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## Pathogenesis of liver fibrosis

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1244	Increased hepatic fibrosis and JNK2-dependent liver injury in mice exhibiting hepatocyte-specific deletion of cFLIP. <b>2012</b> , 303, G498-506		22
1243	Hepatocyte-stellate cell cross-talk in the liver engenders a permissive inflammatory microenvironment that drives progression in hepatocellular carcinoma. <b>2012</b> , 72, 2533-42		150
1242	Specific delivery of kinase inhibitors in nonmalignant and malignant diseases. <b>2012</b> , 9, 59-70		5
1241	Anatomy, pathophysiology and basic mechanisms of disease. <b>2012</b> , 1-77		11

1240	Coffee and caffeine protect against liver injury induced by thioacetamide in male Wistar rats. <b>2012</b> , 111, 339-47	57
1239	Targeting autophagy for the treatment of liver diseases. <b>2012</b> , 66, 463-74	57
1238	Serotonin: a double-edged sword for the liver?. <b>2012</b> , 10, 107-13	38
1237	CD11b(+) Gr1(+) bone marrow cells ameliorate liver fibrosis by producing interleukin-10 in mice. <b>2012</b> , 56, 1902-12	51
1236	Retinol binding protein-albumin domain III fusion protein deactivates hepatic stellate cells. <b>2012</b> , 34, 517-22	10
1235	Organ fibrosis inhibited by blocking transforming growth factor- $\beta$ signaling via peroxisome proliferator-activated receptor $\beta$ agonists. <b>2012</b> , 11, 467-78	44
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1232	ECM roles in the function of metabolic tissues. <b>2012</b> , 23, 16-22	53
1231	Activated hepatic stellate cells upregulate transcription of ecto-5'-nucleotidase/CD73 via specific SP1 and SMAD promoter elements. <b>2012</b> , 303, G904-14	41
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1229	Protect thee from the sins of thy fathers?. <b>2012</b> , 18, 1331-2	2
1228	Inhibitory effects of Scutellaria baicalensis extract on hepatic stellate cells through inducing G2/M cell cycle arrest and activating ERK-dependent apoptosis via Bax and caspase pathway. <b>2012</b> , 139, 829-37	59
1227	Protective effects of allopurinol against acute liver damage and cirrhosis induced by carbon tetrachloride: modulation of NF- $\kappa$ B, cytokine production and oxidative stress. <b>2012</b> , 1820, 65-75	38
1226	Survivin expression induced by endothelin-1 promotes myofibroblast resistance to apoptosis. <b>2012</b> , 44, 158-69	60
1225	Huangqi decoction inhibits apoptosis and fibrosis, but promotes Kupffer cell activation in dimethylnitrosamine-induced rat liver fibrosis. <b>2012</b> , 12, 51	30
1224	Therapeutic administration of the direct thrombin inhibitor argatroban reduces hepatic inflammation in mice with established fatty liver disease. <b>2012</b> , 181, 1287-95	31
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1222	Circulating microparticles as disease-specific biomarkers of severity of inflammation in patients with hepatitis C or nonalcoholic steatohepatitis. <b>2012</b> , 143, 448-58	137
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1220	Imidazolium salt attenuates thioacetamide-induced liver fibrosis in mice by modulating inflammation and oxidative stress. <b>2012</b> , 44, 665-73	12
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1217	Lineage tracing and genetic ablation of ADAM12(+) perivascular cells identify a major source of profibrotic cells during acute tissue injury. <b>2012</b> , 18, 1262-70	293
1216	Withaferin-A reduces type I collagen expression in vitro and inhibits development of myocardial fibrosis in vivo. <b>2012</b> , 7, e42989	34
1215	Inhibition of Notch signaling by a $\beta$ secretase inhibitor attenuates hepatic fibrosis in rats. <b>2012</b> , 7, e46512	99
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1213	Heme oxygenase, inflammation, and fibrosis: the good, the bad, and the ugly?. <b>2012</b> , 3, 81	63
1212	Liver fibrosis: mechanisms of immune-mediated liver injury. <b>2012</b> , 9, 296-301	101
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1210	Immunopathogenesis and prognostic immune markers of chronic hepatitis B virus infection. <b>2012</b> , 27, 223-30	49
1209	Proteome and computational analyses reveal new insights into the mechanisms of hepatitis C virus-mediated liver disease posttransplantation. <b>2012</b> , 56, 28-38	31
1208	Cyclin E1 controls proliferation of hepatic stellate cells and is essential for liver fibrogenesis in mice. <b>2012</b> , 56, 1140-9	36
1207	Inflammation in alcoholic liver disease. <b>2012</b> , 32, 343-68	192
1206	Peroxisome proliferator-activated receptor- $\alpha$ cross-regulation of signaling events implicated in liver fibrogenesis. <b>2012</b> , 24, 596-605	51
1205	Liver fibrosis and hepatocyte apoptosis are attenuated by GKT137831, a novel NOX4/NOX1 inhibitor in vivo. <b>2012</b> , 53, 289-96	177

1204	Deletion of gp130 in myeloid cells modulates IL-6-release and is associated with more severe liver injury of Con A hepatitis. <b>2012</b> , 91, 576-81	11
