroxy pregnenolone. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 4925-30	11.5	196
561	Cerebrotendinous xanthomatosis: a defect in mitochondrial 26-hydroxylation required for normal biosynthesis of cholic acid. *Journal of Clinical Investigation*, **1980**, 65, 1418-30	15.9	195
560	Elimination of cholesterol in macrophages and endothelial cells by the sterol 27-hydroxylase mechanism. Comparison with high density lipoprotein-mediated reverse cholesterol transport. *Journal of Biological Chemistry*, **1997**, 272, 26253-61	5.4	194
559	Crossing the barrier: net flux of 27-hydroxycholesterol into the human brain. *Journal of Lipid Research*, **2005**, 46, 1047-52	6.3	184
558	Prednisolone excretion in human milk. *Journal of Pediatrics*, **1985**, 106, 1008-11	3.6	176
557	Correlation between serum levels of some cholesterol precursors and activity of HMG-CoA reductase in human liver. *Journal of Lipid Research*, **1987**, 28, 1137-43	6.3	175
556	Sterol absorption and sterol balance in phytosterolemia evaluated by deuterium-labeled sterols: effect of sitostanol treatment.. *Journal of Lipid Research*, **1995**, 36, 1763-1773	6.3	172
555	Hepatic uptake of bile acids in man. Fasting and postprandial concentrations of individual bile acids in portal venous and systemic blood serum. *Journal of Clinical Investigation*, **1982**, 70, 724-31	15.9	171
554	Cholic acid mediates negative feedback regulation of bile acid synthesis in mice. *Journal of Clinical Investigation*, **2002**, 110, 1191-1200	15.9	170
553	Do oxysterols control cholesterol homeostasis?. *Journal of Clinical Investigation*, **2002**, 110, 725-730	15.9	165
552	On the turnover of brain cholesterol in patients with Alzheimer¢ disease. Abnormal induction of the cholesterol-catabolic enzyme CYP46 in glial cells. *Neuroscience Letters*, **2001**, 314, 45-8	3.3	160
551	Sterol absorption and sterol balance in phytosterolemia evaluated by deuterium-labeled sterols: effect of sitostanol treatment. *Journal of Lipid Research*, **1995**, 36, 1763-73	6.3	158
550	Lipoprotein oxidation and progression of carotid atherosclerosis. *Circulation*, **1997**, 95, 840-5	16.7	151

549	Mechanism of degradation of the steroid side chain in the formation of bile acids.. *Journal of Lipid Research*, **1992**, 33, 455-471	6.3	141
548	Generation of viable cholesterol-free mice. *Science*, **2003**, 302, 2087	33.3	139
547	Identification and characterization of a mouse oxysterol 7alpha-hydroxylase cDNA. *Journal of Biological Chemistry*, **1997**, 272, 23995-4001	5.4	135
546	Mechanism of degradation of the steroid side chain in the formation of bile acids. *Journal of Lipid Research*, **1992**, 33, 455-71	6.3	133
545	Metabolism of 4 beta -hydroxycholesterol in humans. *Journal of Biological Chemistry*, **2002**, 277, 31534-40	5.4	132
544	Importance of a novel oxidative mechanism for elimination of intracellular cholesterol in humans. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1996**, 16, 208-12	9.4	129
543	Plasma levels of 24S-hydroxycholesterol in patients with neurological diseases. *Neuroscience Letters*, **2000**, 293, 87-90	3.3	127
542	On the rate of translocation in vitro and kinetics in vivo of the major oxysterols in human circulation: critical importance of the position of the oxygen function. *Journal of Lipid Research*, **2002**, 43, 2130-5	6.3	124
541	Formation of cholic acid from 3 alpha, 7 alpha, 12 alpha-trihydroxy-5 beta-cholestanoic acid by rat liver peroxisomes. *Journal of Lipid Research*, **1983**, 24, 1560-7	6.3	124
540	Plasma 24S-hydroxycholesterol: a peripheral indicator of neuronal degeneration and potential state marker for Alzheimer's disease. *NeuroReport*, **2000**, 11, 1959-62	1.7	121
