

Note:

These figures are supplemental to the manuscript from *Herschke et al.* entitled « **Cell-cell fusion induced by measles virus amplifies the type I interferon response** » published in *Journal of Virology*. Their numbering follows that of the manuscript. Material and methods are described in the manuscript.

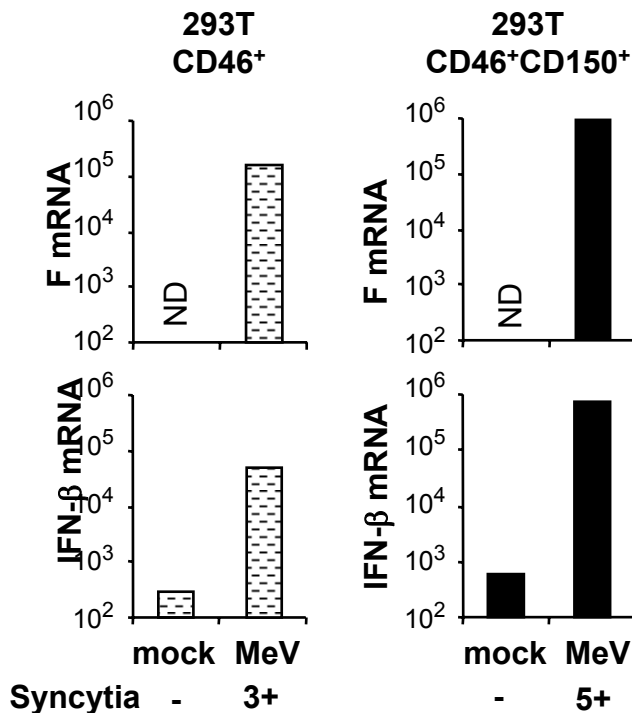


Figure S1. Relationship between MeV-induced syncytia and IFN-β gene induction. (A) Syncytia were scored as symbol (-) for no syncytium, and (+) to (5+) graded by integrating both the number and the size of alive adherent syncytia plus floating dead syncytia after staining with May-Grunwald Giemsa. Accumulation of MeV-F (upper) and IFN-β (lower) transcripts at 30 h.p.i. in 293T/CD46+ (dotted columns) and 293T/CD46+CD150+ (black columns) cells infected with MeV. Data are from one representative experiment out of three. ND: not detected.

