Electronic Supplementary Information for Dalton Transactions

Electronic Supplementary Information (ESI)

Self-assembly of the unique heterotrimetallic Cu/Co/M complexes possessing triangular antiferromagnetic $\{Cu_2CoPb\}_2$ and linear ferromagnetic $\{Cu_2CoCd_2\}$ cores

Dmytro S. Nesterov[a], Vladimir N. Kokozay*[a], Brian W. Skelton[b], Julia Jezierska[c] and Andrew Ozarowski[d]

[a] *Depart. Inorg. Chemistry, National Taras Shevchenko Univ., Volodymyrska str. 64, Kyiv 01033, Ukraine. Fax: +38044 2862467; E-mail: kokozay@univ.kiev.ua*

[b] *School of Biomedical, Biomolecular and Chemical Sciences, University of Western Australia, Crawley, Western Australia 6009, Australia*

[c] *Faculty of Chemistry, University of Wroclaw, 14 Joliot-Curie Str., 50-383 Wroclaw, Poland*

[d] *National High Magnetic Field Laboratory, Florida State University, 1800 E. Paul Dirac Drive, Tallahassee, Florida 32310, USA*

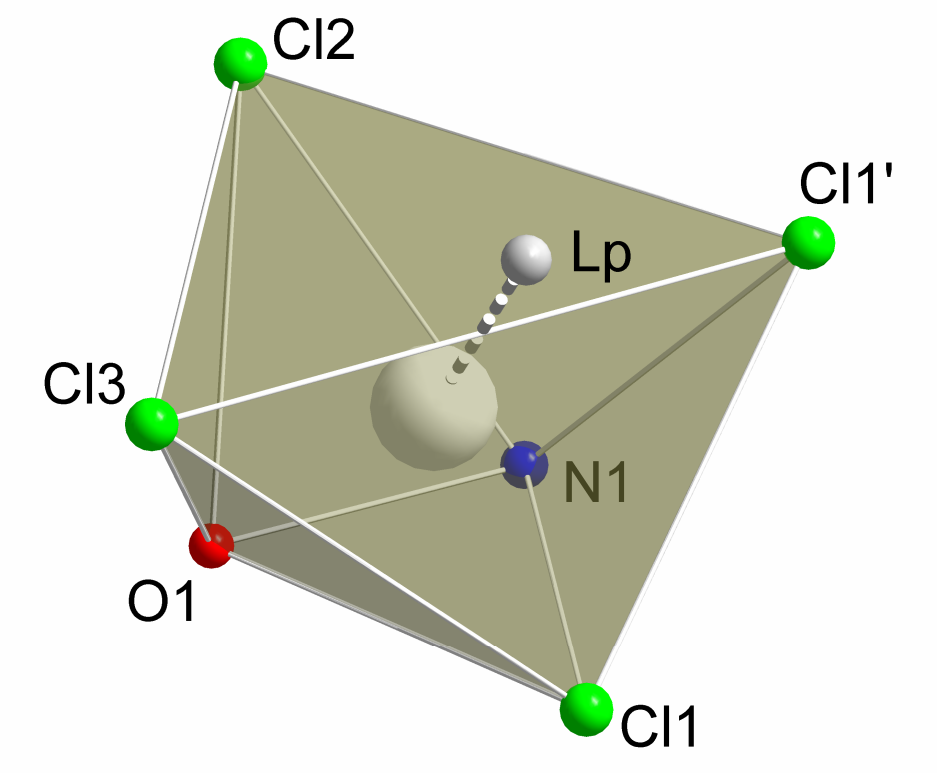

Figure S1. The polyhedral representation of Pb arrangement in **1**.

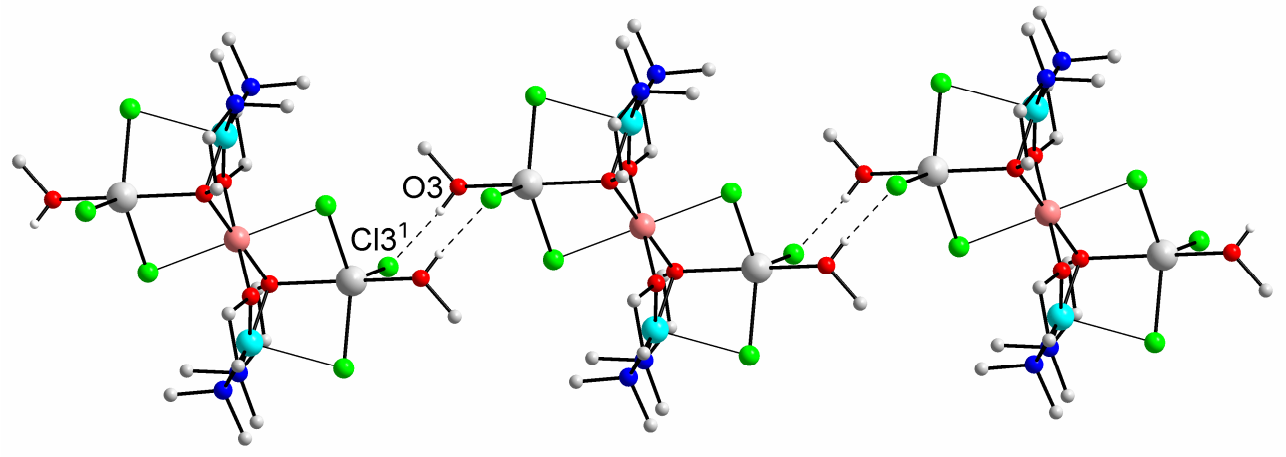

Figure S2. The hydrogen-bonding scheme of **2** (the hydrogen atoms from the CH_2 groups are omitted for clarity), symmetry transformation [1] is *1 – x, 1 – y, –z*. Cd grey, Cu light-blue, Co pink, O red, N blue, C light-grey, H white.