David W Russell

List of Publications by Year in Descending Order

130 papers	24,783 citations	76 h-index	135 g-index
135 ext. papers	26,815 ext. citations	14.3 avg, IF	6.79 L-index

#	Paper	IF	Citations
130	Thoracoscopic Anterior Instrumentation and Fusion as a Treatment for Adolescent Idiopathic Scoliosis: A Systematic Review of the Literature. *Spine Deformity*, **2018**, 6, 384-390	2	15
129	Lucky, times ten: A career in Texas science. *Journal of Biological Chemistry*, **2018**, 293, 18804-18827	5.4	4
128	Low Testosterone Levels Result in Decreased Periurethral Vascularity via an Androgen Receptor-mediated Process: Pilot Study in Urethral Stricture Tissue. *Urology*, **2017**, 105, 175-180	1.6	13
127	Oxysterol Restraint of Cholesterol Synthesis Prevents AIM2 Inflammasome Activation. *Cell*, **2017**, 171, 1057-1071.e11	56.2	122
126	Reprint of "Steroid 5‐reductase 2 deficiency". *Journal of Steroid Biochemistry and Molecular Biology*, **2017**, 165, 95-100	5.1	7
125	Steroid 5‐reductase 2 deficiency. *Journal of Steroid Biochemistry and Molecular Biology*, **2016**, 163, 206-11	5.1	49
124	Biomarkers of NAFLD progression: a lipidomics approach to an epidemic. *Journal of Lipid Research*, **2015**, 56, 722-736	6.3	193
123	Genetic, anatomic, and clinical determinants of human serum sterol and vitamin D levels. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4006-14	11.5	51
122	Inflammation. 25-Hydroxycholesterol suppresses interleukin-1-driven inflammation downstream of type I interferon. *Science*, **2014**, 345, 679-84	33.3	278
121	The role of palliative colorectal stents in gynaecologic malignancy. *Gynecologic Oncology*, **2014**, 134, 566-9	4.9	6
120	Steroid 5‐Reductase 2 Deficiency **2014**, 199-214		2
119	A suppressor screen in Mecp2 mutant mice implicates cholesterol metabolism in Rett syndrome. *Nature Genetics*, **2013**, 45, 1013-20	36.3	143
118	Genetic defects in bile acid conjugation cause fat-soluble vitamin deficiency. *Gastroenterology*, **2013**, 144, 945-955.e6; quiz e14-5	13.3	76
117	25-Hydroxycholesterol activates the integrated stress response to reprogram transcription and translation in macrophages. *Journal of Biological Chemistry*, **2013**, 288, 35812-23	5.4	47
116	Christian Raetz: scientist and friend extraordinaire. *Annual Review of Biochemistry*, **2013**, 82, 1-24	29.1	8
115	Analysis of inflammatory and lipid metabolic networks across RAW264.7 and thioglycolate-elicited macrophages. *Journal of Lipid Research*, **2013**, 54, 2525-42	6.3	32
114	Regulated accumulation of desmosterol integrates macrophage lipid metabolism and inflammatory responses. *Cell*, **2012**, 151, 138-52	56.2	373