1203	Increased Th17 cells contribute to disease progression in patients with HBV-associated liver cirrhosis. <b>2012</b> , 19, 396-403	90
1202	Assessment of inflammation and fibrosis in non-alcoholic fatty liver disease by imaging-based techniques. <b>2012</b> , 27, 1281-92	27
1201	Experimental hyperprolinemia induces mild oxidative stress, metabolic changes, and tissue adaptation in rat liver. <b>2012</b> , 113, 174-83	14
1200	Non-invasive assessment of liver fibrosis in patients with chronic hepatitis B. <b>2013</b> , 7, 356-68	20
1199	3,3'-Diindolylmethane ameliorates experimental hepatic fibrosis via inhibiting miR-21 expression. <b>2013</b> , 170, 649-60	23
1198	Inhibition of hepatic fibrosis with artificial microRNA using ultrasound and cationic liposome-bearing microbubbles. <b>2013</b> , 20, 1140-8	30
1197	TRPM7 channel regulates PDGF-BB-induced proliferation of hepatic stellate cells via PI3K and ERK pathways. <b>2013</b> , 272, 713-25	58
1196	Interaction of hepatic stellate cells with diverse types of immune cells: foe or friend?. <b>2013</b> , 28 Suppl 1, 99-104	36
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1194	Curcumin modulates cannabinoid receptors in liver fibrosis in vivo and inhibits extracellular matrix expression in hepatic stellate cells by suppressing cannabinoid receptor type-1 in vitro. <b>2013</b> , 721, 133-40	44
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1171	Factor VII activating protease (FSAP) exerts anti-inflammatory and anti-fibrotic effects in liver fibrosis in mice and men. <b>2013</b> , 58, 104-11	22
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1169	Regulation of wound healing and organ fibrosis by toll-like receptors. <b>2013</b> , 1832, 1005-17	99

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1164	Effect of bioactive peptide of Carapax Trionycis on TGF- $\beta$ -induced intracellular events in hepatic stellate cells. <b>2013</b> , 148, 69-73	19
1163	Peroxisome proliferator-activated receptor- $\beta$ s a therapeutic target for hepatic fibrosis: from bench to bedside. <b>2013</b> , 70, 259-76	64
1162	Defining hepatic dysfunction parameters in two models of fatty liver disease in zebrafish larvae. <b>2013</b> , 10, 199-210	43
1161	HIV and co-infections. <b>2013</b> , 254, 114-42	81
1160	Paeonol inhibits hepatic fibrogenesis via disrupting nuclear factor- $\kappa$ B pathway in activated stellate cells: in vivo and in vitro studies. <b>2013</b> , 28, 1223-33	29
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1158	The $\beta$ -catenin pathway contributes to the effects of leptin on SREBP-1c expression in rat hepatic stellate cells and liver fibrosis. <b>2013</b> , 169, 197-212	49
1157	Platelet-derived growth factor (PDGF)-C neutralization reveals differential roles of PDGF receptors in liver and kidney fibrosis. <b>2013</b> , 182, 107-17	44
1156	Sphingosine-1-phosphate: a Janus-faced mediator of fibrotic diseases. <b>2013</b> , 1831, 239-50	63
1155	Matrix mechanics and regulation of the fibroblast phenotype. <b>2013</b> , 63, 14-28	52
1154	Myristoylated Alanine-Rich protein Kinase C Substrate (MARCKS) expression modulates the metastatic phenotype in human and murine colon carcinoma in vitro and in vivo. <b>2013</b> , 333, 244-52	38
1153	BML-11, a lipoxin receptor agonist, protected carbon tetrachloride-induced hepatic fibrosis in rats. <b>2013</b> , 36, 1101-6	17
1152	Antifibrotic properties of transarterial oncolytic VSV therapy for hepatocellular carcinoma in rats with thioacetamide-induced liver fibrosis. <b>2013</b> , 21, 2032-42	10
1151	Combined taurine, epigallocatechin gallate and genistein therapy reduces HSC-T6 cell proliferation and modulates the expression of fibrogenic factors. <b>2013</b> , 14, 20543-54	15

1150	Anchoring hepatic gene expression with development of fibrosis and neoplasia in a toxicant-induced fish model of liver injury. <b>2013</b> , 41, 744-60	13
1149	Hepatitis C virus infection induces inflammatory cytokines and chemokines mediated by the cross talk between hepatocytes and stellate cells. <b>2013</b> , 87, 8169-78	55
1148	Salvianolic acid B inhibits hepatic stellate cell activation through transforming growth factor beta-1 signal transduction pathway in vivo and in vitro. <b>2013</b> , 238, 1284-96	24
1147	Recombinant adeno-associated virus-mediated transfer of shRNA against Notch3 ameliorates hepatic fibrosis in rats. <b>2013</b> , 238, 600-9	12
1146	Matricellular protein CCN1 promotes regression of liver fibrosis through induction of cellular senescence in hepatic myofibroblasts. <b>2013</b> , 33, 2078-90	185
1145	TGF- $\beta$ up-regulates the expression of PDGF- $\beta$ receptor mRNA and induces a delayed PI3K-, AKT-, and p70(S6K) -dependent proliferative response in activated hepatic stellate cells. <b>2013</b> , 37, 1838-48	43
1144	Vitamin D in chronic liver disease. <b>2013</b> , 33, 338-52	101
