Leo A Van Grunsven

List of Publications by Year
in descending order

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132 papers	11,120 citations	47 h-index	102 g-index
		47006	30922
134 all docs	134 docs citations	134 times ranked	21266 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
2	The Two-Handed E Box Binding Zinc Finger Protein SIP1 Downregulates E-Cadherin and Induces Invasion. Molecular Cell, 2001, 7, 1267-1278.	9.7	1,264
3	Stellate Cells, Hepatocytes, and Endothelial Cells Imprint the Kupffer Cell Identity on Monocytes Colonizing the Liver Macrophage Niche. Immunity, 2019, 51, 638-654.e9.	14.3	384
4	A role for autophagy during hepatic stellate cell activation. Journal of Hepatology, 2011, 55, 1353-1360.	3.7	317
5	The Hippo pathway effector YAP controls mouse hepatic stellate cell activation. Journal of Hepatology, 2015, 63, 679-688.	3.7	284
6	Keratin 19: a key role player in the invasion of human hepatocellular carcinomas. Gut, 2014, 63, 674-685.	12.1	221
7	Advanced glycation end products induce production of reactive oxygen species via the activation of NADPH oxidase in murine hepatic stellate cells. Journal of Hepatology, 2010, 52, 389-397.	3.7	182
8	Novel human hepatic organoid model enables testing of drug-induced liver fibrosis inÂvitro. Biomaterials, 2016, 78, 1-10.	11.4	181
9	Liposome based systems for systemic siRNA delivery: Stability in blood sets the requirements for optimal carrier design. Journal of Controlled Release, 2012, 158, 362-370.	9.9	175
10	Generation of Hepatic Stellate Cells from Human Pluripotent Stem Cells Enables InÂVitro Modeling of Liver Fibrosis. Cell Stem Cell, 2018, 23, 101-113.e7.	11.1	170
11	FXR agonist obeticholic acid reduces hepatic inflammation and fibrosis in a rat model of toxic cirrhosis. Scientific Reports, 2016, 6, 33453.	3.3	168
12	The biliary epithelium gives rise to liver progenitor cells. Hepatology, 2014, 60, 1367-1377.	7.3	158
13	Peritumoral activation of the Hippo pathway effectors YAP and TAZ suppresses liver cancer in mice. Science, 2019, 366, 1029-1034.	12.6	140
14	Cooperation of Sp1 and p300 in the induction of the CDK inhibitor p21WAF1/CIP1 during NGF-mediated neuronal differentiation. Oncogene, 1999, 18, 2872-2882.	5.9	134
15	Valproic Acid Attenuates Proteinuria and Kidney Injury. Journal of the American Society of Nephrology: JASN, 2011, 22, 1863-1875.	6.1	109
16	Cdyl: a new transcriptional coâ€repressor. EMBO Reports, 2003, 4, 877-882.	4.5	105
17	3D in vitro models of liver fibrosis. Advanced Drug Delivery Reviews, 2017, 121, 133-146.	13.7	104
18	EpCAM and the biology of hepatic stem/progenitor cells. American Journal of Physiology - Renal Physiology, 2015, 308, G233-G250.	3.4	102

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19	Laminin-332 sustains chemoresistance and quiescence as part of the human hepatic cancer stem cell niche. Journal of Hepatology, 2016, 64, 609-617.	3.7	102
20	Chronic administration of valproic acid inhibits activation of mouse hepatic stellate cellsin vitroandin vivo. Hepatology, 2010, 51, 603-614.	7.3	97
21	Interaction between Smad-interacting Protein-1 and the Corepressor C-terminal Binding Protein Is Dispensable for Transcriptional Repression of E-cadherin. Journal of Biological Chemistry, 2003, 278, 26135-26145.	3.4	96
22	Distinct biological properties of two RET isoforms activated by MENâ€‰2A and MENâ€‰2B mutations. Oncogene, 1997, 14, 265-275.	5.9	90
