Metallo-Dynamers : Neutral Dynamic Metallosupramolecular Polymers displaying transformation of mechanical and optical properties on constitutional exchange.

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Figure S1 – Structures of model neutral zinc complex 1 and 2

The model neutral homoligand complex 1 was formed by self-assembly of ligand subunits and metal ions, stirring 2 eq. of pyridine-2-carboxyaldehyde and 4-chlorobenzoic hydrazide with 1 eq. of Zn(SO$_4$)$_2$·7H$_2$O in the presence of Na$_2$CO$_3$ at room temperature. Its solid state structure was confirmed by X-ray crystallography.

The model neutral heteroligand complex 2 was synthesized by stirring equal equiv. of quinoline derived hydrazone ligand, 4-decyloxypyridine hydrazone ligand and Zn(SO$_4$)$_2$·7H$_2$O in the presence of Na$_2$CO$_3$ at room temperature.

The structural details of both complexes will be published in a full paper.