Electronic Supplementary Material (ESI) for Dalton Transactions

Does Cytotoxicity of Metallointercalators Correlate with Cellular Uptake or DNA Affinity?

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SUPPLEMENTARY MATERIAL

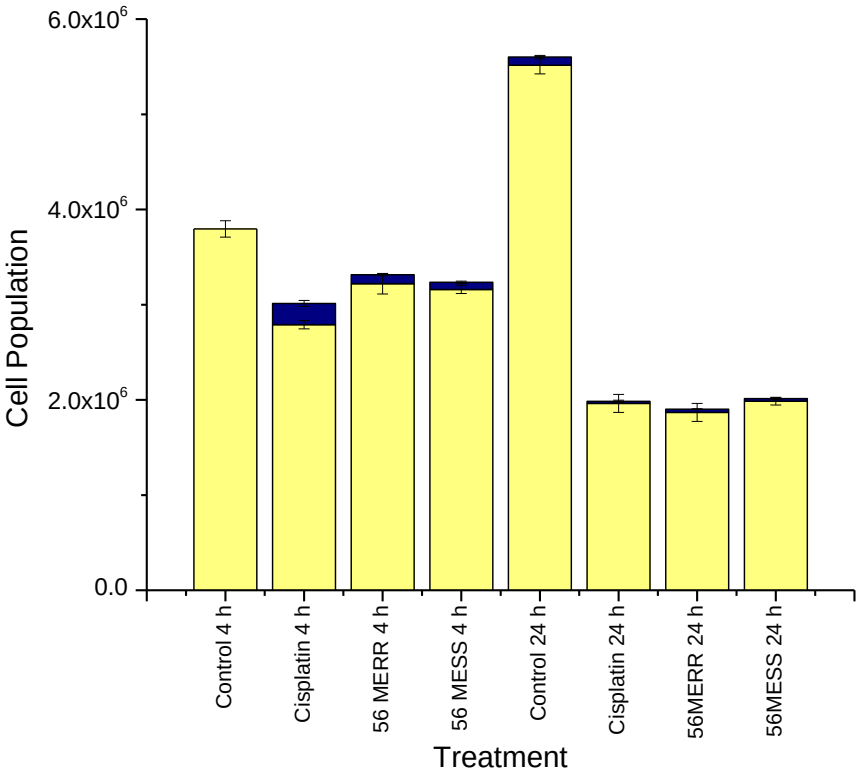

Figure S1. Cell populations obtained from trypan blue exclusion assays for control and Pt-treated cells (500 μM Pt; 4 or 24 h (as specified)) that were analysed by GFAAS. Yellow columns represent cells that have excluded trypan blue, blue columns represent cells that showed trypan blue uptake. Results are represented as the mean and standard deviation of triplicate samples.