539	Brain cholesterol synthesis in mice is affected by high dose of simvastatin but not of pravastatin. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 316, 1146-52	4.7	120
538	Omega-hydroxylation of steriod side-chain in biosynthesis of bile acids. *FEBS Journal*, **1973**, 36, 201-12		118
537	Formation of cholic acid from 3 alpha, 7 alpha, 12 alpha-trihydroxy-5 beta-cholestanoic acid by rat liver peroxisomes.. *Journal of Lipid Research*, **1983**, 24, 1560-1567	6.3	117
536	The neurotoxic effect of 24-hydroxycholesterol on SH-SY5Y human neuroblastoma cells. *Brain Research*, **1999**, 818, 171-5	3.7	114
535	Oxysterols present in atherosclerotic tissue decrease the expression of lipoprotein lipase messenger RNA in human monocyte-derived macrophages. *Journal of Clinical Investigation*, **1996**, 97, 461-8	15.9	112
534	Omega- and (omega - 1)-oxidation of fatty acids by rat liver microsomes. *FEBS Journal*, **1970**, 17, 450-9		111
533	Cloning and expression of cDNA of human delta 4-3-oxosteroid 5 beta-reductase and substrate specificity of the expressed enzyme. *FEBS Journal*, **1994**, 219, 357-63		110
532	Side chain oxidized oxysterols in cerebrospinal fluid and the integrity of blood-brain and blood-cerebrospinal fluid barriers. *Journal of Lipid Research*, **2003**, 44, 793-9	6.3	108

531	Studies on the transcriptional regulation of cholesterol 24-hydroxylase (CYP46A1): marked insensitivity toward different regulatory axes. *Journal of Biological Chemistry*, **2006**, 281, 3810-20	5.4	106
530	Oxysterols and Alzheimer disease. *Acta Neurologica Scandinavica*, **2006**, 185, 43-9	3.8	106
529	What do commercial ginseng preparations contain?. *Lancet, The*, **1994**, 344, 134	40	106
528	Cholic acid mediates negative feedback regulation of bile acid synthesis in mice. *Journal of Clinical Investigation*, **2002**, 110, 1191-200	15.9	106
527	Chapter 9 Mechanism of bile acid biosynthesis in mammalian liver. *New Comprehensive Biochemistry* , **1985**, 12, 231-278		105
526	Broad substrate specificity of human cytochrome P450 46A1 which initiates cholesterol degradation in the brain. *Biochemistry*, **2003**, 42, 14284-92	3.2	104
525	Bile acid synthesis in humans: regulation of hepatic microsomal cholesterol 7 alpha-hydroxylase activity. *Gastroenterology*, **1989**, 97, 1498-505	13.3	103
524	Plasma levels of 24S-hydroxycholesterol reflect the balance between cerebral production and hepatic metabolism and are inversely related to body surface. *Journal of Lipid Research*, **2000**, 41, 840-845	6.3	103
523	Regulation of bile acid biosynthesis by hepatocyte nuclear factor 4alpha. *Journal of Lipid Research*, **2006**, 47, 215-27	6.3	102
522	Removal of cholesterol from extrahepatic sources by oxidative mechanisms. *Current Opinion in Lipidology*, **1999**, 10, 161-5	4.4	102
521	Assay and properties of a mitochondrial 25-hydroxylase active on vitamine D3.. *Journal of Biological Chemistry*, **1978**, 253, 842-849	5.4	102
520	Plasma 24S-hydroxycholesterol and caudate MRI in pre-manifest and early Huntington disease. *Brain*, **2008**, 131, 2851-9	11.2	101
519	Assay and properties of a mitochondrial 25-hydroxylase active on vitamine D3. *Journal of Biological Chemistry*, **1978**, 253, 842-9	5.4	101
518	Individual Bile Acids in Portal Venous and Systemic Blood Serum of Fasting Man. *Gastroenterology*, **1977**, 73, 1377-1382	13.3	100
517	High doses of simvastatin, pravastatin, and cholesterol reduce brain cholesterol synthesis in guinea pigs. *Steroids*, **2004**, 69, 431-8	2.8	99
