## **Supplementary Materials**



**Figure S1.** Graphic description of the EVs isolation by ultracentrifugation. NTA = Nanoparticles tracking analysis; TEM = Transmission electron microscopy; rpm = revolutions per minute.



**Figure S2.** Nanoparticles Tracking Analysis (NTA) (**A**) Description of the evaluated and optimal conditions for nanoparticles quantification by NTA. (**B**) NTA quality control based on the optimal conditions established. Histograms are the representative of three independent experiments using polystyrene beads (100 and 200 nm) diluted at 1:500. (**C**) NTA of purified ZIKV stock. Histogram is the representative mean ± SD of nanoparticles concentration (particles/mL) and size (nm) from three independent experiments.



**Figure S3.** Detection of SEVs CD63+. Graphic description of sEVs CD63+ detection by magnetic separation with paramagnetic beads coated with anti-CD63.



**Figure S4.** ZIKV inactivation. (**A**) Graphic description of RNase A assay and UV irradiation for ZIKV inactivation. iZIKV = inactivated ZIKV. (**B**) Graphic description of RNase A assay and UV irradiation for ZIKV inactivation on ZIKV-infected C6/36 EVs isolates.





**Figure S5.** Graphic description of the EVs stimulation assays on naïve cells (C6/36, THP-1, or HMEC-1).



**Figure S6.** Vascular endothelial permeability assay. Graphic description of the Transwell system used in the vascular endothelial cells permeability assay.



**Figure S7.** Microscopies from ZIKV-infected C6/36 cells. (**A**) Cytopathic effects observation at 24, 48, 72, 96, and 120 h PI (black arrows) evaluated by light-field microscopy (20x). (**B**) ZIKV E protein detection (red) by fluorescence microscopy (60x).



**Figure S8.** Mean fluorescence intensity (MFI) values from FACS assays performed on lEVs isolates. (**A**) Annexin-V binding MFI values. Histograms are the representative of lEVs PS+ distribution from three independent experiments. (**B**) ZIKV E Protein MFI values. Histograms are the representative of lEVs ZIKV E Protein+ distribution from three independent experiments.



**Figure S9.** Identification of small EVs CD63+ from C6/36 cells. (**A**) CD63-like protein detection (red) by fluorescence microscopy (100x) in the Mock and ZIKV-infected cells (green for ZIKV E protein). (**B**) Detection of ZIKV coupled to paramagnetic beads coated with anti-CD63 by FACS. Dot plots are the representative mean ± SD of the ZIKV E Protein+ (ZIKV coupled) from three independent experiments. (**C**) ZIKV E Protein+ MFI values from ZIKV coupled to paramagnetic beads. Histograms is the representative of the ZIKV E Protein+ distribution from three independent experiments. (**D**) CD63 MFI values. Histograms are the representative of sEVs CD63+ distribution from three independent experiments. (**E**) ZIKV E Protein MFI values. Histograms are the representative of sEVs ZIKV E Protein+ distribution from three independent experiments.



	Mean	Concentration	Mean	Concentration	Mean	Concentration	Mean	Concentration
	(Absorbance)	(mg/mL)	(Absorbance)	(mg/mL)	(Absorbance)	(mg/mL)	(Absorbance)	(mg/mL)
Pool 1	0.579	0.480	0.592	0.502	0.585	0.491	0.608	0.530
Pool 2	0.585	0.491	0.598	0.512	0.599	0.514	0.612	0.537
Pool 3	0.589	0.497	0.602	0.520	0.582	0.485	0.625	0.545

**Figure S10.** Protein quantification of the EVs isolates. (**A**) Calibration curve obtained by BCA method. (**B**) Protein concentration (mg/mL) from EVs isolates. Values were calculated from the mean of absorbances obtained in three independent measures.



**Figure S11.** Inactivated ZIKV (iZIKV) does not infect C6/36, THP-1, or HMEC-1 cells. (**A**,**C**,**E**) ZIKV E protein detection at 48 h (C6/36), 96 h (THP-1), or 72 h (HMEC-1) PI by FACS assay, respectively. ZIKV stock was used as positive control. Dot plots are the representative mean  $\pm$  SD of the positive cells from three independent experiments. (**B**,**D**,**F**) ZIKV-infected cells percentages obtained by FACS. The ZIKV E protein levels were compared (by unpaired Student's t-test) with the Mock cells (\*) value. Statistical significance was recognized as \* when *p* < 0.05, \*\* when *p* < 0.01, and \*\*\* when *p* < 0.0001.



**Figure S12.** ZIKV C6/36 EVs-stimulated naïve C6/36 cells present ZIKV E Protein on their membranes (48 h PI). Cytopathic effects observation (black arrows) and ZIKV E protein detection (red) evaluated by light-field (20x) and fluorescence microscopy (60x), respectively.



**Figure S13.** Microscopies from ZIKV-infected and C6/36 EVs-stimulated monocytes. (**A**) Cytopathic effects observation at 24, 48, 72, 96, and 120 h PI (black arrows) evaluated by light-field microscopy (20x). (**B**) Cytopathic effects observation at different EVs stimuli conditions (black arrows) evaluated by light-field microscopy (20x).



**Figure S14.** Microscopies from ZIKV-infected and C6/36 EVs-stimulated endothelial cells. (**A**) Cytopathic effects observation at 24, 48, 72, 96, and 120 h PI (black arrows) evaluated by light-field microscopy (20x). (**B**) Cytopathic effects observation at different EVs stimuli conditions (black arrows) evaluated by light-field microscopy (20x).