1143	Depletion of $\beta$ arrestin2 in hepatic stellate cells reduces cell proliferation via ERK pathway. <b>2013</b> , 114, 1153-62	15
1142	Regression effect of hepatocyte nuclear factor 4 $\beta$ on liver cirrhosis in rats. <b>2013</b> , 14, 318-27	7
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1140	S-nitroso-N-acetylcysteine attenuates liver fibrosis in experimental nonalcoholic steatohepatitis. <b>2013</b> , 7, 553-63	12
1139	Altered functionality of anti-bacterial antibodies in patients with chronic hepatitis C virus infection. <b>2013</b> , 8, e64992	16
1138	Inactivated ORF virus shows antifibrotic activity and inhibits human hepatitis B virus (HBV) and hepatitis C virus (HCV) replication in preclinical models. <b>2013</b> , 8, e74605	12
1137	Regression of fibrosis and reversal of cirrhosis in rats by galectin inhibitors in thioacetamide-induced liver disease. <b>2013</b> , 8, e75361	147
1136	Therapy of experimental NASH and fibrosis with galectin inhibitors. <b>2013</b> , 8, e83481	127
1135	Pathological impact of hepatitis B virus surface proteins on the liver is associated with the host genetic background. <b>2014</b> , 9, e90608	23
1134	Activation of platelet-derived growth factor receptor alpha contributes to liver fibrosis. <b>2014</b> , 9, e92925	41
1133	The effect of antifibrotic drugs in rat precision-cut fibrotic liver slices. <b>2014</b> , 9, e95462	36



1132	TRPV4 channel inhibits TGF- $\beta$ -induced proliferation of hepatic stellate cells. <b>2014</b> , 9, e101179	34
1131	Helium generated cold plasma finely regulates activation of human fibroblast-like primary cells. <b>2014</b> , 9, e104397	54
1130	MiR-21 simultaneously regulates ERK1 signaling in HSC activation and hepatocyte EMT in hepatic fibrosis. <b>2014</b> , 9, e108005	72
1129	Regulator of G-protein signaling-5 is a marker of hepatic stellate cells and expression mediates response to liver injury. <b>2014</b> , 9, e108505	15
1128	Lack of a 5.9 kDa peptide C-terminal fragment of fibrinogen $\beta$ chain precedes fibrosis progression in patients with liver disease. <b>2014</b> , 9, e109254	12
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1126	Cellular Anatomy of the Liver (Hepatocyte, Biliary Epithelial Cells, Endothelial Cells, Kupffer Cells and Hepatic Stellate Cells). <b>2014</b> , 1759-1769	1
1125	Intracellular glutathione depletion by oridonin leads to apoptosis in hepatic stellate cells. <b>2014</b> , 19, 3327-44	78
1124	Exploring the Therapeutic Potentials of iNKT Cells for Anti-HBV Treatment. <b>2014</b> , 3, 563-76	4
1123	Nrf2 pathway activation contributes to anti-fibrosis effects of ginsenoside Rg1 in a rat model of alcohol- and CCL4-induced hepatic fibrosis. <b>2014</b> , 35, 1031-44	72
1122	Hepatoprotective effects of Limonium tetragonum, edible medicinal halophyte growing near seashores. <b>2014</b> , 10, S563-8	12
1121	Molecular mechanisms of liver fibrosis in HIV/HCV coinfection. <b>2014</b> , 15, 9184-208	55
1120	Ratios of regulatory T cells/T-helper 17 cells and transforming growth factor- $\beta$ /interleukin-17 to be associated with the development of hepatitis B virus-associated liver cirrhosis. <b>2014</b> , 29, 1065-72	31
1119	Interleukin-21 mediates hepatitis B virus-associated liver cirrhosis by activating hepatic stellate cells. <b>2014</b> , 44, E198-205	9
1118	3, 3'-Diindolylmethane alleviates steatosis and the progression of NASH partly through shifting the imbalance of Treg/Th17 cells to Treg dominance. <b>2014</b> , 23, 489-98	40
1117	Hesperidin prevents liver fibrosis in rats by decreasing the expression of nuclear factor- $\kappa$ B, transforming growth factor- $\beta$ and connective tissue growth factor. <b>2014</b> , 94, 80-9	22
1116	IL-34 and macrophage colony-stimulating factor are overexpressed in hepatitis C virus fibrosis and induce profibrotic macrophages that promote collagen synthesis by hepatic stellate cells. <b>2014</b> , 60, 1879-90	89
1115	Curcumin affects $\beta$ catenin pathway in hepatic stellate cell in vitro and in vivo. <b>2014</b> , 66, 1615-22	16

1114	Tetramethylpyrazine inhibits angiotensin II-induced activation of hepatic stellate cells associated with interference of platelet-derived growth factor $\beta$ receptor pathways. <b>2014</b> , 281, 2754-68	25
1113	Curcumin attenuates angiogenesis in liver fibrosis and inhibits angiogenic properties of hepatic stellate cells. <b>2014</b> , 18, 1392-406	97
1112	(+)-Catechin attenuates activation of hepatic stellate cells. <b>2014</b> , 38, 526-30	5
1111	The pro-fibrotic effects of pregnancy in a carbon-tetrachloride-induced liver injury in mouse model. <b>2014</b> , 34, 1232-40	1
1110	miR-106b-25/miR-17-92 clusters: polycistrons with oncogenic roles in hepatocellular carcinoma. <b>2014</b> , 20, 5962-72	74
1109	Immuno-pathomechanism of liver fibrosis: targeting chemokine CCL2-mediated HIV:HCV nexus. <b>2014</b> , 12, 341	8
