Visualizing Brain Inflammation with a Shingled-Leg Radio-Frequency Head Probe for $^{19}$F/$^1$H MRI

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Supplementary Figure 1. $B^+$-Field Distribution of the proton channel for the $^{19}F/^{1}H$ RF Birdcage Probe along the z-axis. A line plot (blue curve) of the $B^+$-field through the center of the phantom tube along the z-axis of the probe, overlaid with the $B^+$-field distribution of the center slice with the same spatial orientation and scale of the line plot. The grey bars on either side depict the location of the two end rings of the birdcage. About 65% of the usable volume of the birdcage resonator has a $B^+$-field deviation of less than 10% (black horizontal line).
**Supplementary Figure 2.** Uptake of $^{19}$F-rich and DiI-labeled Nanoparticles by different Immune Cell Populations in CNS and Secondary Lymphoid Organs of EAE Mice. Shown are fluorescence of different immune cell stainings (CD3$^+$ T cells, CD19$^+$ B cells, CD11b$^+$ and CD11c$^+$ monocytes/macrophages) and DiI in EAE mice administered with (right panel) or without (left panel) DiI-labeled $^{19}$F nanoparticles.