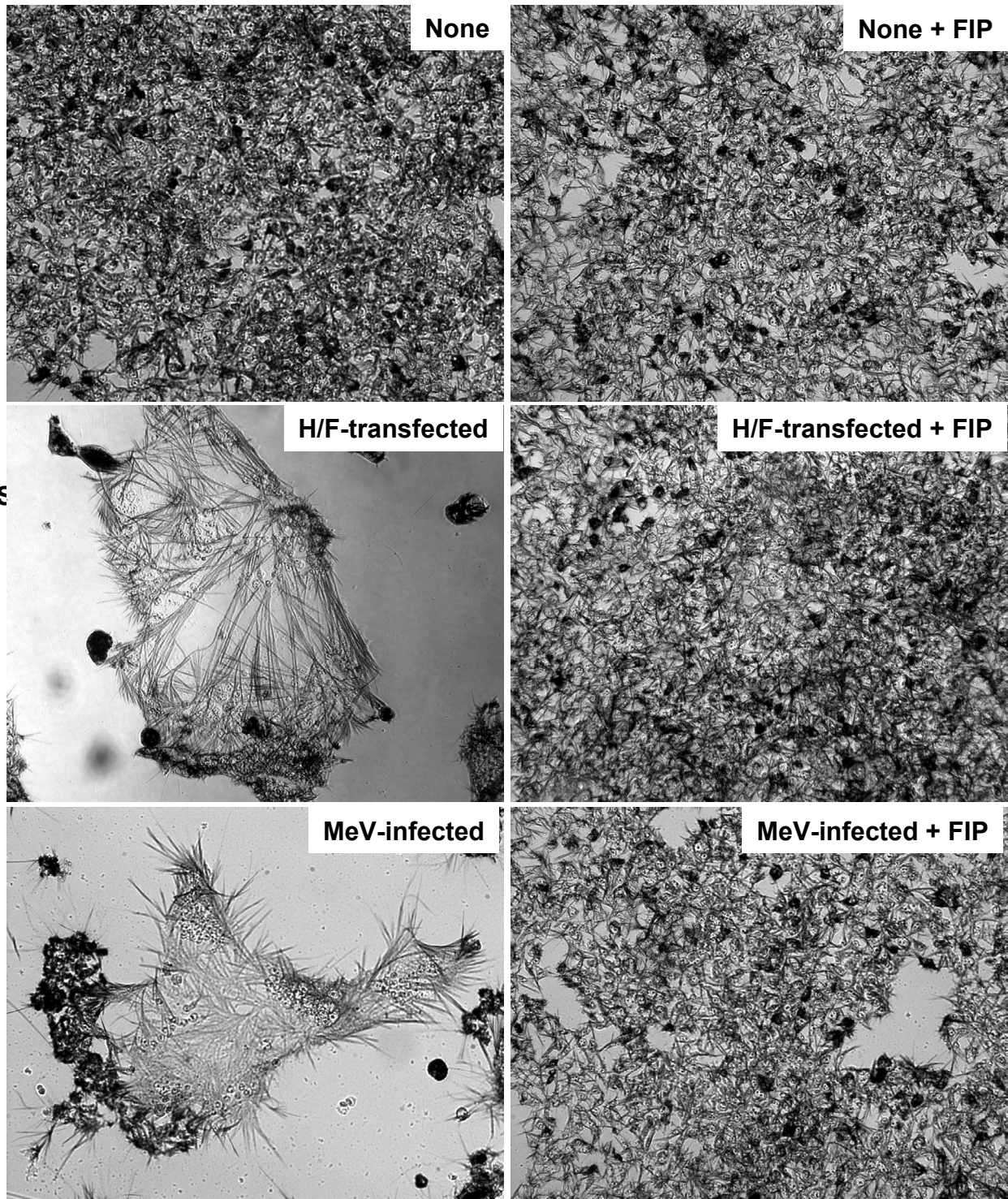


Figure S3. Mitochondrial activity of syncytia determined by MTT conversion into formazan. Cell-to-cell fusion was induced by either MeV-infected or H^EdF-transfected 293T/CD46⁺ cells. The infected and transfected cells were treated or not with 10 and 50 μ g/ml of FIP, respectively. Micrographs of formazan crystals observed at 30 hours under a light microscope (Leica DM IRB microscope; original magnification x100).

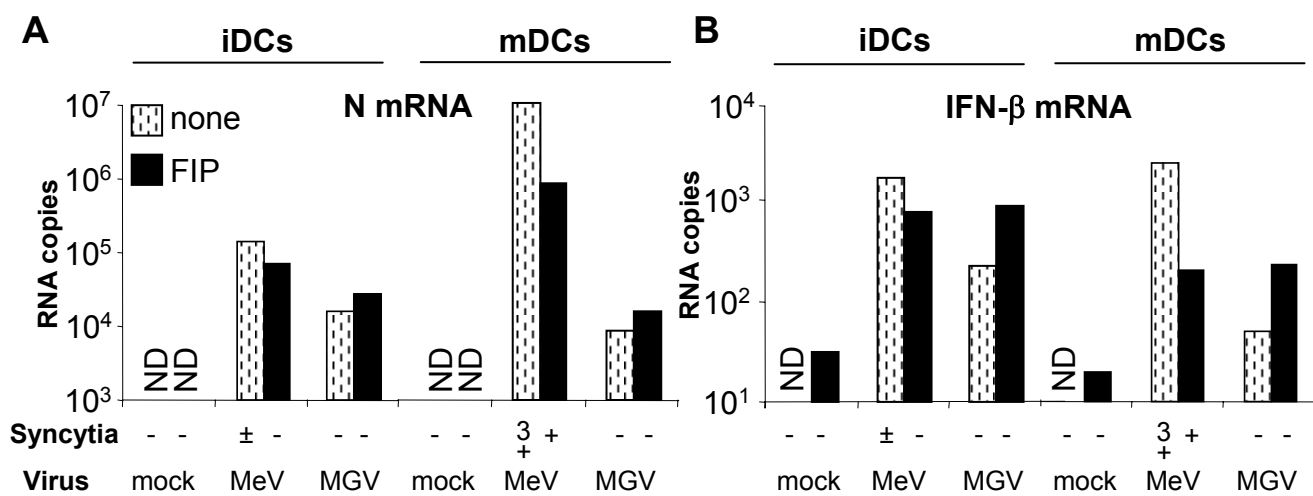


Figure S6. Non fusogenic MGV induces lower IFN-β response both in iDC and mDC than fusogenic MeV strain. iDC and mDC were mock infected or infected with MeV or recombinant chimerical MGV at MOI of 0.1, in the absence (dotted columns) or the presence (black columns) of FIP (100 μg/ml). Syncytia formation was scored for each condition as described in Fig. S1. Accumulation of (A) MeV-N and (B) IFN-β transcripts in iDC and mDC cultures was measured at 3 d.p.i. ND: not detected.