23	Atypical Mowat-Wilson patient confirms the importance of the novel association between ZFHX1B/SIP1 and NuRD corepressor complex. Human Molecular Genetics, 2008, 17, 1175-1183.	2.9	85
24	The GALAD scoring algorithm based on AFP, AFP-L3, and DCP significantly improves detection of BCLC early stage hepatocellular carcinoma. Zeitschrift Fur Gastroenterologie, 2016, 54, 1296-1305.	0.5	83
25	Osteopontin neutralisation abrogates the liver progenitor cell response and fibrogenesis in mice. Gut, 2015, 64, 1120-1131.	12.1	81
26	Neural crest-specific removal of Zfhx1b in mouse leads to a wide range of neurocristopathies reminiscent of Mowatâ€“Wilson syndrome. Human Molecular Genetics, 2007, 16, 1423-1436.	2.9	80
27	Integrative miRNA and Gene Expression Profiling Analysis of Human Quiescent Hepatic Stellate Cells. Scientific Reports, 2015, 5, 11549.	3.3	79
28	Inhibition of placental growth factor activity reduces the severity of fibrosis, inflammation, and portal hypertension in cirrhotic mice. Hepatology, 2011, 53, 1629-1640.	7.3	78
29	Blebbistatin inhibits contraction and accelerates migration in mouse hepatic stellate cells. British Journal of Pharmacology, 2010, 159, 304-315.	5.4	77
30	Ab initio chemical safety assessment: A workflow based on exposure considerations and non-animal methods. Computational Toxicology, 2017, 4, 31-44.	3.3	75
31	The quest for liver progenitor cells: A practical point of view. Journal of Hepatology, 2010, 52, 117-129.	3.7	73
32	HDAC inhibitors in experimental liver and kidney fibrosis. Fibrogenesis and Tissue Repair, 2013, 6, 1.	3.4	71
33	In vitro reversion of activated primary human hepatic stellate cells. Fibrogenesis and Tissue Repair, 2015, 8, 14.	3.4	68
34	ÎEF1 and SIP1 are differentially expressed and have overlapping activities duringXenopusembryogenesis. Developmental Dynamics, 2006, 235, 1491-1500.	1.8	61
35	Genome-wide analysis of DNA methylation and gene expression patterns in purified, uncultured human liver cells and activated hepatic stellate cells. Oncotarget, 2015, 6, 26729-26745.	1.8	61
36	Reactive cholangiocytes differentiate into proliferative hepatocytes with efficient DNA repair in mice with chronic liver injury. Journal of Hepatology, 2019, 70, 1180-1191.	3.7	61

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37	Autophagy: A new player in hepatic stellate cell activation. Autophagy, 2012, 8, 126-128.	9.1	60
38	The CDK inhibitor p21WAF1/Cip1 is induced through a p300-dependent mechanism during NGF-mediated neuronal differentiation of PC12 cells. Oncogene, 1996, 13, 2047-54.	5.9	59
39	NIR is a novel INHAT repressor that modulates the transcriptional activity of p53. Genes and Development, 2005, 19, 2912-2924.	5.9	56
40	Class II HDAC Inhibition Hampers Hepatic Stellate Cell Activation by Induction of MicroRNA-29. PLoS ONE, 2013, 8, e55786.	2.5	56
41	Gene Expression Profiling and Secretome Analysis Differentiate Adult-Derived Human Liver Stem/Progenitor Cells and Human Hepatic Stellate Cells. PLoS ONE, 2014, 9, e86137.	2.5	55
42	Comparison of trichostatin A and valproic acid treatment regimens in a mouse model of kidney fibrosis. Toxicology and Applied Pharmacology, 2013, 271, 276-284.	2.8	54
43	Successful isolation of liver progenitor cells by aldehyde dehydrogenase activity in naÃ¯ve mice. Hepatology, 2012, 55, 540-552.	7.3	53
44	XSip1 neuralizing activity involves the co-repressor CtBP and occurs through BMP dependent and independent mechanisms. Developmental Biology, 2007, 306, 34-49.	2.0	52