113	Oxysterol gradient generation by lymphoid stromal cells guides activated B cell movement during humoral responses. *Immunity*, **2012**, 37, 535-48	32.3	136
112	Mutation of the CYP2R1 vitamin D 25-hydroxylase in a Saudi Arabian family with severe vitamin D deficiency. *Journal of Clinical Endocrinology and Metabolism*, **2012**, 97, E2022-5	5.6	60
111	Differential diagnosis in patients with suspected bile acid synthesis defects. *World Journal of Gastroenterology*, **2012**, 18, 1067-76	5.6	32
110	Delineation of biochemical, molecular, and physiological changes accompanying bile acid pool size restoration in Cyp7a1(-/-) mice fed low levels of cholic acid. *American Journal of Physiology - Renal Physiology*, **2012**, 303, G263-74	5.1	14
109	A comprehensive method for extraction and quantitative analysis of sterols and secosteroids from human plasma. *Journal of Lipid Research*, **2012**, 53, 1399-409	6.3	142
108	Detecting oxysterols in the human circulation. *Nature Immunology*, **2011**, 12, 577; author reply 577-8	19.1	9
107	Mass-Spec Identification of Human Genetic Disease. *FASEB Journal*, **2011**, 25, 938.4	0.9	
106	A mouse macrophage lipidome. *Journal of Biological Chemistry*, **2010**, 285, 39976-85	5.4	210
105	Subcellular organelle lipidomics in TLR-4-activated macrophages. *Journal of Lipid Research*, **2010**, 51, 2785-97	6.3	156
104	Lipidomics reveals a remarkable diversity of lipids in human plasma. *Journal of Lipid Research*, **2010**, 51, 3299-305	6.3	873
103	SRD5A3: A surprising role in glycosylation. *Cell*, **2010**, 142, 196-8	56.2	37
102	Oxysterols: Cholesterol Metabolites of Diverse Function in Mice and Men. *FASEB Journal*, **2010**, 24, 77.1	0.9	
101	CYP7B1: one cytochrome P450, two human genetic diseases, and multiple physiological functions. *Journal of Biological Chemistry*, **2009**, 284, 28485-9	5.4	73
100	Reduction of cholesterol synthesis in the mouse brain does not affect amyloid formation in Alzheimer's disease, but does extend lifespan. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 3502-6	11.5	58
99	Fifty years of advances in bile acid synthesis and metabolism. *Journal of Lipid Research*, **2009**, 50 Suppl, S120-5	6.3	228
98	25-Hydroxycholesterol secreted by macrophages in response to Toll-like receptor activation suppresses immunoglobulin A production. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 16764-9	11.5	229
97	Cholesterol 24-hydroxylase: an enzyme of cholesterol turnover in the brain. *Annual Review of Biochemistry*, **2009**, 78, 1017-40	29.1	202
96	Biphasic requirement for geranylgeraniol in hippocampal long-term potentiation. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11394-9	11.5	57

95	Neuronal expression and subcellular localization of cholesterol 24-hydroxylase in the mouse brain. *Journal of Comparative Neurology*, **2008**, 507, 1676-93	3.4	129
94	LMSD: LIPID MAPS structure database. *Nucleic Acids Research*, **2007**, 35, D527-32	20.1	709
93	Analysis of HSD3B7 knockout mice reveals that a 3alpha-hydroxyl stereochemistry is required for bile acid function. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 11526-33	11.5	30
92	Enzymatic reduction of oxysterols impairs LXR signaling in cultured cells and the livers of mice. *Cell Metabolism*, **2007**, 5, 73-9	24.6	245
91	Extraction and analysis of sterols in biological matrices by high performance liquid chromatography electrospray ionization mass spectrometry. *Methods in Enzymology*, **2007**, 432, 145-70	1.7	111
90	Brain cholesterol turnover required for geranylgeraniol production and learning in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 3869-74	11.5	193
89	Mutation of beta-glucosidase 2 causes glycolipid storage disease and impaired male fertility. *Journal of Clinical Investigation*, **2006**, 116, 2985-94	15.9	180
88	Brain cholesterol metabolism is important for learning. *FASEB Journal*, **2006**, 20, A85	0.9	
87	A comprehensive classification system for lipids. *Journal of Lipid Research*, **2005**, 46, 839-61	6.3	1060
86	A comprehensive classification system for lipids. *European Journal of Lipid Science and Technology*, **2005**, 107, 337-364	3	71
85	The LIPID MAPS Approach to Lipidomics **2005**, 1-16		11
84	Mammalian wax biosynthesis. I. Identification of two fatty acyl-Coenzyme A reductases with different substrate specificities and tissue distributions. *Journal of Biological Chemistry*, **2004**, 279, 37789-97	5.4	170
83	Mammalian wax biosynthesis. II. Expression cloning of wax synthase cDNAs encoding a member of the acyltransferase enzyme family. *Journal of Biological Chemistry*, **2004**, 279, 37798-807	5.4	95
82	Genetic evidence that the human CYP2R1 enzyme is a key vitamin D 25-hydroxylase. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 7711-5	11.5	542
81	Dihydrotestosterone and the prostate: the scientific rationale for 5alpha-reductase inhibitors in the treatment of benign prostatic hyperplasia. *Journal of Urology*, **2004**, 172, 1399-403	2.5	195
80	De-orphanization of cytochrome P450 2R1: a microsomal vitamin D 25-hydroxilase. *Journal of Biological Chemistry*, **2003**, 278, 38084-93	5.4	277
79	Familial hyperestrogenism in both sexes: clinical, hormonal, and molecular studies of two siblings. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 3027-34	5.6	48
78	Male Pseudohermaphroditism Due to 5Reductase 2 Deficiency: Outcome of a Brazilian Cohort **2003**, 13, 201-204		22