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1107	Curcumin protects against CCL4-induced liver fibrosis in rats by inhibiting HIF-1 $\beta$ through an ERK-dependent pathway. <b>2014</b> , 19, 18767-80	42
1106	Autophagy: a multifaceted partner in liver fibrosis. <b>2014</b> , 2014, 869390	62
1105	Celecoxib attenuates hepatic cirrhosis through inhibition of epithelial-to-mesenchymal transition of hepatocytes. <b>2014</b> , 29, 1932-42	35
1104	A novel mouse model of depletion of stellate cells clarifies their role in ischemia/reperfusion- and endotoxin-induced acute liver injury. <b>2014</b> , 60, 298-305	68
1103	Prevention of rat liver fibrosis and carcinogenesis by coffee and caffeine. <b>2014</b> , 64, 20-6	24
1102	Inhalation of vanadium pentoxide and its toxic effects in a mouse model. <b>2014</b> , 420, 8-15	27
1101	Curcumin regulates delta-like homolog 1 expression in activated hepatic stellate cell. <b>2014</b> , 728, 9-15	13
1100	Therapeutic effect of Soshiho-tang, a traditional herbal formula, on liver fibrosis or cirrhosis in animal models: a systematic review and meta-analysis. <b>2014</b> , 154, 1-16	9
1099	Hrd1 suppresses Nrf2-mediated cellular protection during liver cirrhosis. <b>2014</b> , 28, 708-22	195
1098	Pathological functions of interleukin-22 in chronic liver inflammation and fibrosis with hepatitis B virus infection by promoting T helper 17 cell recruitment. <b>2014</b> , 59, 1331-42	124
1097	Virus induced inflammation and cancer development. <b>2014</b> , 345, 174-81	45

1096	Diallyl trisulfide attenuates carbon tetrachloride-caused liver injury and fibrogenesis and reduces hepatic oxidative stress in rats. <b>2014</b> , 387, 445-55	21
1095	MicroRNAs and liver disease: viral hepatitis, liver fibrosis and hepatocellular carcinoma. <b>2014</b> , 90, 106-12	15
1094	Modulation of carbon tetrachloride-induced hepatic oxidative stress, injury and fibrosis by olmesartan and omega-3. <b>2014</b> , 207, 81-91	27
1093	Protective effects of L-carnitine, N-acetylcysteine and genistein in an experimental model of liver fibrosis. <b>2014</b> , 38, 63-72	32
1092	Thymoquinone alleviates thioacetamide-induced hepatic fibrosis and inflammation by activating LKB1-AMPK signaling pathway in mice. <b>2014</b> , 19, 351-7	59
1091	Novel modulators of hepatosteatosis, inflammation and fibrogenesis. <b>2014</b> , 8 Suppl 2, 413-20	7
1090	Activation of extrinsic apoptosis pathway in HCV monoinfected and HIV-HCV coinfecting patients, irrespective of liver disease severity. <b>2014</b> , 19, 1128-35	5
1089	Poly (ADP-ribose) polymerase-1 is a key mediator of liver inflammation and fibrosis. <b>2014</b> , 59, 1998-2009	85
1088	Acanthoic acid, a diterpene in <i>Acanthopanax koreanum</i> , ameliorates the development of liver fibrosis via LXRs signals. <b>2014</b> , 218, 63-70	17
1087	Nrf2 promotes the development of fibrosis and tumorigenesis in mice with defective hepatic autophagy. <b>2014</b> , 61, 617-25	166
1086	Hedgehog signaling pathway as key player in liver fibrosis: new insights and perspectives. <b>2014</b> , 18, 1011-21	41
1085	The commonly used antimicrobial additive triclosan is a liver tumor promoter. <b>2014</b> , 111, 17200-5	140
1084	Paeoniflorin alleviates liver fibrosis by inhibiting HIF-1 $\alpha$ through mTOR-dependent pathway. <b>2014</b> , 99, 318-27	36
1083	Inhibitory effects of capsaicin on hepatic stellate cells and liver fibrosis. <b>2014</b> , 92, 406-12	11
1082	GATA binding protein 2 mediates leptin inhibition of PPAR $\alpha$ expression in hepatic stellate cells and contributes to hepatic stellate cell activation. <b>2014</b> , 1842, 2367-77	26
1081	Saquinone attenuates liver fibrosis and hepatic stellate cell activation through TGF- $\beta$ /Smad signaling pathway. <b>2014</b> , 224, 58-67	48
1080	A reversible model for periportal fibrosis and a refined alternative to bile duct ligation. <b>2014</b> , 3, 98-109	10
1079	Antagonistic interaction between Wnt and Notch activity modulates the regenerative capacity of a zebrafish fibrotic liver model. <b>2014</b> , 60, 1753-66	52

1078	TGF- $\beta$ -elevated TRPM7 channel regulates collagen expression in hepatic stellate cells via TGF- $\beta$ /Smad pathway. <b>2014</b> , 280, 335-44	42
1077	HCV and HIV co-infection: mechanisms and management. <b>2014</b> , 11, 362-71	119
1076	The novel Janus kinase inhibitor ruxolitinib confers protection against carbon tetrachloride-induced hepatotoxicity via multiple mechanisms. <b>2014</b> , 220, 116-27	12
1075	Fibroblast growth factor 21 limits lipotoxicity by promoting hepatic fatty acid activation in mice on methionine and choline-deficient diets. <b>2014</b> , 147, 1073-83.e6	162
1074	Effects of Ganfukang on expression of connective tissue growth factor and focal adhesion kinase/protein kinase B signal pathway in hepatic fibrosis rats. <b>2014</b> , 20, 438-44	5
