

# Carolyn L Cummins

## List of Publications by Year in descending order

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77  
papers

6,630  
citations

81900

39  
h-index

66911

78  
g-index

84  
all docs

84  
docs citations

84  
times ranked

8867  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibroblast growth factor 15 functions as an enterohepatic signal to regulate bile acid homeostasis. <i>Cell Metabolism</i> , 2005, 2, 217-225.	16.2	1,514
2	Identification of Ligands for DAF-12 that Govern Dauer Formation and Reproduction in <i>C. elegans</i> . <i>Cell</i> , 2006, 124, 1209-1223.	28.9	414
3	27-Hydroxycholesterol is an endogenous SERM that inhibits the cardiovascular effects of estrogen. <i>Nature Medicine</i> , 2007, 13, 1185-1192.	30.7	351
4	High-Throughput Real-Time Quantitative Reverse Transcription PCR. <i>Current Protocols in Molecular Biology</i> , 2006, 73, Unit 15.8.	2.9	298
5	Unmasking the Dynamic Interplay between Intestinal P-Glycoprotein and CYP3A4. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 300, 1036-1045.	2.5	287
6	Mapping the Cellular Response to Small Molecules Using Chemogenomic Fitness Signatures. <i>Science</i> , 2014, 344, 208-211.	12.6	217
7	The drug efflux "metabolism alliance: biochemical aspects. <i>Advanced Drug Delivery Reviews</i> , 2001, 50, S3-S11.	13.7	209
8	A bile acid-like steroid modulates <i>Caenorhabditis elegans</i> lifespan through nuclear receptor signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5014-5019.	7.1	206
9	Hormonal Control of <i>C. elegans</i> Dauer Formation and Life Span by a Rieske-like Oxygenase. <i>Developmental Cell</i> , 2006, 10, 473-482.	7.0	177
10	In Vivo Modulation of Intestinal CYP3A Metabolism by P-Glycoprotein: Studies Using the Rat Single-Pass Intestinal Perfusion Model. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 305, 306-314.	2.5	151
11	Liver X receptors regulate adrenal cholesterol balance. <i>Journal of Clinical Investigation</i> , 2006, 116, 1902-1912.	8.2	147
12	Multilayered Control of Alternative Splicing Regulatory Networks by Transcription Factors. <i>Molecular Cell</i> , 2017, 65, 539-553.e7.	9.7	143
13	Sex-related differences in the clearance of cytochrome P450 3A4 substrates may be caused by P-glycoprotein. <i>Clinical Pharmacology and Therapeutics</i> , 2002, 72, 474-489.	4.7	141
14	Liver Receptor Homolog-1 Regulates Bile Acid Homeostasis but Is Not Essential for Feedback Regulation of Bile Acid Synthesis. <i>Molecular Endocrinology</i> , 2008, 22, 1345-1356.	3.7	130
15	Minireview: New Molecular Mediators of Glucocorticoid Receptor Activity in Metabolic Tissues. <i>Molecular Endocrinology</i> , 2014, 28, 999-1011.	3.7	106
16	LXR <sup>2</sup> is required for glucocorticoid-induced hyperglycemia and hepatosteatosis in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 431-441.	8.2	100
17	CYP3A4-Transfected Caco-2 Cells as a Tool for Understanding Biochemical Absorption Barriers: Studies with Sirolimus and Midazolam. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 308, 143-155.	2.5	96
18	The small heterodimer partner is a gonadal gatekeeper of sexual maturation in male mice. <i>Genes and Development</i> , 2007, 21, 303-315.	5.9	81