516	Novel route for elimination of brain oxysterols across the blood-brain barrier: conversion into 7alpha-hydroxy-3-oxo-4-cholestenoic acid. *Journal of Lipid Research*, **2007**, 48, 944-51	6.3	98
515	From brain to bile. Evidence that conjugation and omega-hydroxylation are important for elimination of 24S-hydroxycholesterol (cerebrosterol) in humans. *Journal of Biological Chemistry*, **2001**, 276, 37004-10	5.4	98
514	Plasma levels of 24S-hydroxycholesterol reflect the balance between cerebral production and hepatic metabolism and are inversely related to body surface. *Journal of Lipid Research*, **2000**, 41, 840-5	6.3	95

513	Crystal structures of substrate-bound and substrate-free cytochrome P450 46A1, the principal cholesterol hydroxylase in the brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9546-51	11.5	94
512	Changes in human plasma levels of the brain specific oxysterol 24S-hydroxycholesterol during progression of multiple sclerosis. *Neuroscience Letters*, **2002**, 331, 163-6	3.3	94
511	Serum cholesterol determination by mass fragmentography. *Clinica Chimica Acta*, **1974**, 54, 185-93	6.2	94
510	The plasma level of 7 alpha-hydroxy-4-cholesten-3-one reflects the activity of hepatic cholesterol 7 alpha-hydroxylase in man. *FEBS Letters*, **1991**, 284, 216-8	3.8	93
509	Demonstration of 26-hydroxylation of C27-steroids in human skin fibroblasts, and a deficiency of this activity in cerebrotendinous xanthomatosis. *Journal of Clinical Investigation*, **1986**, 78, 729-35	15.9	93
508	Mechanism of microbial transformation of cholesterol into coprostanol. *FEBS Journal*, **1971**, 21, 428-32		90
507	Antioxidant treatment inhibits the development of intimal thickening after balloon injury of the aorta in hypercholesterolemic rabbits. *Journal of Clinical Investigation*, **1993**, 91, 1282-8	15.9	90
506	On the possible use of the serum level of 7 alpha-hydroxycholesterol as a marker for increased activity of the cholesterol 7 alpha-hydroxylase in humans. *Journal of Lipid Research*, **1987**, 28, 889-894	6.3	88
505	Diagnostic use of cerebral and extracerebral oxysterols. *Clinical Chemistry and Laboratory Medicine*, **2004**, 42, 186-91	5.9	87
504	Activities of recombinant human cytochrome P450c27 (CYP27) which produce intermediates of alternative bile acid biosynthetic pathways. *Journal of Biological Chemistry*, **1998**, 273, 18153-60	5.4	86
503	Hepatic 7□hydroxylation of cholesterol in ascorbate-deficient and ascorbate-supplemented guinea pigs. *Journal of Lipid Research*, **1976**, 17, 360-365	6.3	86
502	Marked accumulation of 27-hydroxycholesterol in SPG5 patients with hereditary spastic paresis. *Journal of Lipid Research*, **2010**, 51, 819-23	6.3	85
501	Biosynthesis of bile acids in man. Hydroxylation of the C27-steroid side chain. *Journal of Clinical Investigation*, **1975**, 55, 478-86	15.9	85
500	Expression, purification, and enzymatic properties of recombinant human cytochrome P450c27 (CYP27). *Archives of Biochemistry and Biophysics*, **1997**, 343, 123-30	4.1	84
499	The bile acid synthetic gene 3beta-hydroxy-Delta(5)-C(27)-steroid oxidoreductase is mutated in progressive intrahepatic cholestasis. *Journal of Clinical Investigation*, **2000**, 106, 1175-84	15.9	84
498	Are side-chain oxidized oxysterols regulators also in vivo?. *Journal of Lipid Research*, **2009**, 50 Suppl, S213-8	6.3	83
497	On the possible use of the serum level of 7 alpha-hydroxycholesterol as a marker for increased activity of the cholesterol 7 alpha-hydroxylase in humans. *Journal of Lipid Research*, **1987**, 28, 889-94	6.3	83
496	Cholesterol biosynthesis pathway is disturbed in YAC128 mice and is modulated by huntingtin mutation. *Human Molecular Genetics*, **2007**, 16, 2187-98	5.6	82

