

A Guided Tour of the Living Cell Volume 2



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One of the most conspicuous features of many eukaryotic cells is the high degree of development of their cyto-membrane system. In some cells the total surface area of this system may exceed 0.1 mm^2 which may not seem like much until you adjust it to our millionfold magnification. Then you find that it means dividing up the space of a large auditorium with more than one million square feet of partitions. Moving through such an auditorium may be a problem as indeed it is in the ER-rich areas of the cell where flattened cisternae may be packed so close together as to leave only very narrow passages between them. Fortunately the partitions are flexible and can be forced apart fairly easily as shown by the occasional mitochondrion or other cytoplasmic granule cisternae found nestling between ER Membranes as

Organelles
During the first part of our tour we were given plenty of proof that these membranes are not mere partitions. But relatively little of what they do and especially of how they do it could be discerned on their trans face. And so our descriptions had to remain largely phenomenological. Now that we can inspect the cis face of the membranes we get a much clearer view of the number and variety of active systems that are compressed in these tenuous films. Even more important we can try to find out how they operate as their works are largely exposed on the side we are facing which is where they are supplied with substrates receive energy interact with

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