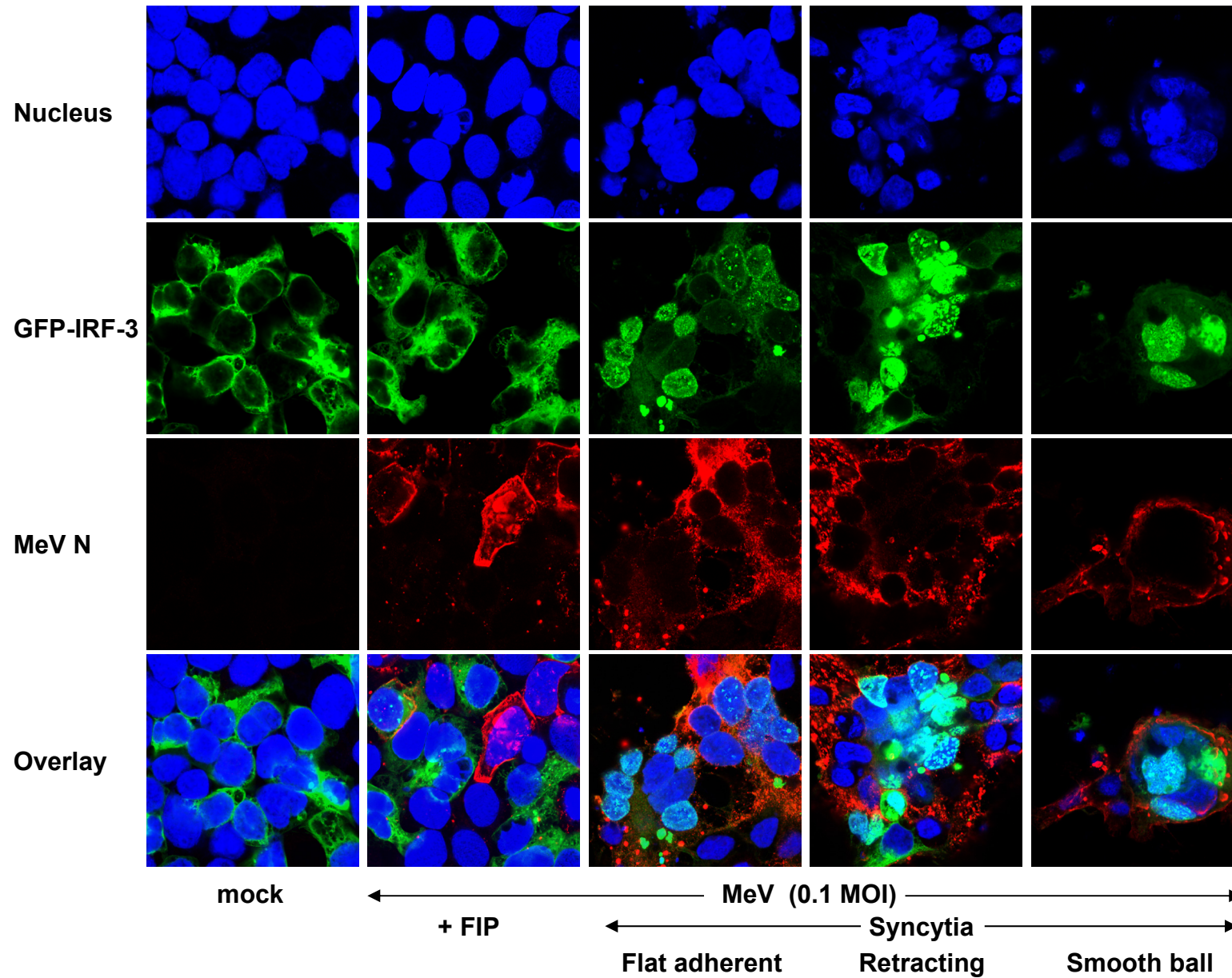


Figure S7B. Nuclear translocation of IRF-3 can be triggered within MeV-induced syncytia. Three-color single labeling and overlays of confocal images showing the distribution of GFP-IRF-3 (green), N (red), nuclei (blue) in 293T/CD46⁺ cells infected or not with MOI of 0.1 MeV in the presence or absence of FIP and transfected with GFP-IRF-3.