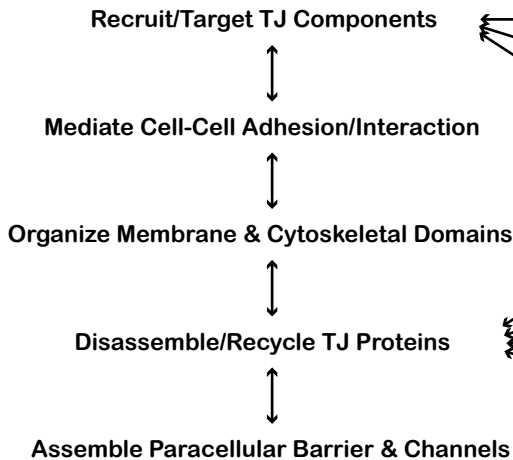


A

Cellular Function Category	Specialized Function Category	Structures Found at Tight Junction Domain	Confirmed Localization at Tight Junction
Synaptic Function	Synaptic Transmission Neurotransmitter Release	Small vesicles fusing/budding	Presynaptic: CPalpha1A, synaptotagmin VII, Hsc70, EAAT1, Piccolo, Rabaptin-5 Postsynaptic: GluR1, NMDAzeta1, mGluR1, mGluR5, Homer, Kv2.1, GRIP1, GKAP
Signaling Cell Growth	Differentiation	Cytoplasmic Plaque	Erk-3, A-Raf, Dbl, PI3K p110 beta
Signaling	Differentiation Morphogenesis Cell Fate	Extracellular Pockets	FGF3, FGF4
Vesicular trafficking	Secretion Synaptogenesis	Intracellular Membranes & Associated dense particles	14-3-3 epsilon, 14-3-3 gamma, 14-3-3 zeta, NSF, Calpain 10
Transcription Translation	Differentiation Cell Fate	Cytoplasmic Plaque Golgi Apparatus	Bcl-6, L-myc, STAT2, Elongin A, Hnrnp A1
Endocytosis Exocytosis	Membrane Rheology	Endocytosis of Tight Junction Double Membranes	Not Done
Cytoskeleton	Morphogenesis Neurite outgrowth Tight Junction Barrier	Cytoskeletal Attachments	Not Done
Adhesion	Tight Junction Barrier Defense/Immune	Membrane kisses	Not Done
Translation machinery	Secretion Synaptic Plasticity	Satellite Golgi Apparatus	Not Done

B

### To Control TJ Formation



### To Regulate TJ Function

