

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: MD simulation of the fusion process of two droplets. We used HPS (for intrinsically disordered regions) and AICG2+ (for α -helix) models. The system consists of 1000 TDP-43-LCD chains and is simulated at 280K. The movie corresponds to 10^8 steps. The simulation box size is $1000\text{\AA} \times 1000\text{\AA} \times 1500\text{\AA}$ with periodic boundary conditions. Chains from the two initial droplets are colored red and blue, respectively. See Figure 3 for more quantitative analysis results.

File Name: Supplementary Movie 2

Description: MD simulations of multiple TDP-43-LCD droplets. The system comprises 16,657 proteins and is simulated at 290K using the HPS (for intrinsically disordered regions) and AICG2+ (for α -helix) models. The simulation box size is $2087\text{\AA} \times 2067\text{\AA} \times 2077\text{\AA}$ with periodic boundary conditions. The movie corresponds to 12.25×10^8 MD steps. Chains are colored based on clustering results for each frame. See Figure 4 for more quantitative analysis results.