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Dr Golby is Professor of Neurosurgery at Brigham and Women's Hospital in Boston with extensive brain tumour surgery service. She is an international authority on image-guided neurosurgery and use of fMRI and DTI in tumour surgery. Her research involves the application of brain mapping techniques to neurosurgical patients as well as neuroscientific investigations into the brain basis of cognition using multiple functional brain mapping techniques (functional MRI, diffusion tensor imaging, and intracranial EEG) to better understand the cognitive physiology of memory and other higher cognitive functions.

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