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apparatus. (a) Proteins synthesized in the endoplasmic reticulum are transported into the Golgi for glycosylation and packaging for export. The Golgi apparatus consists of stacks, or cisternae, that contain the enzymes for glycan synthesis. Assembly and processing of the chains may occur in a successive manner. Glycosylated proteins are packed in secretory vesicles and

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localizations, regulation and functions. a | The cytoplasmic leaflets of cellular membranes are defined by specific combinations of RAB GTPases and phosphoinositides that are under spatiotemporal control of enzymatic regulators. For clarity, only a subset of RAB GTPases and distinct subpools of phosphoinositides are shown. Sites of alternative RAB and phosphoinositide distributions typically of lower abundance, including those on trafficking vesicles, endoplasmic reticulum (ER) and the nucleus, are not

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