Electronic supplementary information

Structural motif-dependent magnetic diversity observed in three-dimensional tetrazolyl-based MMOFs: synthesis, structures and magnetism

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Fig. S1 Superexchange pathways within the 2D layer of 2.
**Fig. S2** Superexchange pathways within the 1D ribbon of 3.
Fig. S3 TG curves for 1–3.
Fig. S4 Simulated (violet) and experimental (blue) X-ray powder diffraction patterns for 1–3.
Fig. S5 Temperature dependence of $\chi_M^{-1}$ for 1. The solid line represents the best fit to Curie-Weiss law.
Fig. S6 Temperature dependence of FC and ZFC magnetizations for 1.
Fig. S7 Temperature dependence of $\chi_M^{-1}$ for 2. The solid line represents the best fit to Curie-Weiss law.
Fig. S8 The dM/dH derivative curve for 2.
Fig. S9 The FC and ZFC magnetizations performed at $H_{dc} = 50.0$ Oe for 2.
Fig. S10 Temperature dependence of $\chi_M^{-1}$ for 3. The solid line represents the best fit to Curie-Weiss law.
Fig. S11 The field dependence of the magnetization for 3 at 2.0 K.