495	Postprandial serum bile acids in healthy man. Evidence for differences in absorptive pattern between individual bile acids. *Gut*, **1977**, 18, 606-9	19.2	81
494	Elimination of cholesterol as cholestenoic acid in human lung by sterol 27-hydroxylase: evidence that most of this steroid in the circulation is of pulmonary origin. *Journal of Lipid Research*, **1999**, 40, 1417-1425	6.3	81
493	Regulation of alpha- and beta-secretase activity by oxysterols: cerebrosterol stimulates processing of APP via the alpha-secretase pathway. *Biochemical and Biophysical Research Communications*, **2007**, 359, 46-50	3.4	80
492	Bile acid synthesis in man: assay of hepatic microsomal cholesterol 7 alpha-hydroxylase activity by isotope dilution-mass spectrometry.. *Journal of Lipid Research*, **1986**, 27, 82-88	6.3	77
491	Cholesterol-24S-hydroxylase (CYP46A1) is specifically expressed in neurons of the neural retina. *Current Eye Research*, **2007**, 32, 361-6	2.9	75
490	Toward absolute methods in clinical chemistry: application of mass fragmentography to high-accuracy analyses.. *Clinical Chemistry*, **1976**, 22, 1789-1801	5.5	75
489	Sterol binding by OSBP-related protein 1L regulates late endosome motility and function. *Cellular and Molecular Life Sciences*, **2011**, 68, 537-51	10.3	74
488	Feedback regulation of bile acid synthesis in primary human hepatocytes: Evidence that CDCA is the strongest inhibitor. *Hepatology*, **2003**, 38, 930-938	11.2	74
487	Marked accumulation of 27-hydroxycholesterol in the brains of Alzheimer patients with the Swedish APP 670/671 mutation. *Journal of Lipid Research*, **2011**, 52, 1004-10	6.3	73
486	7-Hydroxylation of Exogenous and Endogenous Cholesterol in Rat-Liver Microsomes. *FEBS Journal* , **1975**, 53, 63-70		72
485	Elimination of cholesterol as cholestenoic acid in human lung by sterol 27-hydroxylase: evidence that most of this steroid in the circulation is of pulmonary origin. *Journal of Lipid Research*, **1999**, 40, 1417-25	6.3	72
484	Regulation of sterol 12alpha-hydroxylase and cholic acid biosynthesis in the rat. *Gastroenterology*, **2000**, 118, 599-607	13.3	71
483	Properties of a reconstituted vitamin D3 25-hydroxylase from rat liver mitochondria. *Journal of Biological Chemistry*, **1980**, 255, 5244-9	5.4	71
482	Localization of sterol 27-hydroxylase immuno-reactivity in human atherosclerotic plaques. *Lipids and Lipid Metabolism*, **1997**, 1344, 278-85		70
481	Cholestenoic acids regulate motor neuron survival via liver X receptors. *Journal of Clinical Investigation*, **2014**, 124, 4829-42	15.9	69
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478	Properties of a reconstituted vitamin D3 25-hydroxylase from rat liver mitochondria.. *Journal of Biological Chemistry*, **1980**, 255, 5244-5249	5.4	69

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475	Are the CSF levels of 24S-hydroxycholesterol a sensitive biomarker for mild cognitive impairment?. *Neuroscience Letters*, **2006**, 397, 83-7	3.3	68
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473	Comparison of two isotope dilution/mass spectrometric methods for determination of total serum cholesterol.. *Clinical Chemistry*, **1982**, 28, 5-8	5.5	68
472	Bile acid synthesis in man: assay of hepatic microsomal cholesterol 7 alpha-hydroxylase activity by isotope dilution-mass spectrometry. *Journal of Lipid Research*, **1986**, 27, 82-8	6.3	68
471	Mitochondrial w-Hydroxylation of Cholesterol Side Chain. *Journal of Biological Chemistry*, **1974**, 249, 2528-2535	5.4	68
470	Simple diagnosis of the Zellweger syndrome by gas-liquid chromatography of dimethylacetals.. *Journal of Lipid Research*, **1988**, 27, 786-791	6.3	68