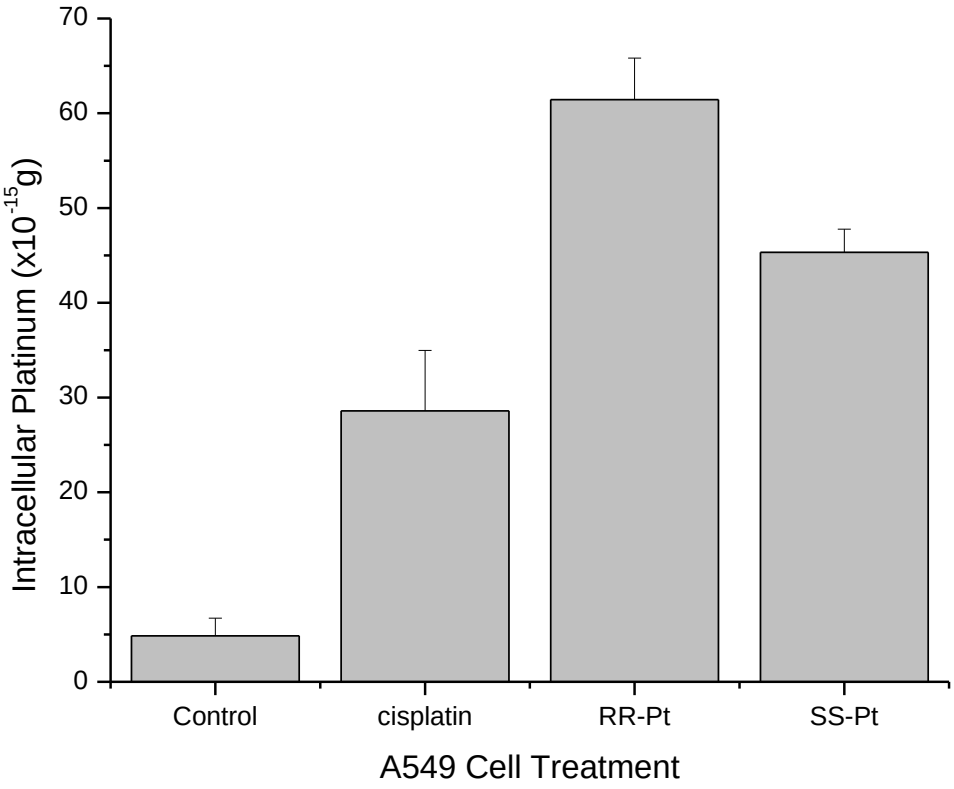

Figure S2. Platinum quantification obtained from microprobe SRXRF analysis of freeze-dried A549 cells following no treatment (control) or exposure to the specified Pt complexes (1 mM, 4 h). Columns represent the mean values and the error bars represent the standard deviation from a sample size of 4 individual cells.

