



Supplementary figure 1: Positioning of ROI or VOI on T2 weighted images. ROI of the tumor and the contralateral side were selected according to the T2 weighted images of the slice of interest (TR/TE: 5000/77ms, NEX: 2, FOV: 4x4 cm, matrix: 256x256, SI: 1 mm) (a), example of three DW images ($b = 0, 100$ and 1000 s/mm^2) (TR/TE : 3000/30ms, FOV: 4x4 cm, matrix: 128x128, SI: 1mm) (b); ADC map calculated from DWI, on which ROI are postioned (c), T2 weighted images (TR/TE : 5000/77ms, NEX : 2, FOV: 4x4 cm, matrix: 256x256, SI: 1 mm) in axial (1 and 3) and coronal (2 and 4) planes, showing the positioning of the MRS voxel of interest pre-iPDT (1 and 2) or 7 days post-iPDT (3 and 4) (d). The single slice of interest was selected according to the central position of the treatment optical fiber.