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19	Characterizing the expression of CYP3A4 and efflux transporters (P-gp, MRP1, and MRP2) in CYP3A4-transfected Caco-2 cells after induction with sodium butyrate and the phorbol ester 12-O-tetradecanoylphorbol-13-acetate. <i>Pharmaceutical Research</i> , 2001, 18, 1102-1109.	3.5	80
20	Glucocorticoids Regulate the Metabolic Hormone FGF21 in a Feed-Forward Loop. <i>Molecular Endocrinology</i> , 2015, 29, 213-223.	3.7	78
21	Glucocorticoids and Metabolic Control. <i>Handbook of Experimental Pharmacology</i> , 2015, 233, 73-93.	1.8	74
22	Inhibition of Cytochrome P450 3A4 by Extracts and Kavalactones of Piper methysticum (Kava-Kava). <i>Planta Medica</i> , 2002, 68, 1055-1058.	1.3	70
23	Regulation of P-glycoprotein by orphan nuclear receptors in human brain microvessel endothelial cells. <i>Journal of Neurochemistry</i> , 2011, 118, 163-175.	3.9	70
24	1 $\alpha$ ,25-Dihydroxyvitamin D <sub>3</sub> Up-Regulates P-Glycoprotein via the Vitamin D Receptor and Not Farnesoid X Receptor in Both <i>fxr</i> <sup>-/-</sup> and <i>fxr</i> <sup>+/+</sup> Mice and Increased Renal and Brain Efflux of Digoxin in Mice In Vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 337, 846-859.	2.5	70
25	Vitamin D Receptor Activation Down-regulates the Small Heterodimer Partner and Increases CYP7A1 to Lower Cholesterol. <i>Gastroenterology</i> , 2014, 146, 1048-1059.e7.	1.3	69
26	In Vivo Imaging of Farnesoid X Receptor Activity Reveals the Ileum as the Primary Bile Acid Signaling Tissue. <i>Molecular Endocrinology</i> , 2007, 21, 1312-1323.	3.7	62
27	Liver X Receptor Modulates Diabetic Retinopathy Outcome in a Mouse Model of Streptozotocin-Induced Diabetes. <i>Diabetes</i> , 2012, 61, 3270-3279.	0.6	62
28	A Novel 3-Hydroxysteroid Dehydrogenase That Regulates Reproductive Development and Longevity. <i>PLoS Biology</i> , 2012, 10, e1001305.	5.6	61
29	Fresh insights into glucocorticoid-induced diabetes mellitus and new therapeutic directions. <i>Nature Reviews Endocrinology</i> , 2022, 18, 540-557.	9.6	60
30	The Rieske oxygenase DAF $\kappa$ 36 functions as a cholesterol 7 $\alpha$ -desaturase in steroidogenic pathways governing longevity. <i>Aging Cell</i> , 2011, 10, 879-884.	6.7	59
31	Lecithin:Cholesterol Acyltransferase Deficiency Protects against Cholesterol-induced Hepatic Endoplasmic Reticulum Stress in Mice. <i>Journal of Biological Chemistry</i> , 2012, 287, 20755-20768.	3.4	51
32	Loss of the Mono-ADP-ribosyltransferase, Tiparp, Increases Sensitivity to Dioxin-induced Steatohepatitis and Lethality. <i>Journal of Biological Chemistry</i> , 2015, 290, 16824-16840.	3.4	51
33	Induction of P-Glycoprotein by Antiretroviral Drugs in Human Brain Microvessel Endothelial Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 4481-4488.	3.2	49
34	Mammalian Susceptibility to a Neonicotinoid Insecticide after Fetal and Early Postnatal Exposure. <i>Scientific Reports</i> , 2018, 8, 16639.	3.3	49
35	Regulation of the Aldo-Keto Reductase Gene <i>akr1b7</i> by the Nuclear Oxysterol Receptor LXR $\beta$ (Liver X) Tj ETQq1 1 0.784314 rgBT /Ov... <i>Endocrinology</i> , 2004, 18, 888-898.	3.7	46
36	Aromatase Deficiency Causes Altered Expression of Molecules Critical for Calcium Reabsorption in the Kidneys of Female Mice. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1893-1902.	2.8	45

