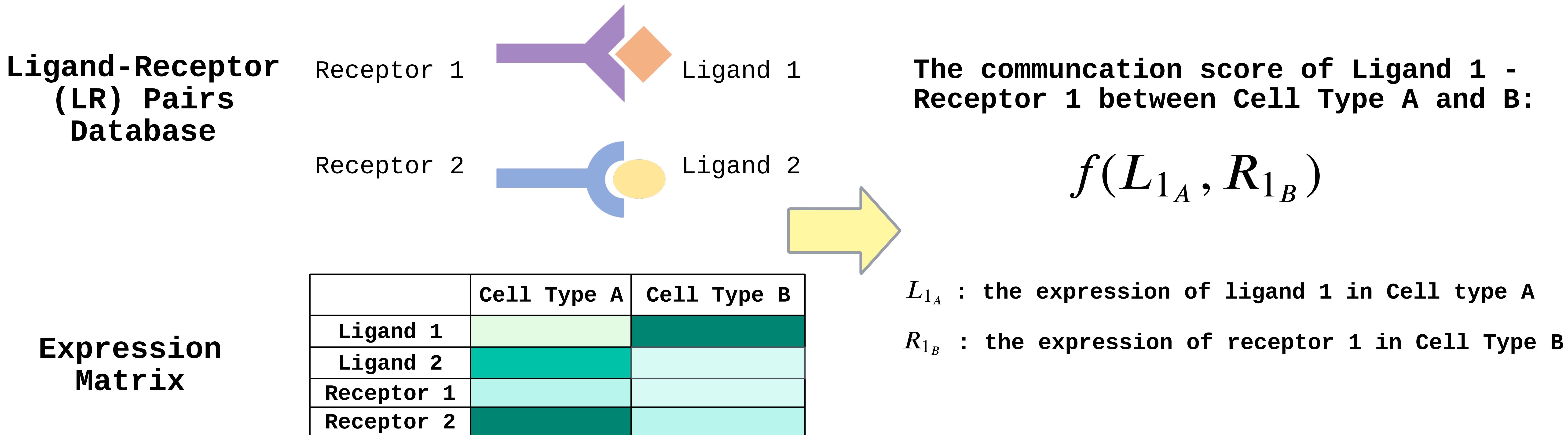
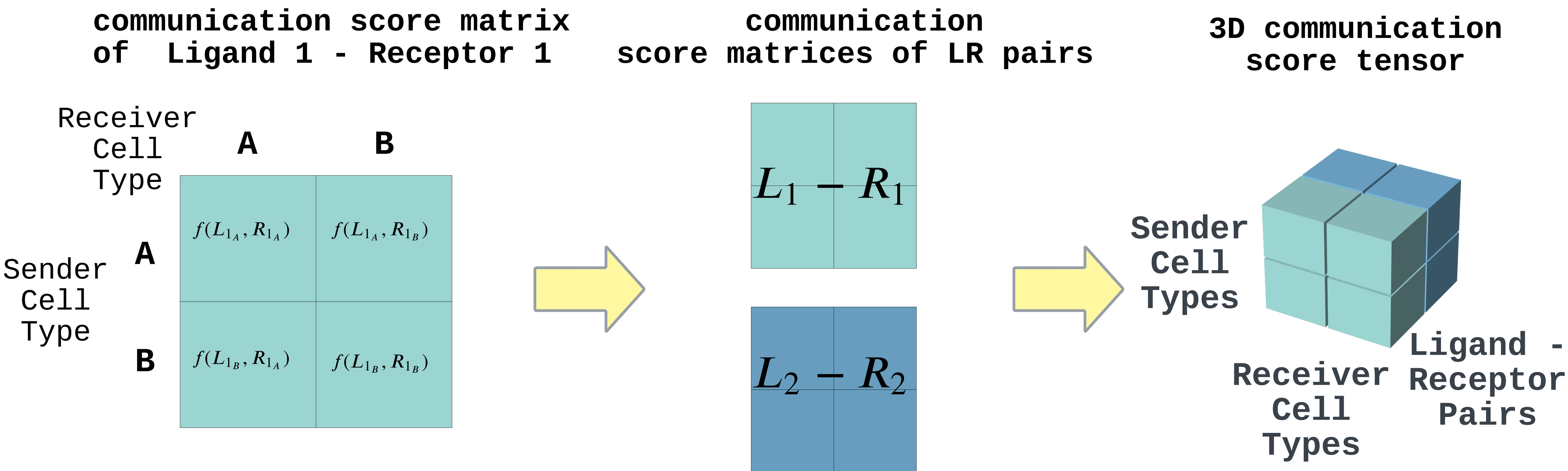


A. Calculate communication score of one ligand-receptor pair



B. Construct 3D communication score tensor for one sample



C. Supervised tensor decomposition