45	Correlation Between Epidermal Growth Factor Receptor-Specific Nanobody Uptake and Tumor Burden: A Tool for Noninvasive Monitoring of Tumor Response to Therapy. Molecular Imaging and Biology, 2011, 13, 940-948.	2.6	51
46	Effect of nerve growth factor on the expression of cell cycle regulatory proteins in PC12 cells: dissection of the neurotrophic response from the anti-mitogenic response. Oncogene, 1996, 12, 1347-56.	5.9	51
47	Direct regulation of the Nrarp gene promoter by the Notch signaling pathway. Biochemical and Biophysical Research Communications, 2004, 322, 526-534.	2.1	50
48	XSIP1, a Xenopus zinc finger/homeodomain encoding gene highly expressed during early neural development. Mechanisms of Development, 2000, 94, 189-193.	1.7	46
49	Vinculin and cellular retinol-binding protein-1 are markers for quiescent and activated hepatic stellate cells in formalin-fixed paraffin embedded human liver. Histochemistry and Cell Biology, 2009, 131, 313-325.	1.7	45
50	High Throughput Micro-Well Generation of Hepatocyte Micro-Aggregates for Tissue Engineering. PLoS ONE, 2014, 9, e105171.	2.5	44
51	The roles of transforming growth factor-Î², Wnt, Notch and hypoxia on liver progenitor cells in primary liver tumours. International Journal of Oncology, 2014, 44, 1015-1022.	3.3	43
52	Influence of inflammation on the immunological profile of adult-derived human liver mesenchymal stromal cells and stellate cells. Cytotherapy, 2015, 17, 174-185.	0.7	43
53	Current and emerging pharmacotherapeutic interventions for the treatment of liver fibrosis. Expert Opinion on Pharmacotherapy, 2020, 21, 1637-1649.	1.8	42
54	Role of liver progenitors in acute liver injury. Frontiers in Physiology, 2013, 4, 258.	2.8	41

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55	Zeb2 Regulates Cell Fate at the Exit from Epiblast State in Mouse Embryonic Stem Cells. Stem Cells, 2017, 35, 611-625.	3.2	41
56	Prospects in non-invasive assessment of liver fibrosis: Liquid biopsy as the future gold standard?. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 1024-1036.	3.8	41
57	Dynamic regulation of Brachyury expression in the amphibian embryo by XSIP1. Mechanisms of Development, 2002, 111, 37-46.	1.7	40
58	The combination of 4-1BBL and CD40L strongly enhances the capacity of dendritic cells to stimulate HIV-specific T cell responses. Journal of Leukocyte Biology, 2011, 89, 989-999.	3.3	40
59	Pentraxinâ€3 modulates lipopolysaccharideâ€induced inflammatory response and attenuates liver injury. Hepatology, 2017, 66, 953-968.	7.3	39
60	Regeneration Defects in Yap and Taz Mutant Mouse Livers Are Caused by Bile Duct Disruption and Cholestasis. Gastroenterology, 2021, 160, 847-862.	1.3	38
61	Circulating ECV-Associated miRNAs as Potential Clinical Biomarkers in Early Stage HBV and HCV Induced Liver Fibrosis. Frontiers in Pharmacology, 2017, 8, 56.	3.5	37
62	Gene Expression Profiling of Early Hepatic Stellate Cell Activation Reveals a Role for Igfbp3 in Cell Migration. PLoS ONE, 2013, 8, e84071.	2.5	37
63	Human liver mesenchymal stem/progenitor cells inhibit hepatic stellate cell activation: in vitro and in vivo evaluation. Stem Cell Research and Therapy, 2017, 8, 131.	5.5	36
64	Organization of the mouse Zfhx1b gene encoding the two-handed zinc finger repressor Smad-interacting protein-1â˜†. Genomics, 2003, 82, 460-469.	2.9	34
