

TABLE VI

*Ultrastructural Composition of Rat Liver Parenchymal Cells Calculated per Average Cell (Nucleus)*

	Periph- eral cells	Mid- zonal cells	Central cells
Volume ( $\mu^3$ )			
Total cytoplasm	5100	5100	5100
Mitochondria	1010	974	658
Envelope	139	157	151
Cristae	257	269	163
Matrix	614	548	344
Peroxisomes	71	71	107
Lysosomes	15	15	20
Lipid	15	10	10
Glycogen	984	887	857
Other	3000	3140	3450
Membrane area ( $\mu^2$ )			
Smooth endoplasmic reticulum*	15700	16900	21600
Rough endoplasmic reticulum*	24900	25400	26700
Mitochondrial envelope	7720	8720	8420
Mitochondrial cristae*	32400	35500	23900
Number of			
Mitochondria	1060	1300	1600
Peroxisomes	440	620	810

\* These figures, which are obtained by multiplying the measured membrane area per unit volume by the average volume per cell, have been further increased by 50% to correct for the effect of oblique sectioning on the observability of membrane profiles (51).