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1072	Tetramethylpyrazine reduces glucose and insulin-induced activation of hepatic stellate cells by inhibiting insulin receptor-mediated PI3K/AKT and ERK pathways. <b>2014</b> , 382, 197-204	38
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876	Angiotensin-converting enzyme inhibitor prevents oxidative stress, inflammation, and fibrosis in carbon tetrachloride-treated rat liver. <b>2016</b> , 26, 46-53	25
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860	Inhibition of IRF3 expression reduces TGF- $\beta$ -induced proliferation of hepatic stellate cells. <b>2016</b> , 72, 9-23	12
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855	Hepatic MR Elastography: Clinical Performance in a Series of 1377 Consecutive Examinations. <b>2016</b> , 278, 114-24	176
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853	Comparative proteomic analysis of fibrotic liver of rats fed high fat diet contained lard versus corn oil. <b>2017</b> , 36, 198-208	5
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850	Hydrogen donors and acceptors and basic amino acids jointly contribute to carcinogenesis. <b>2017</b> , 98, 42-44	33
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848	Canonical hedgehog signalling regulates hepatic stellate cell-mediated angiogenesis in liver fibrosis. <b>2017</b> , 174, 409-423	47
847	Purinergic P2X7 receptor mediates acetaldehyde-induced hepatic stellate cells activation via PKC-dependent GSK3 $\beta$ pathway. <b>2017</b> , 43, 164-171	19
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7 <sup>17</sup>	Curcumin protects against hepatic stellate cells activation and migration by inhibiting the CXCL12/CXCR4 biological axis in liver fibrosis:A study in vitro and in vivo. <b>2018</b> , 101, 599-607	21
7 <sup>16</sup>	Thyroid hormone in the regulation of hepatocellular carcinoma and its microenvironment. <b>2018</b> , 419, 175-186	13
7 <sup>15</sup>	Leptin up-regulates microRNA-27a/b-3p level in hepatic stellate cells. <b>2018</b> , 366, 63-70	13
7 <sup>14</sup>	Toxicogenomic module associations with pathogenesis: a network-based approach to understanding drug toxicity. <b>2018</b> , 18, 377-390	45
7 <sup>13</sup>	Epigenetic Effects of an Adenosine Derivative in a Wistar Rat Model of Liver Cirrhosis. <b>2018</b> , 119, 401-413	10
7 <sup>12</sup>	Statins and Angiotensin-Converting Enzyme Inhibitors are Associated with Reduced Mortality and Morbidity in Chronic Liver Disease. <b>2018</b> , 122, 104-110	9
7 <sup>11</sup>	MicroRNA-21 and Dicer are dispensable for hepatic stellate cell activation and the development of liver fibrosis. <b>2018</b> , 67, 2414-2429	45
7 <sup>10</sup>	Utility of diffusion weighted imaging (DWI) in assessment of liver fibrosisPeer review under responsibility of Alexandria University Faculty of Medicine.View all notesAvailable online 9 October 2017View all notes. <b>2018</b> , 54, 347-352	1
7 <sup>09</sup>	Inflammation is regulated by the adenosine derivative molecule, IFC-305, during reversion of cirrhosis in a CCl rat model. <b>2018</b> , 54, 12-23	11
7 <sup>08</sup>	Food components with antifibrotic activity and implications in prevention of liver disease. <b>2018</b> , 55, 1-11	47
7 <sup>07</sup>	Fibro-Mark: a panel of laboratory parameters for predicting significant fibrosis in chronic hepatitis C patients. <b>2018</b> , 75, 19-23	6
7 <sup>06</sup>	IL-22 inactivates hepatic stellate cells via downregulation of the TGF- $\beta$ /Notch signaling pathway. <b>2018</b> , 17, 5449-5453	14
7 <sup>05</sup>	Effect of mangiferin on mRNA expression of transforming growth factor beta in rats with liver fibrosis induced by thioacetamide. <b>2018</b> , 1073, 032076	2
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7 <sup>02</sup>	Alpha Mangostin Inhibits the Proliferation and Activation of Acetaldehyde Induced Hepatic Stellate Cells through TGF- and ERK 1/2 Pathways. <b>2018</b> , 2018, 5360496	5
7 <sup>01</sup>	Immune Disorders in HIV-Infected Patients Coinfected with Hepatitis C Virus. <b>2018</b> ,	1



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699	Hypoxia-inducible factor 1 $\alpha$ and ROCK1 regulate proliferation and collagen synthesis in hepatic stellate cells under hypoxia. <b>2018</b> , 18, 3997-4003	8
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696	Selective abdominal venous congestion induces adverse renal and hepatic morphological and functional alterations despite a preserved cardiac function. <b>2018</b> , 8, 17757	13
695	Ferulic acid attenuates liver fibrosis and hepatic stellate cell activation via inhibition of TGF- $\beta$ /Smad signaling pathway. <b>2018</b> , 12, 4107-4115	49
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687	Kindlin-2 regulates hepatic stellate cells activation and liver fibrogenesis. <b>2018</b> , 4, 34	13