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37	Diet polyphenol curcumin stimulates hepatic Fgf21 production and restores its sensitivity in high fat diet fed male mice. <i>Endocrinology</i> , 2016, 158, jc.2016.1596.	2.8	44
38	Comparison of Furosemide and Vinblastine Secretion from Cell Lines Overexpressing Multidrug Resistance Protein (P-Glycoprotein) and Multidrug Resistance-Associated Proteins (MRP1 and MRP2). <i>Pharmacology</i> , 2002, 64, 126-134.	2.2	43
39	Compound Prioritization Methods Increase Rates of Chemical Probe Discovery in Model Organisms. <i>Chemistry and Biology</i> , 2011, 18, 1273-1283.	6.0	41
40	Oxidized Low-Density Lipoprotein Loading of Macrophages Downregulates TLR-Induced Proinflammatory Responses in a Gene-Specific and Temporal Manner through Transcriptional Control. <i>Journal of Immunology</i> , 2017, 199, 2149-2157.	0.8	40
41	Synthesis, Characterization, and Receptor Interaction Profiles of Enantiomeric Bile Acids. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 6048-6058.	6.4	39
42	Synthesis and Activity of Dafachronic Acid Ligands for the <i>C. elegans</i> DAF-12 Nuclear Hormone Receptor. <i>Molecular Endocrinology</i> , 2009, 23, 640-648.	3.7	37
43	SIRT1 activation ameliorates hyperglycaemia by inducing a torpor-like state in an obese mouse model of type 2 diabetes. <i>Diabetologia</i> , 2015, 58, 819-827.	6.3	34
44	AKR1B7 Is Induced by the Farnesoid X Receptor and Metabolizes Bile Acids. <i>Journal of Biological Chemistry</i> , 2011, 286, 2425-2432.	3.4	33
45	Age and sex differences in the effects of the immunosuppressants cyclosporine, sirolimus and everolimus on rat brain metabolism. <i>NeuroToxicology</i> , 2011, 32, 50-57.	3.0	32
46	Liver X receptors preserve renal glomerular integrity under normoglycaemia and in diabetes in mice. <i>Diabetologia</i> , 2014, 57, 435-446.	6.3	32
47	Cellular cholesterol accumulation modulates high fat high sucrose (HFHS) diet-induced ER stress and hepatic inflammasome activation in the development of non-alcoholic steatohepatitis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 594-605.	2.4	31
48	Beyond the Foam Cell: The Role of LXRs in Preventing Atherogenesis. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2307.	4.1	30
49	A miRNA-driven negative feedback loop regulates peripheral glucocorticoid receptor signaling. <i>FASEB Journal</i> , 2019, 33, 5924-5941.	0.5	30
50	Peroxisome Proliferator-Activated Receptor-gamma agonists exhibit anti-inflammatory and antiviral effects in an EcoHIV mouse model. <i>Scientific Reports</i> , 2019, 9, 9428.	3.3	29
51	Dafadine inhibits DAF-9 to promote dauer formation and longevity of <i>Caenorhabditis elegans</i> . <i>Nature Chemical Biology</i> , 2011, 7, 891-893.	8.0	27
52	Idebenone and coenzyme Q10 are novel PPAR $\alpha$ / $\beta$ ligands, with potential for treatment of fatty liver diseases. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	26
53	Identification and Quantitation of Sorbitol-Based Nuclear Clarifying Agents Extracted from Common Laboratory and Consumer Plasticware Made of Polypropylene. <i>Analytical Chemistry</i> , 2008, 80, 5532-5541.	6.5	20
54	ARGLU1 is a transcriptional coactivator and splicing regulator important for stress hormone signaling and development. <i>Nucleic Acids Research</i> , 2019, 47, 2856-2870.	14.5	20

