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[Liver Regeneration and the Atrophy-Hypertrophy Complex - NCBI](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3036484/>

The atrophy-hypertrophy complex (AHC) is the liver's regenerative response ... The roles of apoptosis and necrosis in hepatocellular atrophy and liver ... In one series of 28 AHC cases from malignancy-induced portal vein ... Others have found that transplanted bone marrow cells can generate hepatocytes and help in liver ...

[Hepatic Regeneration - NCBI - National Institutes of Health](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3091032/>

This response to liver resection is even more remarkable when one considers that normal adult liver cells are stable with a very slow turnover rate. ... resected is by compensatory hyperplasia (and usually hypertrophy) as the missing lobes ... both the morphology and function as well as the regenerative capacity of the liver .

[New Concepts in Liver Regeneration](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3077908/>

Using mitochondrial DNA mutation tracking, this was demonstrable in the normal ... One of the key challenges facing the liver progenitor field is that many of the ... This was followed by a flurry of reports on the ability of transplanted bone ... The role of progenitor cell regeneration in normal liver physiology is still debated.

[Hyperplasia - Wikipedia](#)

<https://en.wikipedia.org/wiki/Hyperplasia>

Hyperplasia or hypergenesis, is an increase in the amount of organic tissue that results from ... Hyperplasia is different from hypertrophy in that the adaptive cell change in hypertrophy is ... This is what makes living-donor liver transplants possible. ... the number of muscle fibers



31331-Review
BY FABIO MARONGIU

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Name of journal: World Journal of Gastroenterology

ESPS Manuscript NO: 31331

Columns: ORIGINAL ARTICLE

Basic Study

Hyperplasia *vs* hypertrophy in tissue regeneration after extensive liver resection

Fabio Marongiu, Michela Marongiu, Antonella Contini, Monica Serra, Erika Cadoni,
Riccardo Murgia and Ezio Laconi

Abstract

AIM

To address to what extent hypertrophy and hyperplasia contribute to liver mass
restoration after major tissue loss

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Hyperplasia vs hypertrophy in tissue regeneration after extensive liver resectio

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27 Jan 2009 ... After extended resection, liver regeneration was achieved by an extensive and significant hyperplasia of hepatocytes within the preexisting ... regeneration is due to hypertrophy or to hyperplasia of the remnant liver tissue after ...

[Hepatic Regeneration - NCBI - National Institutes of Health](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3091032/>

Regrowth after one or more liver lobes have been resected is by compensatory hyperplasia (and usually hypertrophy).as the missing ... than liver regrowth after resection, but has not been nearly as extensively studied. hour remnants and was highly significant in tissues that had been regenerating for 72 hours (Figure 1).

[Liver Regeneration - NCBI - National Institutes of Health](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2701258/>

Liver regeneration after partial hepatectomy is a very complex and ... In situations when hepatocytes or biliary cells are blocked from regeneration, these cell types can ... The process, in rats and mice, is complete within 5–7 days after surgery. ... In a typical wound healing scenario, the injury to the tissue results in disruption ...

[Hyperplasia - Humpath.com - Human pathology](#)

www.humpath.com/spip.php?article4630 ▼

18 Nov 2004 ... Although hyperplasia and hypertrophy are two distinct processes, frequently both ... which increases tissue mass after damage or partial resection. ... stimulate proliferation of residual liver cells and regeneration of the liver.

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Hyperplasia - Wikipedia

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Hyperplasia or hypergenesis, is an increase in the amount of organic tissue that results from ...

Sometimes cells may also be increased in size (hypertrophy). ... Compensatory liver hyperplasia –

The liver undergoes cellular division after acute ... the liver can be acutely damaged or resected with