

	Membrane surface in proportion to total hepatocyte membrane surface	Proportion of hepatocyte cell volume	Number per hepatocyte	Function
1. Rough endoplasmic reticulum (RER)	35%	13%	1	Synthesis of proteins, glucose-6-phosphatase, triglycerides, coagulant factors, <i>etc.</i>
2. Smooth endoplasmic reticulum (SER)	16%	7,7%]	1	Biotransformation; synthesis of steroid hormones, phospholipids, bilirubin conjugation, cholesterol, bile acids, glucose metabolism, <i>etc.</i>
3. Golgi apparatus	7%			
4. Mitochondria	39%	18–22%	1,700–2,200	Protein secretion, haem synthesis, transport and degradation functions, cellular energy generation (ATP), oxidative phosphorylation, urea synthesis, gluconeogenesis, liponeogenesis, ketogenesis, β -oxidation of fatty acids, citric acid cycle, respiratory chain, <i>etc.</i>
5. Lysosomes	0.4%	2%	200–300	Degradation of “foreign” macromolecules in the cell by means of hydrolytic enzymes, deposition of copper, ferritin, lipofuscin, bile pigment, <i>etc.</i>
6. Peroxisomes	0.4%	1,3%	400–1,000	Oxidative degradation processes by means of peroxidases, catalase, xanthine oxidase, degradation of long-chain fatty acids, antioxidative function, bile acid synthesis, alcohol metabolism, purine metabolism, <i>etc.</i>