Electronic Supplementary Material (ESI) for Analyst.

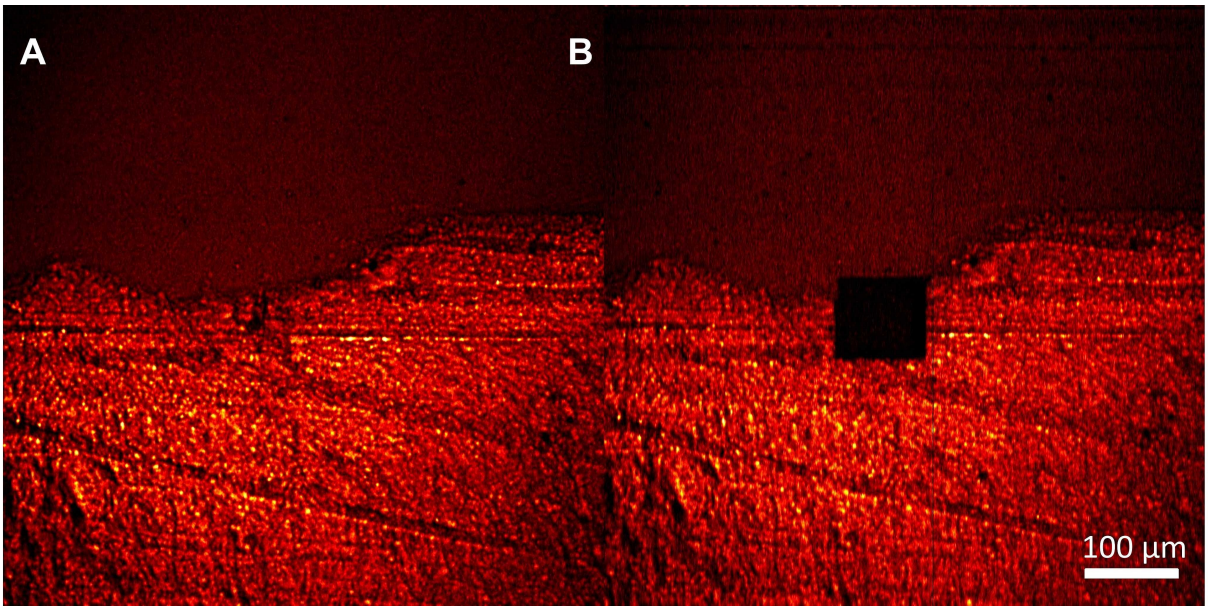

Figure ESI 1: fs-laser ablation of a thin tissue section from cerebellar porcine brain monitored by CARS microscopy at 2850 cm^{-1} A: porcine brain tissue monitored by CARS microscopy at 2850 cm^{-1} before fs-Laser ablation. B: porcine brain tissue monitored by CARS microscopy at 2850 cm^{-1} after fs-Laser ablation (CARS-Laser: Pump 795 nm, Stokes 1032nm, 65 mW at the sample, 1 MHz repetition rate, A: image size 1024x1024 pixel, 930µmx930µm, 4µs pixel dwell time, B: image size 970x970 pixel, 644µmx644µm 1µs pixel dwell time, fs-ablation laser: 500 µW, 800nm, 35 fs, 1 kHz).