65	Efficient definitive endoderm induction from mouse embryonic stem cell adherent cultures: A rapid screening model for differentiation studies. Stem Cell Research, 2014, 12, 166-177.	0.7	32
66	InÂvivo hepatocyte MR imaging using lactose functionalized magnetoliposomes. Biomaterials, 2014, 35, 1015-1024.	11.4	32
67	Tumor-initiating capacity of CD138â^' and CD138+ tumor cells in the 5T33 multiple myeloma model. Leukemia, 2012, 26, 1436-1439.	7.2	31
68	The role of miRNAs in stress-responsive hepatic stellate cells during liver fibrosis. Frontiers in Physiology, 2015, 6, 209.	2.8	31
69	Single cell RNA sequencing analysis did not predict hepatocyte infection by SARS-CoV-2. Journal of Hepatology, 2020, 73, 993-995.	3.7	31
70	Alteration in Nâ€glycomics during mouse aging: a role for FUT8. Aging Cell, 2011, 10, 1056-1066.	6.7	28
71	Downregulation of Sox9 Expression Associates with Hepatogenic Differentiation of Human Liver Mesenchymal Stem/Progenitor Cells. Stem Cells and Development, 2014, 23, 1377-1391.	2.1	28
72	Combined glucocorticoid resistance and hyperlactatemia contributes to lethal shock in sepsis. Cell Metabolism, 2021, 33, 1763-1776.e5.	16.2	28

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73	Loss of RASSF4 Expression in Multiple Myeloma Promotes RAS-Driven Malignant Progression. Cancer Research, 2018, 78, 1155-1168.	0.9	27
74	Unfolded protein response is an early, non-critical event during hepatic stellate cell activation. Cell Death and Disease, 2019, 10, 98.	6.3	27
75	Directed differentiation of human induced pluripotent stem cells to hepatic stellate cells. Nature Protocols, 2021, 16, 2542-2563.	12.0	26
76	PU.1 drives specification of pluripotent stem cell-derived endothelial cells to LSEC-like cells. Cell Death and Disease, 2021, 12, 84.	6.3	25
77	Macrophage Depletion Attenuates Extracellular Matrix Deposition and Ductular Reaction in a Mouse Model of Chronic Cholangiopathies. PLoS ONE, 2016, 11, e0162286.	2.5	25
78	Smads and chromatin modulation. Cytokine and Growth Factor Reviews, 2005, 16, 495-512.	7.2	24
79	Combination of tauroursodeoxycholic acid and Nâ€acetylcysteine exceeds standard treatment for acetaminophen intoxication. Liver International, 2017, 37, 748-756.	3.9	24
80	Modulation of the Unfolded Protein Response by Tauroursodeoxycholic Acid Counteracts Apoptotic Cell Death and Fibrosis in a Mouse Model for Secondary Biliary Liver Fibrosis. International Journal of Molecular Sciences, 2017, 18, 214.	4.1	24
81	A PDGFRÎ²-based score predicts significant liver fibrosis in patients with chronic alcohol abuse, NAFLD and viral liver disease. EBioMedicine, 2019, 43, 501-512.	6.1	24
82	Epigenetic regulation of hepatic stellate cell activation and liver fibrosis. Expert Review of Gastroenterology and Hepatology, 2016, 10, 1397-1408.	3.0	23
83	Initiation of hepatic stellate cell activation extends into chronic liver disease. Cell Death and Disease, 2021, 12, 1110.	6.3	23
84	Transforming growth factor Î² signalling in vitro and in vivo: activin ligandâ€“receptor interaction, Smad5 in vasculogenesis, and repression of target genes by the Î´EF1/ZEB-related SIP1 in the vertebrate embryo. Molecular and Cellular Endocrinology, 2001, 180, 13-24.	3.2	22
85	Protective effect of genetic deletion of pannexin1 in experimental mouse models of acute and chronic liver disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 819-830.	3.8	22
86	Mitochondrial uncouplers inhibit hepatic stellate cell activation. BMC Gastroenterology, 2012, 12, 68.	2.0	21
