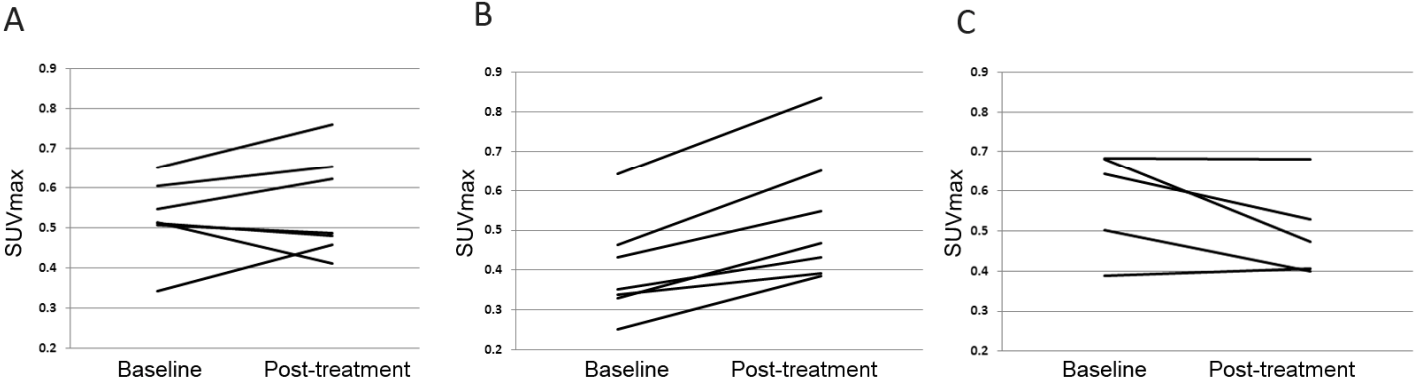


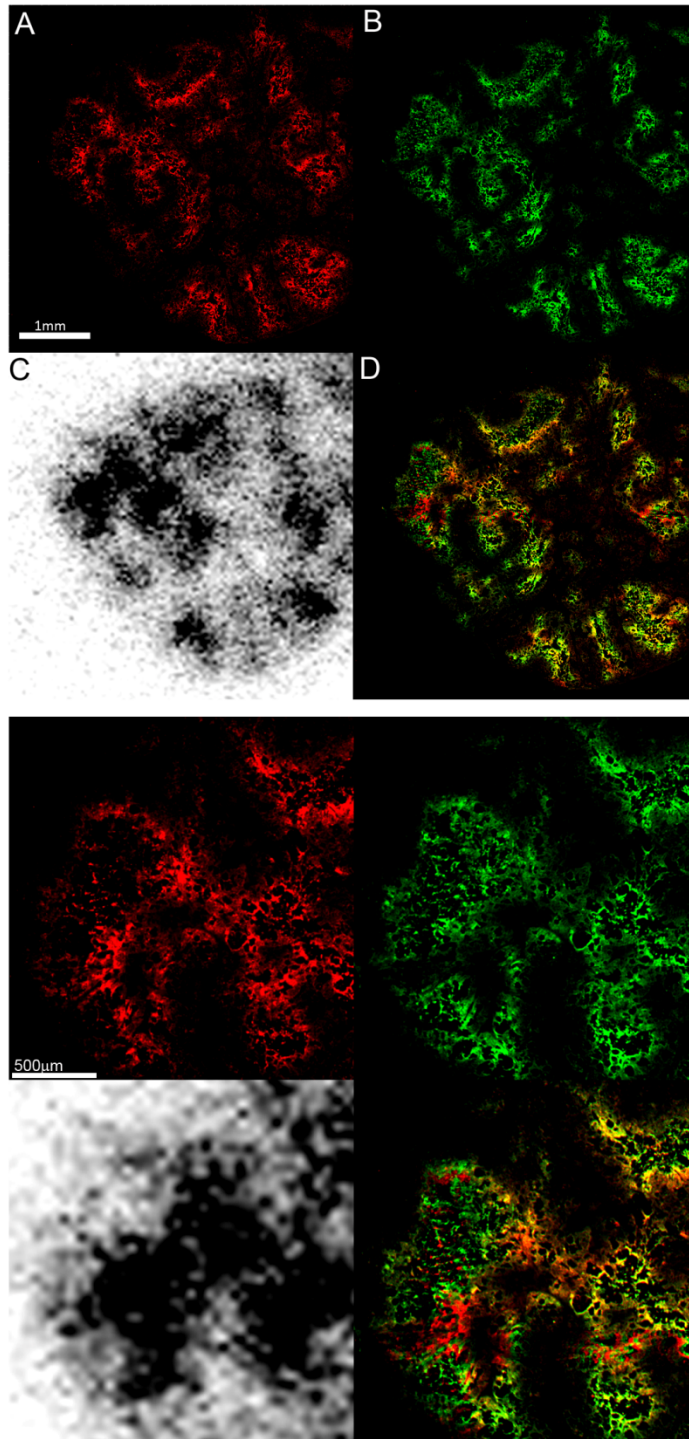
Suppl. Figure 1



^{18}F -FMISO SUV_{max} before and after treatment with DMXAA

A, vehicle-only control tumors; **B**, DMXAA-1 group (as determined by SUV_{mean}); **C**, DMXAA-2 group (as determined by SUV_{mean}).