77	Molecular genetics of 3beta-hydroxy-Delta5-C27-steroid oxidoreductase deficiency in 16 patients with loss of bile acid synthesis and liver disease. *Journal of Clinical Endocrinology and Metabolism*, **2003**, 88, 1833-41	5.6	83
76	The enzymes, regulation, and genetics of bile acid synthesis. *Annual Review of Biochemistry*, **2003**, 72, 137-74	29.1	1318
75	Knockout of the cholesterol 24-hydroxylase gene in mice reveals a brain-specific mechanism of cholesterol turnover. *Journal of Biological Chemistry*, **2003**, 278, 22980-8	5.4	285
74	Quantitation of two pathways for cholesterol excretion from the brain in normal mice and mice with neurodegeneration. *Journal of Lipid Research*, **2003**, 44, 1780-9	6.3	120
73	Expression of the androgen receptor and 5 alpha-reductase type 2 in the developing human fetal penis and urethra. *Cell and Tissue Research*, **2002**, 307, 145-53	4.2	86
72	Human osteoblast-like cells express predominantly steroid 5alpha-reductase type 1. *Journal of Clinical Endocrinology and Metabolism*, **2002**, 87, 5401-7	5.6	55
71	Clinical importance of the cytochromes P450. *Lancet, The*, **2002**, 360, 1155-62	40	1050
70	Loss of nuclear receptor SHP impairs but does not eliminate negative feedback regulation of bile acid synthesis. *Developmental Cell*, **2002**, 2, 713-20	10.2	285
69	Cholic acid mediates negative feedback regulation of bile acid synthesis in mice. *Journal of Clinical Investigation*, **2002**, 110, 1191-1200	15.9	170
68	Cholic acid mediates negative feedback regulation of bile acid synthesis in mice. *Journal of Clinical Investigation*, **2002**, 110, 1191-200	15.9	106
67	The hypocholesterolemic agent LY295427 reverses suppression of sterol regulatory element-binding protein processing mediated by oxysterols. *Journal of Biological Chemistry*, **2001**, 276, 45408-16	5.4	48
66	Unexpected virilization in male mice lacking steroid 5 alpha-reductase enzymes. *Endocrinology*, **2001**, 142, 4652-62	4.8	104
65	On the turnover of brain cholesterol in patients with Alzheimer's disease. Abnormal induction of the cholesterol-catabolic enzyme CYP46 in glial cells. *Neuroscience Letters*, **2001**, 314, 45-8	3.3	160
64	Genetic analysis of intestinal cholesterol absorption in inbred mice. *Journal of Lipid Research*, **2001**, 42, 1801-1811	6.3	35
63	Genetic analysis of cholesterol accumulation in inbred mice. *Journal of Lipid Research*, **2001**, 42, 1812-1819	6.3	22
62	Alternate pathways of bile acid synthesis in the cholesterol 7α-hydroxylase knockout mouse are not upregulated by either cholesterol or cholestyramine feeding. *Journal of Lipid Research*, **2001**, 42, 1594-1603	6.3	106
61	Expression cloning of an oxysterol 7alpha-hydroxylase selective for 24-hydroxycholesterol. *Journal of Biological Chemistry*, **2000**, 275, 16543-9	5.4	136
60	Disruption of the sterol 27-hydroxylase gene in mice results in hepatomegaly and hypertriglyceridemia. Reversal by cholic acid feeding. *Journal of Biological Chemistry*, **2000**, 275, 39685-92	5.4	158

