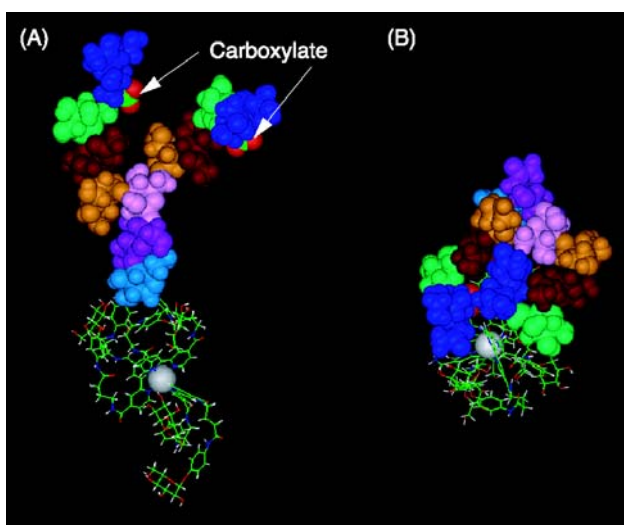


## Ruthenium complexes carrying a disialo complex-type oligosaccharide: enzymatic synthesis and its application to a luminescent probe to detect influenza viruses

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**Molecular dynamics (MD) calculations of YDS-adducts.** MD calculations of YDS-adducts were carried out using InsightII/Discover program and esff force field (Temp. = 300 K and  $\epsilon = 80.0$ ). After 500 ps equilibration, 500 ps dynamics was carried out. Figure S1 shows the most stable conformations of YDS<sub>1</sub>- $\Delta$ Ru during dynamics step. The complex core is highly shielded from outer space by the densely packed saccharide appendages including YDS.



**Fig. S1** The (A) initial and (B) most stable conformation of YDS- $\Delta$ Ru. The each saccharide residues in YDS-moieties are highlighted in CPK model.