469	Oxysterols and Parkinson? disease: evidence that levels of 24S-hydroxycholesterol in cerebrospinal fluid correlates with the duration of the disease. *Neuroscience Letters*, **2013**, 555, 102-5	3.3	67
468	Hepatic 7alpha-hydroxylation of cholesterol in ascorbate-deficient and ascorbate-supplemented guinea pigs. *Journal of Lipid Research*, **1976**, 17, 360-5	6.3	67
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466	Regulation of hepatic cholesterol metabolism in humans: stimulatory effects of cholestyramine on HMG-CoA reductase activity and low density lipoprotein receptor expression in gallstone patients.. *Journal of Lipid Research*, **1990**, 31, 2219-2226	6.3	67
465	Mechanism of accumulation of cholesterol and cholestanol in tendons and the role of sterol 27-hydroxylase (CYP27A1). *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 1129-35	9.4	66
464	Determination of serum levels of unesterified lathosterol by isotope dilution-mass spectrometry. *Scandinavian Journal of Clinical and Laboratory Investigation*, **1989**, 49, 165-71	2	66
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462	Do oxysterols control cholesterol homeostasis?. *Journal of Clinical Investigation*, **2002**, 110, 725-30	15.9	66
461	Oxidation of Fatty Acids. *Journal of Biological Chemistry*, **1971**, 246, 7411-7416	5.4	66
460	Cholestenoic Acid is an important elimination product of cholesterol in the retina: comparison of retinal cholesterol metabolism with that in the brain **2011**, 52, 594-603		65

459	Combined gas chromatographic/mass spectrometric analysis of cholesterol precursors and plant sterols in cultured cells. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2009**, 877, 2081-6	3.2	65
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455	Ca2+ channel blockers verapamil and nifedipine inhibit apoptosis induced by 25-hydroxycholesterol in human aortic smooth muscle cells. *Journal of Lipid Research*, **1997**, 38, 2049-61	6.3	65
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453	24-, 25- and 27-hydroxylation of cholesterol by a purified preparation of 27-hydroxylase from pig liver. *Lipids and Lipid Metabolism*, **1993**, 1166, 177-82		64
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451	Effect of sitosterol on the rate-limiting enzymes in cholesterol synthesis and degradation. *Lipids*, **1989**, 24, 9-12	1.6	63
450	On the mechanism of the enzymatic conversn of cholest-5-ene-3-beta, 7-alpha-diol into 7-alpha-hydroxycholest-4-en-3-one. *FEBS Journal*, **1969**, 8, 337-44		63
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445	Defective peroxisomal cleavage of the C27-steroid side chain in the cerebro-hepato-renal syndrome of Zellweger. *Journal of Clinical Investigation*, **1985**, 75, 427-35	15.9	62
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437	Evidence that the major oxysterols in human circulation originate from distinct pools of cholesterol: a stable isotope study. *Journal of Lipid Research*, **2001**, 42, 70-8	6.3	61
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435	Role of the 26-hydroxylase in the biosynthesis of bile acids in the normal state and in cerebrotendinous xanthomatosis. An in vivo study. *Journal of Clinical Investigation*, **1983**, 71, 142-8	15.9	59
434	Five decades with oxysterols. *Biochimie*, **2013**, 95, 448-54	4.6	58
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427	Enzymatic conversion of a delta-4-3-ketosteroid into a 3-alpha-hydroxy-5-beta steroid: mechanism and stereochemistry of hydrogen transfer from NADPH. Bile acids and steroids 190. *FEBS Journal*, **1967**, 2, 503-7		56
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