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683	Recombinant NS3 Protein Induced Expression of Immune Modulatory Elements in Hepatic Stellate Cells During Its Fibrotic Activity. <b>2018</b> , 31, 575-582	1

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518	4-Methoxy Sulfonyl Paeonol Inhibits Hepatic Stellate Cell Activation and Liver Fibrosis by Blocking the TGF- $\beta$ /Smad, PDGF-BB/MAPK and Akt Signaling Pathways. <b>2020</b> , 10, 5941	1
517	Sennoside A prevents liver fibrosis by binding DNMT1 and suppressing DNMT1-mediated PTEN hypermethylation in HSC activation and proliferation. <b>2020</b> , 34, 14558-14571	10
516	Prognostic nomogram for hepatocellular carcinoma with fibrosis of varying degrees: a retrospective cohort study. <b>2020</b> , 8, 1429	3
515	Impact of crosslink heterogeneity on extracellular matrix mechanics and remodeling. <b>2020</b> , 18, 3969-3976	5
514	Advance on the absorption, metabolism, and efficacy exertion of quercetin and its important derivatives. <b>2020</b> , 1, 420-434	10
513	New Approaches for the Treatment of Chronic Graft-Versus-Host Disease: Current Status and Future Directions. <b>2020</b> , 11, 578314	16
512	Pro- and Anti-fibrogenic Functions of Gram-Negative Bacterial Lipopolysaccharide in the Liver. <b>2020</b> , 7, 130	7
511	Pharmacological Inhibition of Cyclin-Dependent Kinases Triggers Anti-Fibrotic Effects in Hepatic Stellate Cells In Vitro. <b>2020</b> , 21,	4
510	PTPROt aggravates inflammation by enhancing NF- $\kappa$ B activation in liver macrophages during nonalcoholic steatohepatitis. <b>2020</b> , 10, 5290-5304	13
509	Single-cell technologies in hepatology: new insights into liver biology and disease pathogenesis. <b>2020</b> , 17, 457-472	44
508	Long-Term Exposure to Low-Dose Di-(2-ethylhexyl) Phthalate Impairs Cholesterol Metabolism in Hepatic Stellate Cells and Exacerbates Liver Fibrosis. <b>2020</b> , 17,	4
507	Liver fibrosis associated with potential vinyl chloride and ethylene dichloride exposure from the petrochemical industry. <b>2020</b> , 739, 139920	4
506	Astaxanthin inhibits the reduction of glycolysis during the activation of hepatic stellate cells. <b>2020</b> , 256, 117926	1
505	The Therapeutic Potential of Extracellular Vesicles Versus Mesenchymal Stem Cells in Liver Damage. <b>2020</b> , 17, 537-552	17
504	Intrahepatic T helper 17 cells recruited by hepatitis B virus X antigen-activated hepatic stellate cells exacerbate the progression of chronic hepatitis B virus infection. <b>2020</b> , 27, 1138-1149	5
503	Activation of BK Channels Prevents Hepatic Stellate Cell Activation and Liver Fibrosis Through the Suppression of TGF $\beta$ /SMAD3 and JAK/STAT3 Profibrotic Signaling Pathways. <b>2020</b> , 11, 165	9

502	The liver as an immunological barrier redefined by single-cell analysis. <b>2020</b> , 160, 157-170	16
501	Androgen aggravates liver fibrosis by activation of NLRP3 inflammasome in CCl <sub>4</sub> -induced liver injury mouse model. <b>2020</b> , 318, E817-E829	10
500	HOXB13 expression is correlated with hepatic inflammatory activity of patients with hepatic fibrosis. <b>2020</b> , 51, 183-189	0
499	Gaining New Biological and Therapeutic Applications into the Liver with 3D In Vitro Liver Models. <b>2020</b> , 17, 731-745	7
498	Oridonin ameliorates carbon tetrachloride-induced liver fibrosis in mice through inhibition of the NLRP3 inflammasome. <b>2020</b> , 81, 526-533	18
497	CD47 Deficiency in Mice Exacerbates Chronic Fatty Diet-Induced Steatohepatitis Through Its Role in Regulating Hepatic Inflammation and Lipid Metabolism. <b>2020</b> , 11, 148	5
496	Administration of Steamed and Freeze-Dried Mature Silkworm Larval Powder Prevents Hepatic Fibrosis and Hepatocellular Carcinogenesis by Blocking TGF- $\beta$ /STAT3 Signaling Cascades in Rats. <b>2020</b> , 9,	6
495	Hepatic stellate cell hypertrophy is associated with metabolic liver fibrosis. <b>2020</b> , 10, 3850	13
494	Advances in functional and molecular MRI technologies in chronic liver diseases. <b>2020</b> , 73, 1241-1254	11
493	Transplantation of fetal liver tissue coated by ultra-purified alginate gel over liver improves hepatic function in the cirrhosis rat model. <b>2020</b> , 10, 8231	4
492	Utility of Common Marmoset () Embryonic Stem Cells in Liver Disease Modeling, Tissue Engineering and Drug Metabolism. <b>2020</b> , 11,	5
491	Elucidating Potential Profibrotic Mechanisms of Emerging Biomarkers for Early Prognosis of Hepatic Fibrosis. <b>2020</b> , 21,	5
490	Lipid nanoparticle technology for therapeutic gene regulation in the liver. <b>2020</b> , 159, 344-363	63
489	Evodiamine and rutaecarpine from Tetradium ruticarpum in the treatment of liver diseases. <b>2020</b> , 68, 153180	17
488	Identification of Ppar-modulated miRNA hubs that target the fibrotic tumor microenvironment. <b>2020</b> , 117, 454-463	19
487	Leptin promotes methionine adenosyltransferase 2A expression in hepatic stellate cells by the downregulation of E2F-4 via the Eatenin pathway. <b>2020</b> , 34, 5578-5589	7