87	P311, Friend, or Foe of Tissue Fibrosis?. Frontiers in Pharmacology, 2018, 9, 1151.	3.5	21
88	The fibrotic response of primary liver spheroids recapitulates in vivo hepatic stellate cell activation. Biomaterials, 2020, 261, 120335.	11.4	21
89	Best Practices and Progress in Precision-Cut Liver Slice Cultures. International Journal of Molecular Sciences, 2021, 22, 7137.	4.1	21
90	Hepatic Stellate Cells Improve Engraftment of Human Primary Hepatocytes: A Preclinical Transplantation Study in an Animal Model. Cell Transplantation, 2015, 24, 2557-2571.	2.5	19

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91	The miRFIB-Score: A Serological miRNA-Based Scoring Algorithm for the Diagnosis of Significant Liver Fibrosis. Cells, 2019, 8, 1003.	4.1	19
92	A fully defined matrix to support a pluripotent stem cell derived multi-cell-liver steatohepatitis and fibrosis model. Biomaterials, 2021, 276, 121006.	11.4	19
93	Leptin-mediated reactive oxygen species production does not significantly affect primary mouse hepatocyte functions in vitro. European Journal of Gastroenterology and Hepatology, 2012, 24, 1370-1380.	1.6	18
94	Role of liver progenitors in liver regeneration. Hepatobiliary Surgery and Nutrition, 2015, 4, 48-58.	1.5	18
95	Histone deacetylase inhibition and the regulation of cell growth with particular reference to liver pathobiology. Journal of Cellular and Molecular Medicine, 2009, 13, 2990-3005.	3.6	17
96	Next generation of ALDH substrates and their potential to study maturational lineage biology in stem and progenitor cells. American Journal of Physiology - Renal Physiology, 2015, 308, G573-G578.	3.4	17
97	Functionality based method for simultaneous isolation of rodent hepatic sinusoidal cells. Biomaterials, 2017, 139, 91-101.	11.4	17
98	Capsaicin Modulates Proliferation, Migration, and Activation of Hepatic Stellate Cells. Cell Biochemistry and Biophysics, 2014, 68, 387-396.	1.8	16
99	Inhibitory effect of dietary capsaicin on liver fibrosis in mice. Molecular Nutrition and Food Research, 2015, 59, 1107-1116.	3.3	16
100	Endothelial Zeb2 preserves the hepatic angioarchitecture and protects against liver fibrosis. Cardiovascular Research, 2022, 118, 1262-1275.	3.8	16
101	Smicl is a novel Smad interacting protein and cleavage and polyadenylation specificity factor associated protein. Genes To Cells, 2005, 10, 897-906.	1.2	15
102	Direct reprogramming of somatic cells into induced hepatocytes: Cracking the Enigma code. Journal of Hepatology, 2021, 75, 690-705.	3.7	15
103	Advances in hepatic stem/progenitor cell biology. EXCLI Journal, 2015, 14, 33-47.	0.7	15
104	Distinct roles for non-muscle myosin II isoforms in mouse hepatic stellate cells. Journal of Hepatology, 2011, 54, 132-141.	3.7	14
105	P311 modulates hepatic stellate cells migration. Liver International, 2015, 35, 1253-1264.	3.9	13
106	Assessing Tumor-Infiltrating Lymphocytes in Breast Cancer: A Proposal for Combining Immunohistochemistry and Gene Expression Analysis to Refine Scoring. Frontiers in Immunology, 2022, 13, 794175.	4.8	13
107	CTLA-4 interacts with STAT5 and inhibits STAT5-mediated transcription. Immunology, 2006, 117, 396-401.	4.4	12
108	Time-Dependent Effect of Hypoxia on Tumor Progression and Liver Progenitor Cell Markers in Primary Liver Tumors. PLoS ONE, 2015, 10, e0119555.	2.5	12

