Supporting Information

After our paper was accepted we decided to update our results to the most recent CSD, so we found that the most popular motif in Mn$_5$ chemistry consists of 12 examples, ranked among the six most frequent motifs found in our survey. It has the $\text{2,4M5-1}$ topology that can be described by two triangles sharing one node (Figure S1). The earliest example found in our survey is formulated as $[\text{Mn}^{\text{II}}_5(\text{L})_2(\text{OAc})_2(\text{ClO}_4)_2](\text{ClO}_4)_2$ (TEZPOD), where H$_2$L is a macrocyclic ligand formed by a [2 + 2] condensation of 2,6-diacetylpyridine and 1,3-diaminopropan-2-ol. Magnetic studies of this compound revealed that the complex exhibits weak antiferromagnetism.