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https://www.nature.com/articles/s41388-020-1249-9

Mar 10, 2020 · **Regulatory T-cells** (T-reg) are **CD4+/CD25+/FOXP3+immune**-suppressive **T-cells** whose accumulation in HCC is associated with disease progression and reduced survival [31, 57].

Cited by: 26 **Author:** David J. Pinato, Nadia Guerra, Petros Fe...
Publish Year: 2020

Regulatory T Cells in Autoimmune and Viral Chronic Hepatitis
https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/26106627

May 28, 2015 · In both **autoimmune liver** disease and chronic **viral** hepatitis, the injury results from an **immune**-mediated cytotoxic T cell response to **liver cells**. As such, it is not surprising that **CD4 + regulatory T cells**, a key **regulatory** population of T **cells** able to curb **immune** responses, could be involved in both **autoimmune** hepatitis and chronic **viral** ...

Cited by: 14 **Author:** Pascal Lapierre, Alain Lamarre
Publish Year: 2015

Perioperative dynamic alterations in peripheral regulatory ...
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3292477

Jan 25, 2012 · Background. **Regulatory T cells** (Tregs) are a subpopulation **of CD4 + and CD8 + T cells** with **immune** suppressive function. In cancer patients especially patients with **hepatocellular carcinoma** (HCC), Tregs contribute to the dampening of the antitumor **immune** response [1,2].Patients undergoing hepatic resection for HCC with prominent Treg infiltration showed increased recurrence and worse ...

Cited by: 24 **Author:** Tianxiang Chen, Dongli Song, Zhihui Min,...
Publish Year: 2012

Regulatory T cells and IL-17+ T helper cells enhanced in ...
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4538083

Jun 15, 2015 · In recent years, **regulatory** T (Treg) **cells** and IL-17+ T helper (Th17) **cells** played an important **role** in **autoimmune diseases** and many studies proved that the expression of Treg and Th17 **cells** were changed in the patients with CHB, HBV-LC or HBV-HCC [11-13], but the systematic study of the change in different stages of chronic HBV infection were ...

Cited by: 9 **Author:** Hao Feng, Jie Yin, Ya-Ping Han, Xiao-Yin...
Publish Year: 2015

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https://www.nature.com/articles/s41388-020-1249-9

Mar 10, 2020 · **Regulatory T-cells** (T-reg) are **CD4+/CD25+/FOXP3+immune**-suppressive **T-cells** whose accumulation in HCC is associated with disease progression and reduced survival [31, 57].

Cited by: 29 **Author:** David J. Pinato, Nadia Guerra, Petros Fess...
Publish Year: 2020

The immunology of hepatocellular carcinoma - Nature

https://www.nature.com/articles/s41590-018-0044-z

Jan 29, 2018 · Spear, **T**. **T**. et al. TCR gene-modified **T cells** can efficiently treat established hepatitis C-associated **hepatocellular carcinoma** tumors. Cancer Immunol. Immunother. 65 , 293–304 (2016).

Cited by: 302 **Author:** Marc Ringelhan, Dominik Pfister, Tracy O'C...
Publish Year: 2018

FOXP3 gene polymorphism is associated with hepatitis B ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3718693

