

## Accepted Manuscript

Title: Hetero-multivalent Binding of Cholera Toxin Subunit B with Glycolipid Mixtures

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# Hetero-multivalent Binding of Cholera Toxin Subunit B with Glycolipid Mixtures

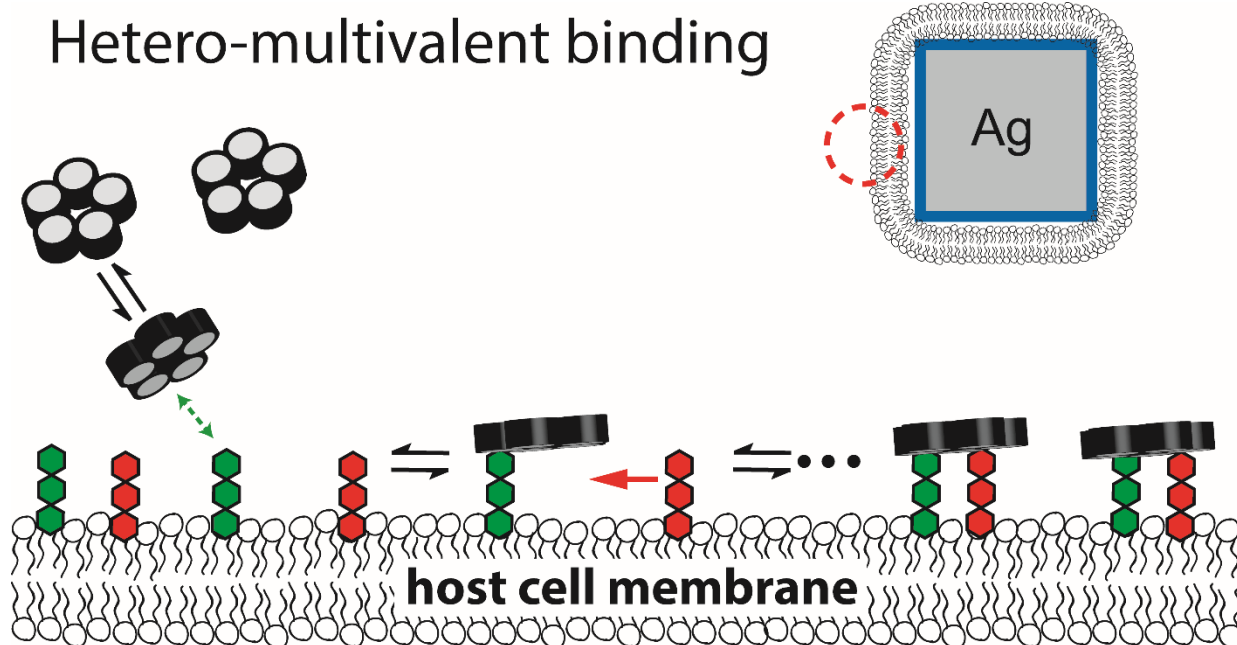
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Graphical Abstract



Highlights

- A weak receptor can bind to CTB when present with a high-affinity receptor.
- Reduced dimensionality of receptor diffusion causes the hetero-multivalent binding.
- Fluidity of membrane plays an essential role in multivalent binding.
- A new ligand-receptor binding assay is required to explore the hetero-multivalency.
- A new protocol is developed to efficiently screen receptor candidates.

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