



Figure S1. K-space trajectory of RESOLVE DWI and BLADE DWI. In RESOLVE DWI, the k-space trajectory is divided into multiple shots in the readout direction (k_x), which allows for an encoding-time reduction increasing image quality. BLADE acquires every k -space line at the center of a spin echo, thus avoiding the phase accumulation that leads to distortion and blurring in EPI. The center of the k -space is covered in each train of refocusing pulses, and multiple rotated blades are acquired to fully sample a circular k -space region over multiple shot.