59	Disruption of the oxysterol 7alpha-hydroxylase gene in mice. *Journal of Biological Chemistry*, **2000**, 275, 16536-42	5.4	155
58	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
57	17Beta-hydroxysteroid dehydrogenase 3 deficiency in women. *Journal of Clinical Endocrinology and Metabolism*, **1999**, 84, 802-4	5.6	30
56	Nuclear orphan receptors control cholesterol catabolism. *Cell*, **1999**, 97, 539-42	56.2	184
55	5 REDUCTASE TYPE 2 MUTATIONS ARE PRESENT IN SOME BOYS WITH ISOLATED HYPOSPADIAS. *Journal of Urology*, **1999**, 162, 1142-1145	2.5	78
54	The parturition defect in steroid 5alpha-reductase type 1 knockout mice is due to impaired cervical ripening. *Molecular Endocrinology*, **1999**, 13, 981-92		178
53	cDNA cloning of mouse and human cholesterol 25-hydroxylases, polytopic membrane proteins that synthesize a potent oxysterol regulator of lipid metabolism. *Journal of Biological Chemistry*, **1998**, 273, 34316-27	5.4	242
52	Marked reduction in bile acid synthesis in cholesterol 7hydroxylase-deficient mice does not lead to diminished tissue cholesterol turnover or to hypercholesterolemia. *Journal of Lipid Research*, **1998**, 39, 1833-1843	6.3	199
51	Two 7 alpha-hydroxylase enzymes in bile acid biosynthesis. *Current Opinion in Lipidology*, **1998**, 9, 113-8	4.4	89
50	Fetal death in mice lacking 5alpha-reductase type 1 caused by estrogen excess. *Molecular Endocrinology*, **1997**, 11, 917-27		119
49	Expression cloning and characterization of oxidative 17beta- and 3alpha-hydroxysteroid dehydrogenases from rat and human prostate. *Journal of Biological Chemistry*, **1997**, 272, 15959-66	5.4	190
48	Identification and characterization of a mouse oxysterol 7alpha-hydroxylase cDNA. *Journal of Biological Chemistry*, **1997**, 272, 23995-4001	5.4	135
47	Expression and regulation of steroid 5 alpha-reductase in the genital tubercle of the fetal rat. *Developmental Dynamics*, **1997**, 209, 117-26	2.9	20
46	Increased Expression of Early Growth Response-1 Messenger Ribonucleic Acid in Prostatic Adenocarcinoma. *Journal of Urology*, **1996**, 155, 975-981	2.5	52
45	17beta-Hydroxysteroid dehydrogenase 3 deficiency. *Trends in Endocrinology and Metabolism*, **1996**, 7, 121-6	8.8	55
44	Male pseudohermaphroditism due to steroid 5alpha-reductase 2 deficiency. Diagnosis, psychological evaluation, and management. *Medicine (United States)*, **1996**, 75, 64-76	1.8	94
43	Disruption of cholesterol 7alpha-hydroxylase gene in mice. I. Postnatal lethality reversed by bile acid and vitamin supplementation. *Journal of Biological Chemistry*, **1996**, 271, 18017-23	5.4	183
42	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

41	Male pseudohermaphroditism caused by mutations of testicular 17 beta-hydroxysteroid dehydrogenase 3. *Nature Genetics*, **1994**, 7, 34-9	36.3	482
40	Steroid 5 alpha-reductase: two genes/two enzymes. *Annual Review of Biochemistry*, **1994**, 63, 25-61	29.1	960
39	Natural mutagenesis study of the human steroid 5 alpha-reductase 2 isozyme. *Biochemistry*, **1994**, 33, 1265-70	3.2	141
38	Expression and regulation of steroid 5 alpha-reductase 2 in prostate disease. *Journal of Urology*, **1994**, 152, 433-7	2.5	72
37	Cell type specific expression of steroid 5 alpha-reductase 2. *Journal of Urology*, **1994**, 152, 438-42	2.5	83
36	The molecular genetics of steroid 5 alpha-reductases. *Endocrine Reviews*, **1994**, 49, 275-84		39
35	Steroid 5 alpha-reductase 2 deficiency. *Endocrine Reviews*, **1993**, 14, 577-93	27.2	432
34	Brief report: the molecular basis of steroid 5 alpha-reductase deficiency in a large Dominican kindred. *New England Journal of Medicine*, **1992**, 327, 1216-9	59.2	109
33	Cloning of the human cholesterol 7 alpha-hydroxylase gene (CYP7) and localization to chromosome 8q11-q12. *Genomics*, **1992**, 14, 153-61	4.3	91
32	Expression cloning of a diphtheria toxin receptor: identity with a heparin-binding EGF-like growth factor precursor. *Cell*, **1992**, 69, 1051-61	56.2	500
31	Bile acid biosynthesis. *Biochemistry*, **1992**, 31, 4737-49	3.2	664
30	The localization, partial purification and regulation of pea plastid HMG-CoA reductase. *Biochemical and Biophysical Research Communications*, **1992**, 184, 530-7	3.4	8
29	Deletion of steroid 5 alpha-reductase 2 gene in male pseudohermaphroditism. *Nature*, **1991**, 354, 159-61	50.4	589
28	Characterization and chromosomal mapping of a human steroid 5 alpha-reductase gene and pseudogene and mapping of the mouse homologue. *Genomics*, **1991**, 11, 1102-12	4.3	133
27	cDNA cloning and expression of the peptide-binding beta subunit of rat p21ras farnesyltransferase, the counterpart of yeast DPR1/RAM1. *Cell*, **1991**, 66, 327-34	56.2	184
26	Structure of the rat gene encoding cholesterol 7 alpha-hydroxylase. *Biochemistry*, **1990**, 29, 7781-5	3.2	59
25	TaqI polymorphism in the LDL receptor gene and a TaqI 1.5-kb band associated with familial hypercholesterolemia. *Human Genetics*, **1988**, 80, 1-5	6.3	17
24	Protein domains of the low density lipoprotein receptor. *Acta Medica Scandinavica*, **1987**, 715, 39-44		2