Suppl Figure 2

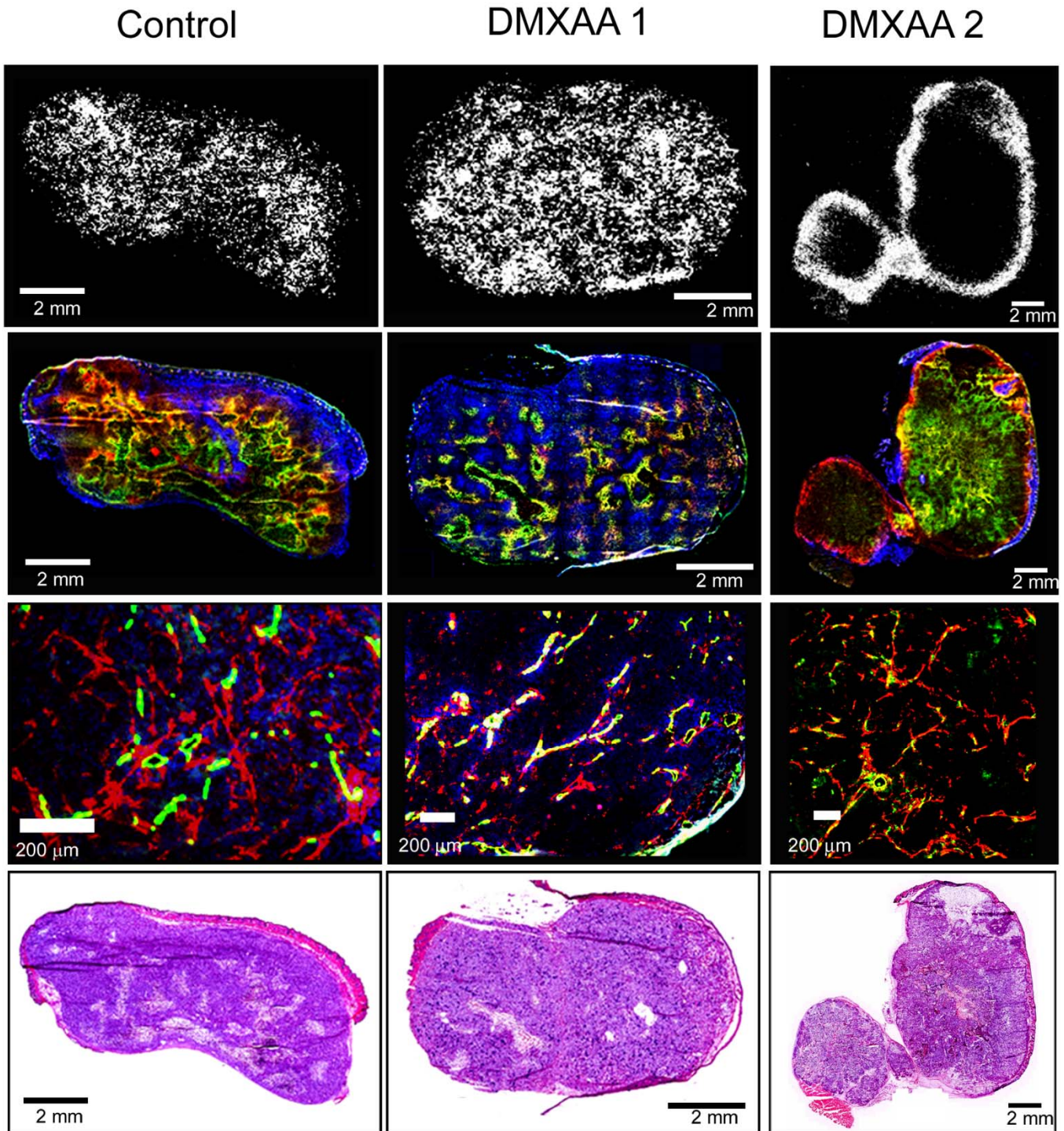


Comparison of ¹⁸F-FMISO DAR and IHC staining of tumor hypoxia on an untreated (control) tumor at high resolution

Upper panel: A, EF5 distribution; B, Pimonidazole distribution; C, ¹⁸F-FMISO DAR; D, Combined EF5 (red) and pimonidazole (green) distribution, colocalized regions in yellow.

Lower panel: as above, central region magnified.

Figure 3



Comparison of ^{18}F -FMISO DAR and IHC staining of tumor hypoxia and vasculature

First row: ^{18}F -FMISO DAR; second row: composite fluorescence image of Hoechst 33342 (blue), pimonidazole (green) and EF5 (red); third row: composite fluorescence image of endothelial cell staining with anti-CD31 antibody (green), pericyte staining with anti- α -SMA antibody (red) and Hoechst 33342 (blue); fourth row: H&E stained sections.