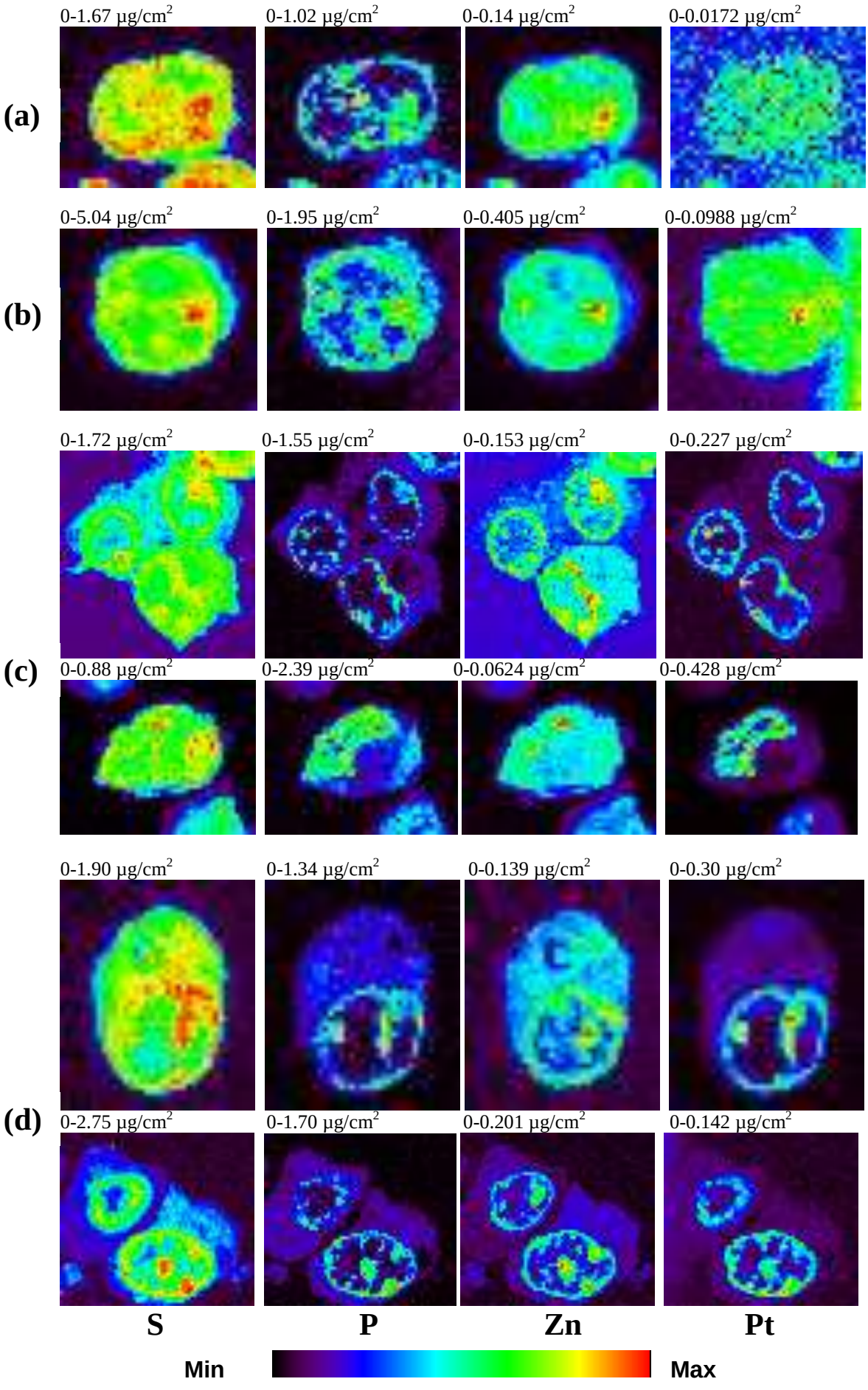

Figure S3. Microprobe SRXRF elemental maps for A549 cells following treatment (4 h) with: (a) cell media only; (b) cisplatin; (c) [56MERR] and (d) [56MESS]. The elements are specified at the bottom of each column. Operating conditions include: Beam energy = 11.9 keV, Beam size = 0.2 × 0.15 μm; Stepsize = 0.3 μm; Dwell time = 3s/pt and Scan dimensions (H × V) = (a) 12 × 10 μm; (b) 11 × 9 μm; (c) 35 × 20 μm (top) and 14 × 11μm (below); (d) 13 × 13 μm (top) and 19 × 17 μm (below).

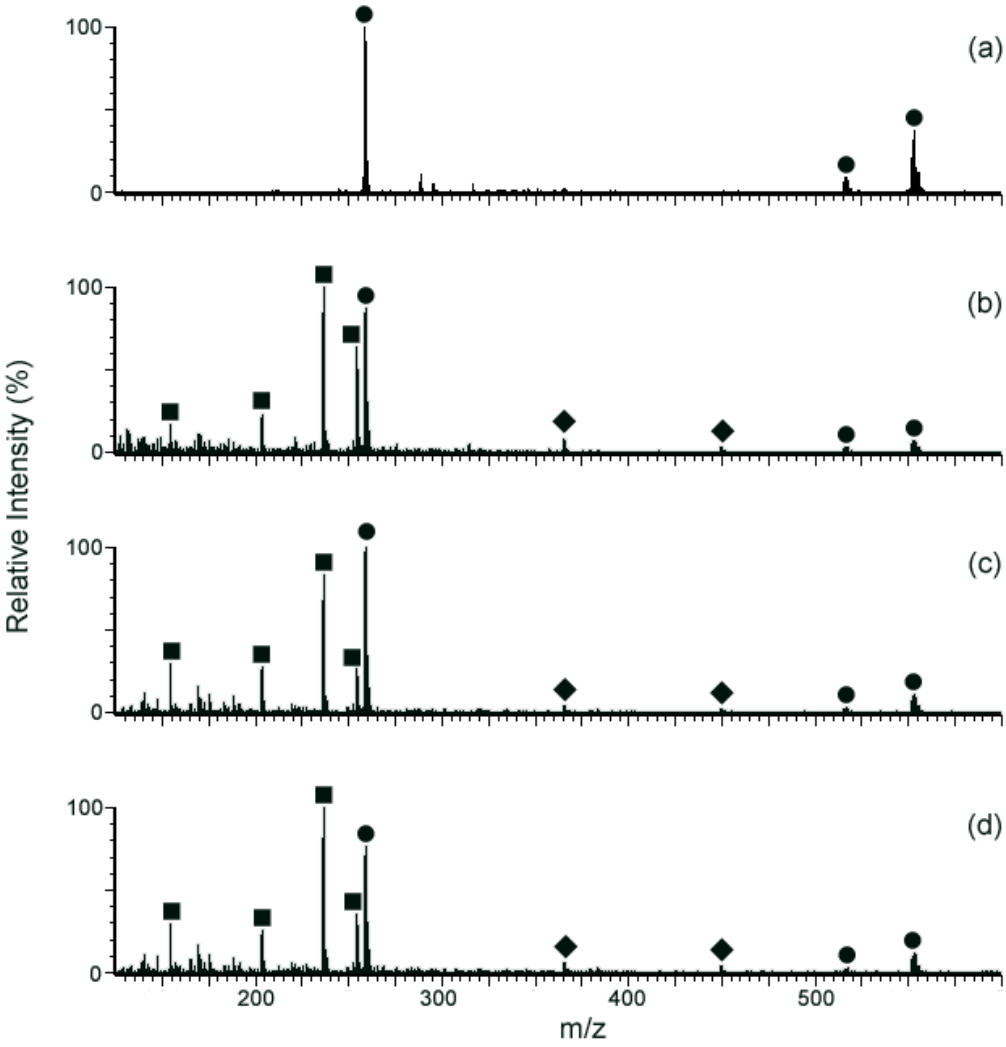

Figure S4 Negative ion ESI mass spectra of 56MESS and DMEM cell media with no added FBS. (a) 56MESS in 50:50 MeOH; (b) 56MESS in DMEM at 0 h; (c) 56MESS in DMEM at 2 h; (d) 56MESS in DMEM at 4 h. ● = intact 56MESS; ■ = media component; ◆ = 56MESS + media component.