

SUPPLEMENTARY MOVIE LEGENDS

Supplementary Movie 1 - Tracking of circ-HDGFRP3 and DCP1A in a living cell.

Circ-HDGFRP3 and DCP1A particles imaged over time (duration 15 min; interval ~11sec). Spots and trajectories detected with TrackMate Plug-in on Fiji-ImageJ are overlaid respectively as magenta (HDGFRP3) and green (DCP1A) circles and lines. Scale bar corresponds to 5 μm .

Supplementary Movie 2 - circ-HDGFRP3 persistently interacts with p-bodies upon oxidative stress.

Representative cell expressing both circ-HDGFRP3 labelled with HBC620 (magenta) and GFP-DCP1A (green). Time 00:00:00 corresponds to 0.5 mM NaAsO₂ administration. Interaction between circ-HDGFRP3 and p-bodies can be followed (duration 1:04 h; interval 4 min). Scale bar corresponds to 5 μm .

Supplementary Movie 3 - Tracking of circ-HDGFRP3 in FUS^{P525L} aggregates in a living cell.

Circ-HDGFRP3 and FUS^{P525L} particles interacting over time (duration 11 min; interval ~12sec). Spots and trajectories detected with TrackMate Plug-in on Fiji-ImageJ are overlaid respectively as magenta (circ-HDGFRP3) and green (FUS^{P525L}) circles and lines. Scale bar corresponds to 5 μm .

Supplementary Movie 4 - Tracking of ROMO1 and FUS^{P525L} in a living cell.

ROMO1 and FUS^{P525L} particles imaged over time (duration 10 min; interval ~12sec). Spots and trajectories detected with TrackMate Plug-in on Fiji-ImageJ are overlaid respectively as orange (ROMO1) and green (FUS^{P525L}) circles and lines. Scale bar corresponds to 5 μm .

Supplementary Movie 5 - nHOTAIRM1 is recruited in physiological G3BP1-marked SG.

Representative cell expressing both nHOTAIRM1 labelled with HBC620 (magenta) and GFP-G3BP1 (green). Time 00:00:00 corresponds to 0.5 mM NaAsO₂ administration and formation of SG can be followed (duration 1:20 h; interval 1 min). Scale bar corresponds to 5 μm .

Supplementary Movie 6 - nHOTAIRM1 is recruited in pathological FUS^{P525L}-marked aggregates.

Representative cell expressing both HOTAIRM1 labelled with HBC620 (magenta) and GFP-FUS^{P525L} (green). Time 00:00:00 corresponds to 0.5 mM NaAsO₂ administration and formation of SG can be followed (duration 1h; interval 5 min). Scale bar corresponds to 5 μm .