486	S100A4 promotes hepatocellular carcinogenesis by intensifying fibrosis-associated cancer cell stemness. <b>2020</b> , 9, 1725355	8
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484	Exosomal miR-103-3p from LPS-activated THP-1 macrophage contributes to the activation of hepatic stellate cells. <b>2020</b> , 34, 5178-5192	39
483	Intercellular crosstalk of hepatic stellate cells in liver fibrosis: New insights into therapy. <b>2020</b> , 155, 104720	37
482	Hepatoprotective effect of total flavonoids of <i>Mallotus apelta</i> (Lour.) Muell.Arg. leaf against carbon tetrachloride-induced liver fibrosis in rats via modulation of TGF- $\beta$ /Smad and NF- $\kappa$ B signaling pathways. <b>2020</b> , 254, 112714	9
481	Systematic review: The diagnostic efficacy of gadoxetic acid-enhanced MRI for liver fibrosis staging. <b>2020</b> , 125, 108857	6
480	Total phenolic extract of <i>Euscaphis konishii</i> hayata Pericarp attenuates carbon tetrachloride (CCl <sub>4</sub> )-induced liver fibrosis in mice. <b>2020</b> , 125, 109932	6
479	Benzoquinone derivatives with antioxidant activity inhibit activated hepatic stellate cells and attenuate liver fibrosis in TAA-induced mice. <b>2020</b> , 317, 108945	9
478	Human adipose stem cell-derived extracellular nanovesicles for treatment of chronic liver fibrosis. <b>2020</b> , 320, 328-336	19
477	Upregulation of KSRP by miR-27b attenuates schistosomiasis-induced hepatic fibrosis by targeting TGF- $\beta$ . <b>2020</b> , 34, 4120-4133	5
476	Purine signaling regulating HSCs inflammatory cytokines secretion, activation, and proliferation plays a critical role in alcoholic liver disease. <b>2020</b> , 466, 91-102	3
475	Dynamic Changes in Function and Proteomic Composition of Extracellular Vesicles from Hepatic Stellate Cells during Cellular Activation. <b>2020</b> , 9,	11
474	Mechanisms of liver fibrosis and its role in liver cancer. <b>2020</b> , 245, 96-108	41
473	Collagen-targeted MRI contrast agent for liver fibrosis detection. <b>2020</b> , 17, 201-202	7
472	An AMPK-caspase-6 axis controls liver damage in nonalcoholic steatohepatitis. <b>2020</b> , 367, 652-660	70
471	Does Mechanocrine Signaling by Liver Sinusoidal Endothelial Cells Offer New Opportunities for the Development of Anti-fibrotics?. <b>2019</b> , 6, 312	8
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468	The in vitro effects of phospholipase D1-mTOR axis in liver fibrogenesis. <b>2020</b> , 251, 117595	
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465	Guidelines for diagnosis and treatment of hepatic fibrosis with integrated traditional Chinese and Western medicine (2019 edition). <b>2020</b> , 18, 203-213	11
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462	Staging liver fibrosis on multiparametric MRI in a rabbit model with elastography, susceptibility-weighted imaging and T1ρ imaging: a preliminary study. <b>2021</b> , 62, 155-163	0
461	The protective effect of essential oil on CCl induced liver fibrosis in rats. <b>2021</b> , 44, 229-237	3
460	Editorial for "Radiomics Approaches for Predicting Liver Fibrosis With Nonenhanced T1-Weighted Imaging: Comparison of Different Radiomics Models". <b>2021</b> , 53, 1090-1091	
459	The antimicrobial peptide YD attenuates inflammation miR-155 targeting CASP12 during liver fibrosis. <b>2021</b> , 11, 100-111	3
458	Salvianolic acid B blocks hepatic stellate cell activation via FGF19/FGFR4 signaling. <b>2021</b> , 20, 100259	4
457	A lncRNA Gpr137b-ps/miR-200a-3p/CXCL14 axis modulates hepatic stellate cell (HSC) activation. <b>2021</b> , 336, 21-31	4
456	Radiomics Approaches for Predicting Liver Fibrosis With Nonenhanced T -Weighted Imaging: Comparison of Different Radiomics Models. <b>2021</b> , 53, 1080-1089	3
455	Hepatoprotective activity of silymarin encapsulation against hepatic damage in albino rats. <b>2021</b> , 28, 717-723	7
454	Localized inhibition of platelets and platelet derived growth factor by a matrix targeted glycan mimetic significantly attenuates liver fibrosis. <b>2021</b> , 269, 120538	3
453	Determining the effector response to cell death. <b>2021</b> , 21, 292-304	11
452	Nicotinamide mononucleotide inhibits hepatic stellate cell activation to prevent liver fibrosis via promoting PGE degradation. <b>2021</b> , 162, 571-581	9
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450	Peroxisome proliferator-activated receptors in the pathogenesis and therapies of liver fibrosis. <b>2021</b> , 222, 107791	12
449	Role of sphingosine 1-phosphate signalling in tissue fibrosis. <b>2021</b> , 78, 109861	2

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447	Exosome-derived long non-coding RNA ADAMTS9-AS2 suppresses progression of oral submucous fibrosis via AKT signalling pathway. <b>2021</b> , 25, 2262-2273	8
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444	Second hits exacerbate alcohol-related organ damage: an update. <b>2021</b> , 56, 8-16	3