23	TaqI polymorphism in the human LDL receptor gene. *Nucleic Acids Research*, **1987**, 15, 7659	20.1	10
22	AvaII polymorphism in the human LDL receptor gene. *Nucleic Acids Research*, **1987**, 15, 379	20.1	65
21	Duplication of seven exons in LDL receptor gene caused by Alu-Alu recombination in a subject with familial hypercholesterolemia. *Cell*, **1987**, 48, 827-35	56.2	290
20	42 bp element from LDL receptor gene confers end-product repression by sterols when inserted into viral TK promoter. *Cell*, **1987**, 48, 1061-9	56.2	219
19	Acid-dependent ligand dissociation and recycling of LDL receptor mediated by growth factor homology region. *Nature*, **1987**, 326, 760-5	50.4	364
18	The J.D. mutation in familial hypercholesterolemia: amino acid substitution in cytoplasmic domain impedes internalization of LDL receptors. *Cell*, **1986**, 45, 15-24	56.2	346
17	Molecular cloning of bovine LDL receptor cDNAs. *Methods in Enzymology*, **1986**, 128, 895-909	1.7	1
16	[4] 3-Hydroxy-3-methylglutaryl-CoA reductases from pea seedlings. *Methods in Enzymology*, **1985**, 110, 26-40	1.7	23
15	Receptor-mediated endocytosis: concepts emerging from the LDL receptor system. *Annual Review of Cell Biology*, **1985**, 1, 1-39		1373
14	Internalization-defective LDL receptors produced by genes with nonsense and frameshift mutations that truncate the cytoplasmic domain. *Cell*, **1985**, 41, 735-43	56.2	287
13	Nucleotide sequence of 3-hydroxy-3-methyl-glutaryl coenzyme A reductase, a glycoprotein of endoplasmic reticulum. *Nature*, **1984**, 308, 613-7	50.4	256
12	Domain map of the LDL receptor: sequence homology with the epidermal growth factor precursor. *Cell*, **1984**, 37, 577-85	56.2	358
11	The human LDL receptor: a cysteine-rich protein with multiple Alu sequences in its mRNA. *Cell*, **1984**, 39, 27-38	56.2	1347
10	DNA sequences of two yeast promoter-up mutants. *Nature*, **1983**, 304, 652-4	50.4	96
9	Plastid 3-hydroxy-3-methylglutaryl coenzyme A reductase has distinctive kinetic and regulatory features: properties of the enzyme and positive phytochrome control of activity in pea seedlings. *Archives of Biochemistry and Biophysics*, **1982**, 216, 631-8	4.1	54
8	Regulation of cytosolic HMG-CoA reductase activity in pea seedlings: contrasting responses to different hormones, and hormone-product interaction, suggest hormonal modulation of activity. *Biochemical and Biophysical Research Communications*, **1982**, 104, 1537-43	3.4	45
7	Mechanism of action of the wheat germ ribosome dissociation factor: interaction with the 60 S subunit. *Archives of Biochemistry and Biophysics*, **1980**, 201, 518-26	4.1	43
6	Purification of eukaryotic cytoplasmic elongation factor 2 and organellar elongation factor G by an affinity binding procedure. *Analytical Biochemistry*, **1979**, 99, 434-40	3.1	13

5	A rapid and sensitive assay for the detection of eukaryotic ribosome dissociation factors. *Analytical Biochemistry*, **1979**, 93, 238-43	3.1	4
4	Regulation of microsomal 3-hydroxy-3-methylglutaryl coenzyme A reductase from pea seedlings: rapid posttranslational phytochrome-mediated decrease in activity and in vivo regulation by isoprenoid products. *Archives of Biochemistry and Biophysics*, **1979**, 198, 323-34	4.1	50
3	Properties of microsomal 3-hydroxy-3-methylglutaryl coenzyme A reductase from Pisum sativum seedlings. *Archives of Biochemistry and Biophysics*, **1975**, 167, 723-9	4.1	53
2	Subcellular localization of 3-hydroxy-3-methylglutaryl coenzyme A reductase in Pisum sativum seedlings. *Archives of Biochemistry and Biophysics*, **1975**, 167, 730-7	4.1	55
1	Unexpected Virilization in Male Mice Lacking Steroid 5Reductase Enzymes		39