

Top 43 Terms with the Strongest Citation Bursts

Terms	Year	Strength	Begin	End	1990 - 2018
beta-catenin gene	1990	8.3092	1998	2005	
signaling pathway	1990	2.2313	2000	2001	
nuclear accumulation	1990	2.9721	2002	2005	
adenomatous polyposis coli	1990	6.4555	2002	2006	
genetic alterations	1990	3.7144	2002	2006	
beta-catenin mutations	1990	9.2414	2002	2005	
binding site	1990	3.1096	2004	2007	
gene expression	1990	2.9711	2004	2009	
european association	1990	4.4468	2005	2006	
beta-catenin pathway	1990	6.687	2005	2006	
expression pattern	1990	3.6033	2005	2008	
hepatocellular carcinomas	1990	8.0349	2007	2011	
canonical wnt	1990	6.8028	2007	2011	
wnt pathway	1990	2.8812	2008	2011	
liver development	1990	6.2437	2008	2009	
progenitor cells	1990	8.8815	2009	2010	
hepatic stellate cells	1990	1.9561	2009	2010	
stem cells	1990	5.667	2009	2011	
hepatic progenitor cells	1990	4.8503	2010	2011	
recent study	1990	7.2698	2010	2013	
aberrant activation	1990	3.9739	2010	2011	
tumor growth	1990	1.2367	2011	2012	
hcc cell lines	1990	2.2286	2012	2014	
important role	1990	3.8018	2012	2013	
hepatitis b virus	1990	6.5583	2012	2014	
cyclin d1	1990	1.0341	2012	2013	
mouse model	1990	2.5254	2013	2015	
dose-dependent manner	1990	5.9011	2013	2014	
beta-catenin expression	1990	2.1505	2013	2014	
transcription factor	1990	4.4366	2014	2015	
overall survival	1990	5.7983	2014	2016	
hepg2 cells	1990	5.9518	2014	2018	
beta-catenin activation	1990	1.2928	2014	2015	
liver regeneration	1990	0.538	2015	2016	
critical role	1990	1.2637	2015	2016	

Terms	Year	Strength	Begin	End	1990 - 2018
human hepatocellular carcinoma	1990	4.8092	2015	2016	
cell lines	1990	6.7347	2015	2018	
liver metastasis	1990	5.9868	2015	2016	
liver fibrosis	1990	6.8307	2015	2016	
hcc tissues	1990	6.4342	2016	2018	
cell migration	1990	5.6146	2016	2018	
hcc cells	1990	1.1262	2016	2018	
epithelial-mesenchymal transition	1990	6.939	2016	2018	