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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 50953

Manuscript Type: Minireviews

InsP₃ receptor in the liver: Expression and function

Lemos FO *et al.* InsP₃ receptor in the liver

Fernanda de Oliveira Lemos, Rodrigo Machado Florentino, Antônio Carlos Melo

Lima Filho, Marccone Loiola dos Santos, Maria de Fatima Leite

Abstract



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InsP3 Receptor Regulates Hepatic Gluconeogenesis in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3343222>

May 03, 2012 · CRTC2 has also been found to stimulate **metabolic gene expression** by upregulating the **nuclear hormone receptor coactivator PGC1 α** in **liver** 14,15 and muscle 16. Based on the well-recognized role of calcium signaling in PGC1 α dependent transcription, **InsP3Rs** may also **function** importantly in this setting.

Cited by: 132**Author:** Yiguo Wang, Gang Li, Jason Goode, Jose ...**Publish Year:** 2012

Expression of the type 3 InsP3 receptor is a final common ...

<https://gut.bmj.com/content/68/9/1676> ▾

Sep 01, 2019 · Design **Expression** analyses of the type 3 isoform of the **inositol 1, 4, 5-trisphosphate receptor (ITPR3)** in **human liver samples**, **liver cancer cells** and **mouse liver** were combined with an evaluation of DNA methylation profiles of **ITPR3 promoter** in HCC and characterisation of the effects of **ITPR3 expression** on cellular proliferation and apoptosis.

Author: Mateus T Guerra, Rodrigo M Florentino... **Publish Year:** 2019

[PDF] Expression of the type 3 InsP3 receptor is a final common ...

<https://gut.bmj.com/content/gutjnl/68/9/1676.full.pdf>

hepatocytes and **liver** cancer cells, so we investigated the role of intracellular Ca^{2+} release channels in Hcc. Design **expression** analyses of the type 3 isoform of the inositol 1, 4, 5-trisphosphate **receptor** (itPr3) in human **liver** samples, **liver** cancer cells and mouse **liver** ...

Author: Mateus T Guerra, Rodrigo M Florentino... **Publish Year:** 2019

The role of inositol 1,4,5-trisphosphate receptors in the ...

<https://www.sciencedirect.com/science/article/pii/S0006291X04017747>

Oct 01, 2004 · Ca^{2+} signaling via the **inositol 1,4,5-trisphosphate receptor (InsP3R)** is a ubiquitous mechanism for regulation of **cell function**, yet very little is known about the role of the **InsP3R** in specific



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4478166>

The **type 3** isoform of the **inositol 1,4,5-trisphosphate receptor** (ITPR3) is the intracellular calcium release channel detected most frequently in cholangiocytes. ITPR3 is required for bicarbonate secretion by bile ducts, and its **expression** is reduced in intrahepatic bile ducts of patients with cholestatic disorders.

Cited by: 11

Author: Jittima Weerachayaphorn, Jittima Weerach...

Publish Year: 2015

[\[PDF\] Nonalcoholic fatty liver disease impairs expression of the ...](https://aasldpubs.onlinelibrary.wiley.com/doi/pdf/10.1002/hep.29588)

<https://aasldpubs.onlinelibrary.wiley.com/doi/pdf/10.1002/hep.29588>

Nonalcoholic Fatty Liver Disease Impairs **Expression** of the Type II **Inositol 1,4,5-Trisphosphate Receptor**
Tanaporn Khamphaya,¹ Natsasi Chukijrungrat,² Vitoon Saengsirisuwan,² Kisha A. Mitchell-Richards,
³Marie E. Robert, Albert Mennone, ⁴Meenakshisundaram Ananthanarayanan, Michael H. Nathanson, and
Jittima Weerachayaphorn^{2,4} Nonalcoholic fatty liver disease (NAFLD) is the most prevalent liver ...

Cited by: 8

Author: Tanaporn Khamphaya, Natsasi Chukijrungr...

Publish Year: 2018

[TYPE 2 INOSITOL 1,4,5-TRISPHOSPHATE RECEPTOR ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3205211)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3205211>

type 2 **inositol 1,4,5-trisphosphate receptor** modulates bile salt export pump activity in rat hepatocytes
Emma A. Kruglov , Samir Gautam , Mateus T. Guerra , and Michael H. Nathanson * Author Information:
Section of Digestive Diseases, Department of Internal Medicine, Yale University School of Medicine, New
Haven, CT 06520-8019

Cited by: 55

Author: Emma A. Kruglov, Samir Gautam, Mateus T...

Publish Year: 2011

[\(PDF\) Expression of Inositol 1,4,5-Trisphosphate Receptor ...](https://www.academia.edu/15919168/Expression_of...)

https://www.academia.edu/15919168/Expression_of...

Expression of Inositol 1,4,5-Trisphosphate Receptor Isoforms in Rat Cirrhosis JEAN-FRANC, OIS DUFOUR,
MICHAEL LU^{THI}, MARC FORESTIER, AND FABRICE MAGNINO Ca²⁺ signals mediate the hepatic effects
of numerous role.1 Numerous hormones and growth factors bind to hormones and growth factors.

[\(PDF\) Expression of inositol 1,4,5-trisphosphate receptor ...](https://www.researchgate.net/publication/12801025_Expression_of_inositol_145...)

https://www.researchgate.net/publication/12801025_Expression_of_inositol_145...

Expression of inositol 1,4,5-trisphosphate receptor isoforms in rat cirrhosis Article (PDF Available) in
Hepatology 30(4):1018-26 · November 1999 with 36 Reads How we measure 'reads'

Inositol Trisphosphate Receptor

Inositol trisphosphate receptor (InsP3R) is a membrane glycoprotein complex acting as a Ca²⁺ channel activated by inositol trisphosphate (InsP3). InsP3R is very diverse among organisms, and is necessary for the control of cellular and physiological processes including cell division, cell proliferation,

apoptosis, fertilization, development, behavior, learning and memory. Inositol triphosphate receptor represents a dominant second messenger leading to the release of Ca²⁺ from intracellular store sites. There is strong evidence suggesting that the InsP3R plays an important role in the conversion of external stimuli to intracellular Ca²⁺ signals characterized by complex patterns relative to both space and time, such as Ca²⁺ waves and oscillations.



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