

MICROSCOPIC LIVER LOBULE ANATOMY

[Illustration: Hexagonal Hepatic Lobule Structure]

STRUCTURE	FUNCTION & DESCRIPTION
Central Vein	Located at the core of each lobule; collects blood from sinusoids to exit via hepatic veins.
Portal Triad	Groupings at the lobule vertices containing the Hepatic Artery, Portal Vein, and Bile Duct.
Hepatocytes	Functional cells arranged in radiating plates; responsible for metabolism and bile production.
Sinusoids	Highly permeable capillaries that allow blood to flow past hepatocytes for filtration.
Kupffer Cells	Specialized macrophages within sinusoids that remove debris and old red blood cells.
Bile Canaliculi	Small channels that collect bile secreted by hepatocytes, leading toward the bile ducts.

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