

Figure S6: **Representative structures of the clusters for different MD simulations of the free A-site RNA**, superposed with regard to phosphorous atoms. The structures from each cluster are colored differently: 1 — green, 2 — blue, 3 — red, 4 — yellow, 5 — cyan (see Table S1 for the cluster sizes). Adenines A1492, A1493 and A1408 are shown in atomic detail.