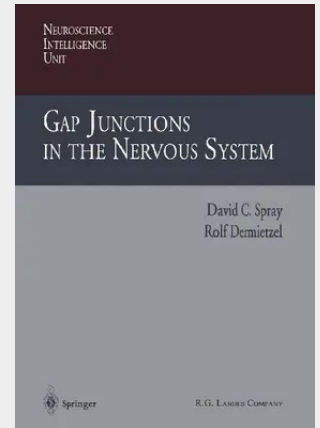


Gap Junctions in the Nervous System

A Cytoplasm Connexon or Hemichannel Cytoplasm external loop I - P. M. N-Terminus Fig. 1. 1. Topology of gap junction channels. (A) Gap junction channels, extending from the cytoplasm of one cell to the cytoplasm of another, are formed by two connexons or hemichannels connected across extracellular space. (B) Each connexon is formed from six connexin subunits, each having four membrane-spanning domains and both amino and carboxyl termini within the cytoplasm. External/loops (I and II) are believed to provide the high affinity interactions between the hemichannels. 4 Gap junctions in the Nervous System P-region of voltage sensitive nonjunctional molecules; these contributed disulfide 9 channels. And Delmar's group has shown bridges are presumably involved in intracellular evidence that intracellular acidified connexin and inter-EL loop tertiary structure may result in a conformational change. An old observation that should be changed analogous to the ball and chain repeated stoichiometrically with modern techniques is that gap junction channels model of inactivation of voltage gated ionic can be split into connexons or hemichannels, whereby the carboxyl terminal channels using hyperosmotic disaccharide portion of connexin43 binds to CL, closing 23 solutions again implying that linkage is the channel. Higher order structure of the channel not covalent. is believed to consist of six connexins forming the hemichannel or connexon in a 3.

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