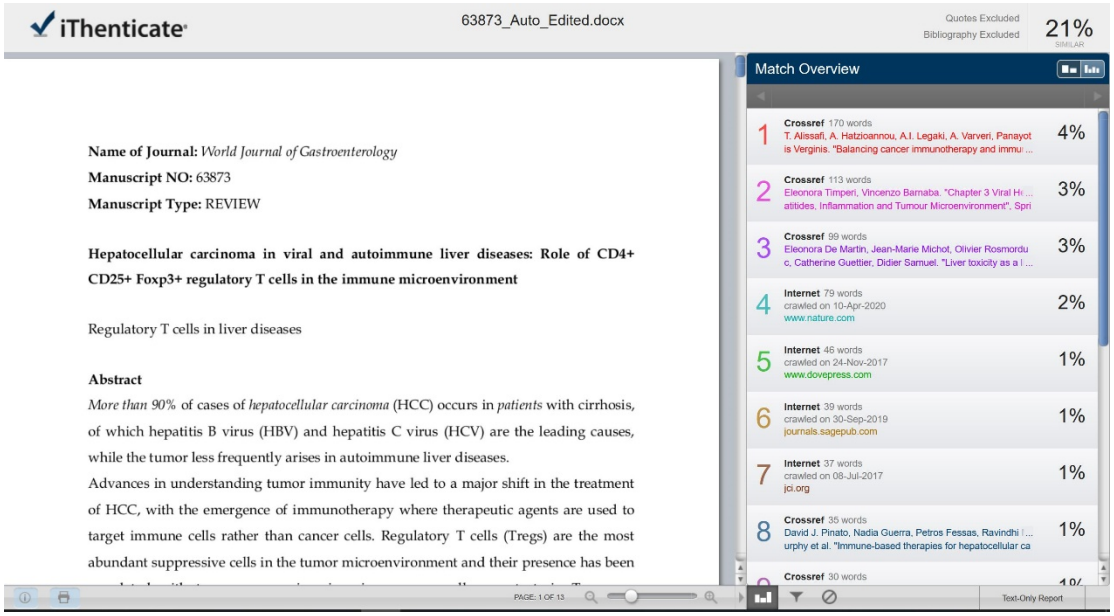
A previous study showed that the local tumor **immune microenvironment** plays an important **role** in cancer suppression and promotion and that one of the main factors leading to tumor **immune** tolerance in the local tumor **microenvironment** is the influence **of CD4+/CD25+/FOXP3+ regulatory T cells** (Tregs) .

Cited by: 26 **Author:** YanHui Chen, HengHui Zhang, WeiJia Liao, ...
Publish Year: 2013

Multidimensional analyses reveal distinct immune ...

https://gut.bmj.com/content/68/5/916

May 01, 2019 · Results In-depth interrogation of the **immune** landscapes showed that **regulatory T cells**



Name of Journal: *World Journal of Gastroenterology*
Manuscript NO: 63873
Manuscript Type: REVIEW

Hepatocellular carcinoma in viral and autoimmune liver diseases: Role of CD4+ CD25+ Foxp3+ regulatory T cells in the immune microenvironment

Regulatory T cells in liver diseases

Abstract

More than 90% of cases of *hepatocellular carcinoma* (HCC) occurs in *patients* with cirrhosis, of which hepatitis B virus (HBV) and hepatitis C virus (HCV) are the leading causes, while the tumor less frequently arises in autoimmune liver diseases.

Advances in understanding tumor immunity have led to a major shift in the treatment of HCC, with the emergence of immunotherapy where therapeutic agents are used to target immune cells rather than cancer cells. Regulatory T cells (Tregs) are the most abundant suppressive cells in the tumor microenvironment and their presence has been

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Hepatocellular carcinoma in viral and autoimmune liver diseases: Rc

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The immunology of hepatocellular carcinoma - Nature

https://www.nature.com/articles/s41590-018-0044-z

Jan 29, 2018 · Spear, T. T. et al. TCR gene-modified **T cells** can efficiently treat established hepatitis C-associated **hepatocellular carcinoma** tumors. Cancer Immunol. Immunother. 65 , 293–304 (2016).

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Immune-based therapies for hepatocellular carcinoma | ...

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Cited by: 29 **Author:** David J. Pinato, Nadia Guerra, Petros Fe...
Publish Year: 2020

Immunotherapy in hepatocellular carcinoma: the complex ...

https://jitc.biomedcentral.com/articles/10.1186/s40425-019-0749-z

Oct 18, 2019 · Introduction. **Hepatocellular carcinoma** (HCC) is a disease with both a grim prognosis and rising incidence. The most up to date estimates demonstrate a median overall survival of 9 months for all stages of untreated HCC, a number that worsens with increasing Barcelona Clinic **Liver** Cancer (BCLC) stage [].In the world, **liver** cancer is the third leading cause of cancer mortality while in the ...

Cited by: 24 **Author:** Bridget P. Keenan, Lawrence Fong, Robin...
Publish Year: 2019

In Situ Vaccination as a Strategy to Modulate the Immune ...

https://www.frontiersin.org/articles/10.3389/fimmu.2021.650486

Hepatocellular Carcinoma (HCC) is a highly prevalent malignancy that develops in patients with chronic **liver diseases** and dysregulated systemic and hepatic immunity. The tumor **microenvironment** (TME) contains tumor-associated macrophages (TAM), cancer-associated fibroblasts (CAF), **regulatory** T **cells** (Treg) and myeloid-derived suppressor **cells** (MDSC) and is central to mediating **immune** evasion ...

FOXP3 gene polymorphism is associated with hepatitis B ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3718602