443	5-HT2B Receptors in Liver. <b>2021</b> , 247-264	
442	VEGFR2-Targeted Ultrasound Molecular Imaging of Angiogenesis to Evaluate Liver Allograft Fibrosis.	
441	A novel radiomics signature based on T2-weighted imaging accurately predicts hepatic inflammation in individuals with biopsy-proven nonalcoholic fatty liver disease: a derivation and independent validation study.. <b>2022</b> , 11, 212-226	0
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439	Genetics of Polygenic Metabolic Liver Disease. <b>2021</b> , 409-419	
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437	The morphological specifics of the stromal and parenchymal liver components of 6-12-months old children from hiv-mono-infected mothers. <b>2021</b> ,	
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433	Changes in serum interferon- $\gamma$ -inducible protein-10 levels and liver stiffness among chronic hepatitis C Egyptian patients in response to directly acting antiviral agents. <b>2021</b> ,	1
432	Regulatory Effect of Mesenchymal Stromal Cells on the Development of Liver Fibrosis: Cellular and Molecular Mechanisms and Prospects for Clinical Application. <b>2021</b> , 11, 54-66	
431	VEGFR2-targeted ultrasound molecular imaging of angiogenesis to evaluate liver allograft fibrosis. <b>2021</b> , 9, 5802-5811	2

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429	Mesenchymal stem cell-based treatment in autoimmune liver diseases: underlying roles, advantages and challenges. <b>2021</b> , 12, 2040622321993442	4
428	Disruption of myofibroblastic Notch signaling attenuates liver fibrosis by modulating fibrosis progression and regression. <b>2021</b> , 17, 2135-2146	2
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425	Ipilimumab and nivolumab/pembrolizumab in advanced hepatocellular carcinoma refractory to prior immune checkpoint inhibitors. <b>2021</b> , 9,	25
424	The role of Th17 cells in viral infections. <b>2021</b> , 91, 107331	10
423	Regulatory long non-coding RNAs of hepatic stellate cells in liver fibrosis (Review). <b>2021</b> , 21, 351	2
422	Complexation with Random Methyl- $\beta$ -Cyclodextrin and (2-Hydroxypropyl)- $\beta$ -Cyclodextrin Enhances In Vivo Anti-Fibrotic and Anti-Inflammatory Effects of Chrysin via the Inhibition of NF- $\kappa$ B and TGF- $\beta$ /Smad Signaling Pathways and Modulation of Hepatic Pro/Anti-Fibrotic miRNA. <b>2021</b> , 22,	2
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420	Cirrhosis and Chronic Liver Failure in Children. <b>2021</b> , 58-73	
419	5-methoxytryptophan alleviates liver fibrosis by modulating FOXO3a/miR-21/ATG5 signaling pathway mediated autophagy. <b>2021</b> , 20, 676-688	4
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410	RNF2 Mediates Hepatic Stellate Cells Activation by Regulating ERK/p38 Signaling Pathway in LX-2 Cells. <b>2021</b> , 9, 634902	6
409	Utilizing a Solvatochromic Optical Agent to Monitor the Polarity Changes in Dynamic Liver Injury Progression.. <b>2021</b> , 4, 3630-3638	4
408	Endogenous production of n-3 polyunsaturated fatty acids protects mice from carbon tetrachloride-induced liver fibrosis by regulating mTOR and Bcl-2/Bax signalling pathways. <b>2021</b> , 106, 983-993	1
407	Is COVID-19-induced liver injury different from other RNA viruses??. <b>2021</b> , 9, 108-127	
406	MiR-15b and miR-16 suppress TGF- $\beta$ -induced proliferation and fibrogenesis by regulating LOXL1 in hepatic stellate cells. <b>2021</b> , 270, 119144	5
405	Cyclin-dependent kinase inhibitor roscovitine attenuates liver inflammation and fibrosis by influencing initiating steps of liver injury. <b>2021</b> , 135, 925-941	1
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400	Therapeutic targeting of STAT3 with small interference RNAs and antisense oligonucleotides embedded exosomes in liver fibrosis. <b>2021</b> , 35, e21557	8
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390	Hexa Histidine-Tagged Recombinant Human Cytochrome Deactivates Hepatic Stellate Cells and Inhibits Liver Fibrosis by Scavenging Reactive Oxygen Species. <b>2021</b> , 73, 2527-2545	6
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384	A20 Attenuates Lipopolysaccharide-Induced Inflammation Through MAPK/ERK/JNK Pathway in LX-2 Cells. <b>2021</b> , 21,	0
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381	PFKFB3 Promotes Liver Fibrosis by Regulating Aerobic Glycolysis of Hepatic Stellate Cells. <b>2021</b> , 21,	
380	Antifibrotic and anthelmintic effect of casticin on Schistosoma mansoni-infected BALB/c mice. <b>2021</b> ,	1
379	Synthesis and anti-fibrotic effects of santamarin derivatives as cytotoxic agents against hepatic stellate cell line LX2. <b>2021</b> , 41, 127994	1
378	Using Zebrafish as a Disease Model to Study Fibrotic Disease. <b>2021</b> , 22,	2
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364	Staging Chronic Hepatitis B Related Liver Fibrosis with a Fractional Order Calculus Diffusion Model. <b>2021</b> ,	0
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362	CD39-mediated ATP-adenosine signalling promotes hepatic stellate cell activation and alcoholic liver disease. <b>2021</b> , 905, 174198	0
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357	General sites of nanoparticle biodistribution as a novel opportunity for nanomedicine. <b>2021</b> , 166, 44-60	2
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351	Engineering hydrogels for personalized disease modeling and regenerative medicine. <b>2021</b> , 132, 4-22	7
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348	The inhibitory effect of PLGA-encapsulated berberine on hepatotoxicity and $\alpha$ -smooth muscle actin ( $\alpha$ SMA) gene expression. <b>2021</b> , 284, 119884	
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345	Ursolic acid reverses liver fibrosis by inhibiting NOX4/NLRP3 inflammasome pathways and bacterial dysbiosis. <b>2021</b> , 13, 1972746	1
344	Expression of Syndecan-1 in Chronic Liver Diseases: Correlation With Hepatic Fibrosis. <b>2021</b> , 35, 333-339	2
343	Apigenin Alleviates Liver Fibrosis by Inhibiting Hepatic Stellate Cell Activation and Autophagy via TGF- $\beta$ /Smad3 and p38/PPAR Pathways. <b>2021</b> , 2021, 6651839	4
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