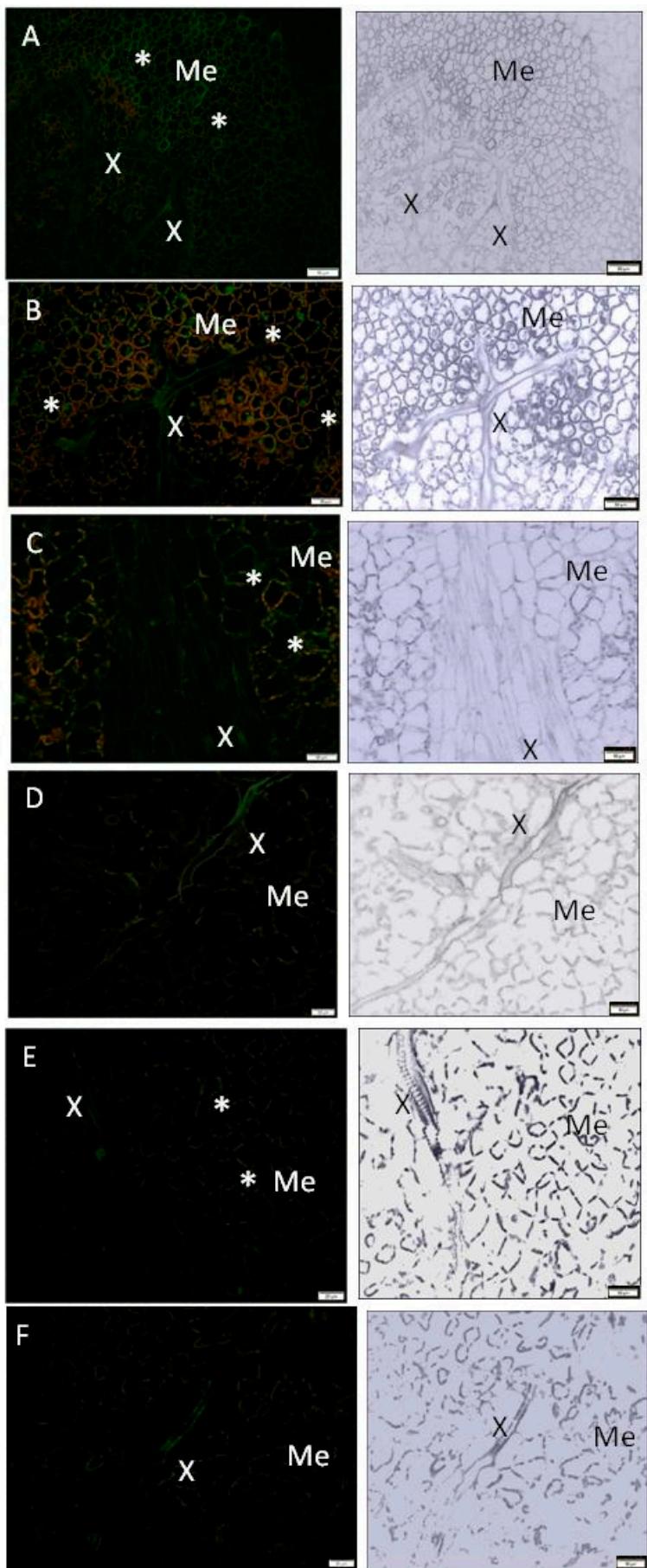
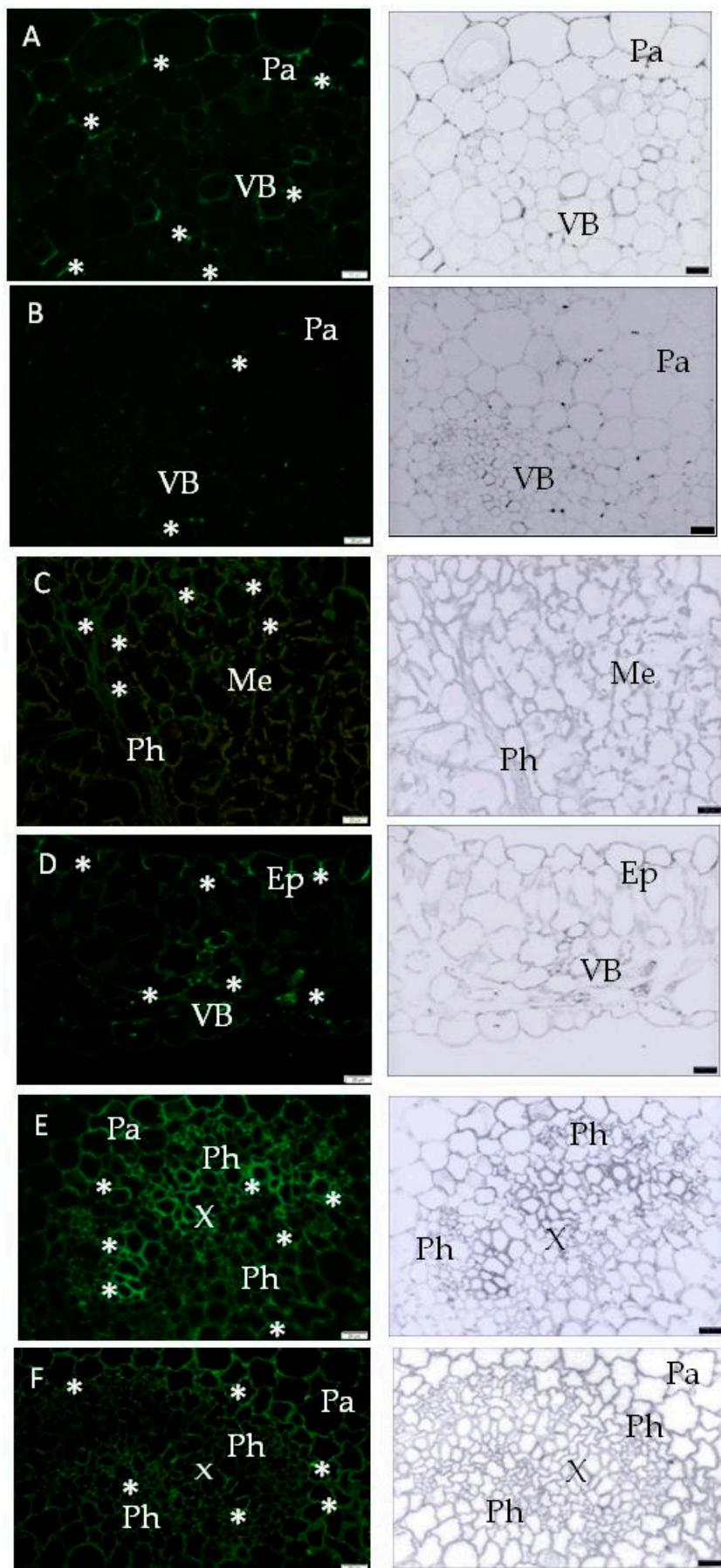