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109	Aldehyde Dehydrogenase Activity in Adipose Tissue: Isolation and Gene Expression Profile of Distinct Sub-population of Mesenchymal Stromal Cells. Stem Cell Reviews and Reports, 2018, 14, 599-611.	5.6	12
110	Comparison of the Opn-CreER and Ck19-CreER Drivers in Bile Ducts of Normal and Injured Mouse Livers. Cells, 2019, 8, 380.	4.1	12
111	Human hepatic stellate cells and inflammation: A regulated cytokine network balance. Cytokine, 2017, 90, 130-134.	3.2	11
112	RNA-sequencing-based comparative analysis of human hepatic progenitor cells and their niche from alcoholic steatohepatitis livers. Cell Death and Disease, 2017, 8, e3164-e3164.	6.3	11
113	SIP1 (Smad Interacting Protein 1) and ÎŤEF1 (Î´-Crystallin Enhancer Binding Factor) are Structurally Similar Transcriptional Repressors. Journal of Bone and Joint Surgery - Series A, 2001, 83, S1-40â€“S1â€“47.	3.0	11
114	Syncoilin is an intermediate filament protein in activated hepatic stellate cells. Histochemistry and Cell Biology, 2014, 141, 85-99.	1.7	10
115	Brief Report: The Deletion of the Phosphatase Regulator NIPP1 Causes Progenitor Cell Expansion in the Adult Liver. Stem Cells, 2016, 34, 2256-2262.	3.2	10
116	Foreskin-derived mesenchymal stromal cells with aldehyde dehydrogenase activity: isolation and gene profiling. BMC Cell Biology, 2018, 19, 4.	3.0	10
117	Gene Signatures Detect Damaged Liver Sinusoidal Endothelial Cells in Chronic Liver Diseases. Frontiers in Medicine, 2021, 8, 750044.	2.6	9
118	CRBP-I in the renal tubulointerstitial compartment of healthy rats and rats with renal fibrosis. Nephrology Dialysis Transplantation, 2008, 23, 3464-3471.	0.7	8
119	Meta-Analysis of Human and Mouse Biliary Epithelial Cell Gene Profiles. Cells, 2019, 8, 1117.	4.1	8
120	Complex Smad-Dependent Transcriptional Responses in Vertebrate Development and Human Disease. Critical Reviews in Eukaryotic Gene Expression, 2002, 12, 101-118.	0.9	8
121	Infliximab and Dexamethasone Attenuate the Ductular Reaction in Mice. Scientific Reports, 2016, 6, 36586.	3.3	6
122	Aldehyde dehydrogenase activity of Wharton jelly mesenchymal stromal cells: isolation and characterization. Cytotechnology, 2019, 71, 427-441.	1.6	5
123	Are dietary emulsifiers making us fat?. Journal of Hepatology, 2015, 63, 1045-1048.	3.7	4
124	Essential validation of gene trap mouse ES cell lines: a test case with the gene Ttrap. International Journal of Developmental Biology, 2009, 53, 1045-1051.	0.6	4
125	Improved Precision-Cut Liver Slice Cultures for Testing Drug-Induced Liver Fibrosis. Frontiers in Medicine, 2022, 9, 862185.	2.6	4
126	Isolation and Characterization of Bone Marrow Mesenchymal Stromal Cell Subsets in Culture Based on Aldehyde Dehydrogenase Activity. Tissue Engineering - Part C: Methods, 2018, 24, 89-98.	2.1	3

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127	Immuno-biological comparison of hepatic stellate cells in a reverted and activated state. Biomedicine and Pharmacotherapy, 2018, 98, 52-62.	5.6	3
128	Sharpen your look on liver progenitor cells. Hepatology, 2012, 55, 319-321.	7.3	2
129	Extension of the Virtual Cell Based Assay from a 2-D to a 3-D Cell Culture Model. ATLA Alternatives To Laboratory Animals, 2022, 50, 45-56.	1.0	2
130	Reply:. Hepatology, 2010, 51, 2228-2228.	7.3	1
131	Epigenetic Regulation of Myeloma Within Its Bone Marrow Microenvironment. , 2013, , 255-282.		0
132	Editorial: Roles of Liver Sinusoidal Endothelial Cells in Liver Homeostasis and Disease. Frontiers in Physiology, 2022, 13, 869473.	2.8	0