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Schematic representation of possible mechanisms of aminoglycosides (AGs)-induced nephrotoxicity and ototoxicity. The schematic diagram mainly includes three parts: (1) AGs are predominantly distributed in the mitochondria of renal tubular cells and inner ear hair cell-like cells; (2) AGs inhibit mitochondrial electron transport chain (ETC) complexes I, IV, and V; and (3) AGs inhibit the PGC-1 α -NRF1-TFAM pathway, which may repress mitochondrial biosynthesis. See the article in pages 866–878.

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