S1A Immunofluorescence localization of StEXPAs in PVY<sup>NTN</sup> - potato Irys compatible (B-F) with corresponding light microscopy images. (A) StEXPAs green fluorescence signal in vascular bundle

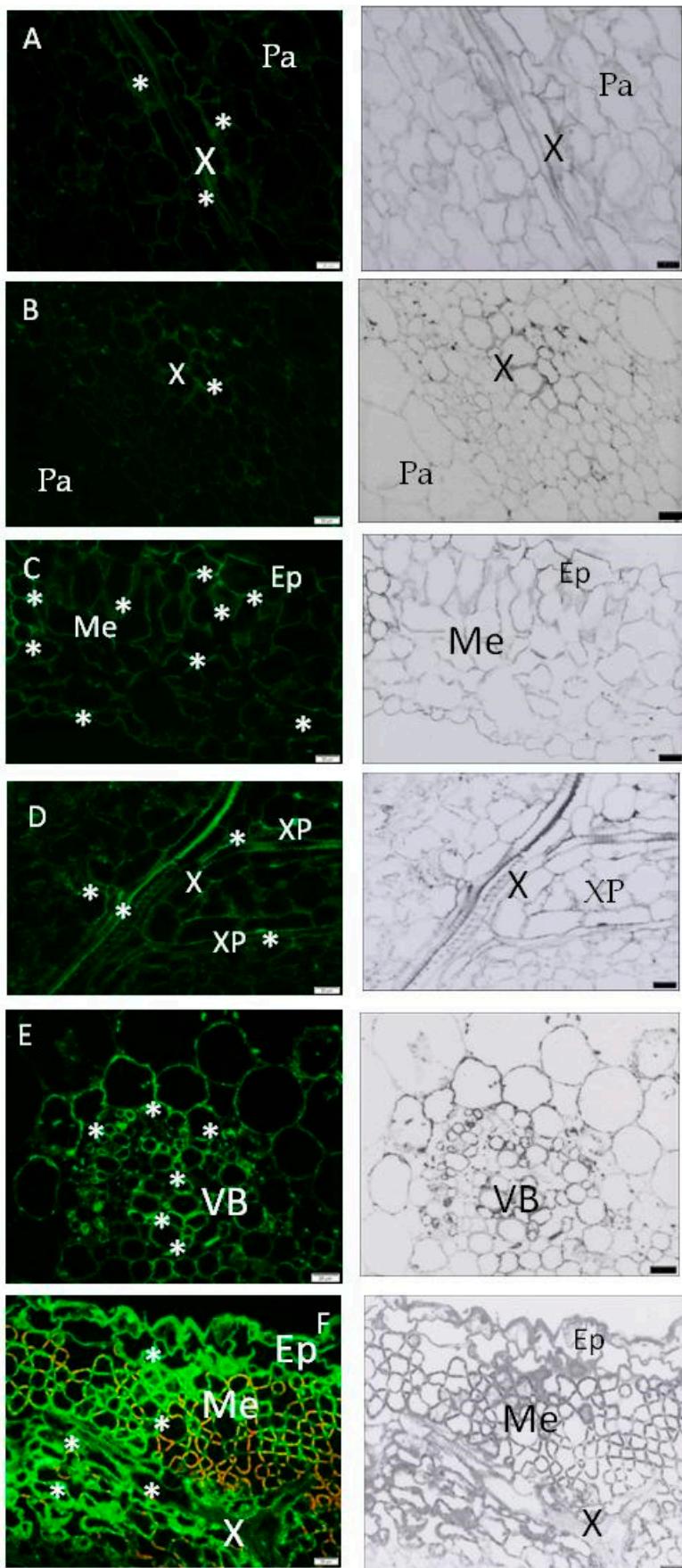
and parenchyma cells in mock-inoculated Irys potato leaf. **(B)** StEXPAs green fluorescence signal in xylem tracheary elements and parenchyma cells in PVY<sup>NTN</sup>-inoculated Irys potato leaf 0 day post inoculation **(C)** StEXPAs green fluorescence signal in vascular bundle and mesophyll cells 1 dpi **(D)** StEXPAs in external cell wall of epidermis (\*), mesophyll cells and vascular tissues 7 dpi **(E)** StEXPAs in all leaf tissues 14 dpi, the most intense signal in necrotizing mesophyll cell (\*). **(F)** StEXPAs signal in all leaf tissues 30 dpi. The most intense signal (\*) in cell wall and symplast in the area of necrotizing mesophyll cells, xylem tracheary elements and stomata. Bar 50 $\mu$ m, I-L Bar 20  $\mu$ m. Ep-epidermis, Me-mesophyll, VB-vascular bundle, X-xylem tracheary elements .



