Synthetic strategy towards halometallates with imidazo[1,5-*a*]pyridinium-based counterion: structural chemistry of low-dimensional Zn(II) and Pb(II) hybrids. *Meso* structure of a Pd(II) by-product enforced by transient bis-hemiaminal

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Supplementary data







Fig. S3 IR spectrum of [PdClL'']Cl (3a).



Fig. S4 ¹H NMR spectrum at 400 MHz (r.t., DMSO- d_6) of $[L']_2[ZnCl_4]$ (**1**) in the 10.5–3.5 ppm range.



Fig. S5 ¹H NMR spectrum at 400 MHz (r.t., DMSO- d_6) of $[L']_n[PbCl_3]_{n\infty}$ (**2**) in the 10.5–3.5 ppm range.



Fig. S6 ¹H NMR (top) and ¹³C NMR spectra (bottom) at 400 MHz (r.t., DMSO- d_6) of **3a** showing superposition of the signals of [PdClL'']Cl (**3**) and Pd(L_{Schiff})Cl₂ (NEKYUZ).