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55	The omega-3 hydroxy fatty acid 7( <i>S</i>)-HDHA is a high-affinity PPAR $\alpha$ ligand that regulates brain neuronal morphology. <i>Science Signaling</i> , 2022, 15, .	3.6	17
56	Separating the Anti-Inflammatory and Diabetogenic Effects of Glucocorticoids Through LXR $\beta$ Antagonism. <i>Endocrinology</i> , 2017, 158, 1034-1047.	2.8	15
57	The marginal cells of the <i>Caenorhabditis elegans</i> pharynx scavenge cholesterol and other hydrophobic small molecules. <i>Nature Communications</i> , 2019, 10, 3938.	12.8	14
58	3- <i>Carboxy-4-methyl-5-propyl-2-furanpropanoic acid</i> (CMPF) prevents high fat diet-induced insulin resistance via maintenance of hepatic lipid homeostasis. <i>Diabetes, Obesity and Metabolism</i> , 2019, 21, 61-72.	4.4	13
59	Determination of p-aninosalicylic acid and its N-acetylated metabolite in human urine by capillary zone electrophoresis as a measure of in vivo N-acetyltransferase 1 activity. <i>Biomedical Applications</i> , 1997, 697, 283-288.	1.7	10
60	Exploring the transformability of polymer-lipid hybrid nanoparticles and nanomaterial-biology interplay to facilitate tumor penetration, cellular uptake and intracellular targeting of anticancer drugs. <i>Expert Opinion on Drug Delivery</i> , 2021, 18, 1-14.	5.0	10
61	Liver X receptors as therapeutic targets for managing cholesterol: implications for inflammatory conditions. <i>Clinical Lipidology</i> , 2009, 4, 29-40.	0.4	9
62	Selective peroxisome proliferator-activated receptor- $\gamma$ modulator, INT131 exhibits anti-inflammatory effects in an EcoHIV mouse model. <i>FASEB Journal</i> , 2020, 34, 1996-2010.	0.5	9
63	Loss of the Liver X Receptors Disrupts the Balance of Hematopoietic Populations, With Detrimental Effects on Endothelial Progenitor Cells. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	8
64	Essential role of STAT-3 dependent NF- $\kappa$ B activation on IL-6-mediated downregulation of hepatic transporters. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 143, 105151.	4.0	8
65	Subchronic glucocorticoids, glutathione depletion and a postpartum model elevate monoamine oxidase a activity in the prefrontal cortex of rats. <i>Brain Research</i> , 2017, 1666, 1-10.	2.2	7
66	4-Phenylbutyric acid improves free fatty acid-induced hepatic insulin resistance in vivo. <i>Endocrine Connections</i> , 2021, 10, 861-872.	1.9	6
67	Phenolic Lipids Derived from Cashew Nut Shell Liquid to Treat Metabolic Diseases. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 1961-1978.	6.4	6
68	EphB2 reverse signaling regulates learned opiate tolerance via hippocampal function. <i>Behavioural Brain Research</i> , 2016, 300, 85-96.	2.2	5
69	The secretome of liver X receptor agonist-treated early outgrowth cells decreases atherosclerosis in <i>Ldlr</i> <sup>-/-</sup> mice. <i>Stem Cells Translational Medicine</i> , 2021, 10, 479-491.	3.3	5
70	Tetracosahexaenoyl ethanolamide, a novel N-acyl ethanolamide, is elevated in ischemia and increases neuronal output. <i>Journal of Lipid Research</i> , 2020, 61, 1480-1490.	4.2	4
71	Activation and gut-homing of peripheral T cells in HIV immunologic non-responders despite long term viral suppression. <i>PLoS ONE</i> , 2021, 16, e0254149.	2.5	4
72	Macrophage Jak2 deficiency accelerates atherosclerosis through defects in cholesterol efflux. <i>Communications Biology</i> , 2022, 5, 132.	4.4	4

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73	Getting the Skinny on Follistatin and Fat. <i>Endocrinology</i> , 2017, 158, 1109-1112.	2.8	3
74	The CRH $\alpha$ Transgenic Cushingoid Mouse Is a Model of Glucocorticoid $\alpha$ Induced Osteoporosis. <i>JBMR Plus</i> , 2017, 1, 46-57.	2.7	3
75	Quantification of Oxysterol Nuclear Receptor Ligands by LC/MS/MS. <i>Methods in Molecular Biology</i> , 2019, 1951, 1-14.	0.9	3
76	Strategies and limitations associated with in vitro characterization of vitamin D receptor activators. <i>Biochemical Pharmacology</i> , 2018, 155, 547-561.	4.4	1
77	Disruption of Adipose Tissue Metabolism by Glucocorticoids Is Attenuated With LXR $\beta$ Antagonism. <i>Journal of the Endocrine Society</i> , 2021, 5, A821-A822.	0.2	1