**S1B Immunofluorescence localization of StEXPAs in PVY<sup>NTN</sup> - potato Sárpo Mira incompatible interaction with corresponding light microscopy images.** (A) Green fluorescence signal (\*) in xylem tracheary elements and mesophyll cells in mock--inoculated Sárpo Mira potato leaf (B) StEXPAs green fluorescence signal (\*) in xylem tracheary elements and mesophyll cells in PVY<sup>NTN</sup>-inoculated Irys potato leaf 0 day post inoculation. (C) StEXPAs green fluorescence signal singular mesophyll cells 1 dpi. (D) StEXPAs green fluorescence signal (\*) in xylem tracheary elements 7 dpi. (E) Weak signal of StEXPAs in singular mesophyll cells 14 dpi. (F) StEXPAs green fluorescence signal (\*) in xylem tracheary elements 30 dpi. A-B Bar 50µm, C-F Bar 20 µm. Ep-epidermis, Me-mesophyll, VB-vascular bundle, X-xylem tracheary elements .



**S1C Immunofluorescence localization of HRGPs-extensins in compatible PVY<sup>NTN</sup>- interaction with corresponding light microscopy images.** (A) HRGPs green fluorescence signal (\*) in xylem tracheary elements and parenchyma cells in mock-inoculated Irys potato (B) HRGPs weak green fluorescence signal in parenchyma cell rounded vascular tissues 0 dpi (C) HRGPs in phloem and mesophyll cells 1dpi (D) Green fluorescence signal in epidermis and vascular bundle 7 days post virus inoculation (E) HRGPs in vascular bundle and parenchyma cells arounded vascular tissues 14dpi (F) HRGPs in vascular bundle and parenchyma 30 days post virus inoculation. Bar 20μm. Ep-epidermis, Me-mesophyll, Pa-parenchyma, Ph-phloem, VB-vascular bundle, X-xylem tracheary elements, XP-xylem parenchyma.



S1D Immunofluorescence localization of HRGPs-extensins in incompatible PVY<sup>NTN</sup>- interaction with corresponding light microscopy images. (A) HRGPs green fluorescence signal (\*) in xylem

tracheary elements in mock-inoculated Sárpo Mira potato (**B**) HRGPs green fluorescence signal in xylem tracheary elements in Sárpo Mira potato 0dpi (**C**) HRGPs in mesophyll and epidermis 1dpi (**D**) HRGPs in xylem tracheary elements and xylem parenchyma cells 7dpi (**E**) HRGPs in vascular bundle 14 dpi (**F**) HRGPs in epidermis, mesophyll and xylem tracheary elements 30 days post virus inoculation. Bar 20 $\mu$ m. Ep-epidermis, Me-mesophyll, Pa-parenchyma, VB-vascular bundle, X-xylem tracheary elements, XP-xylem parenchyma.