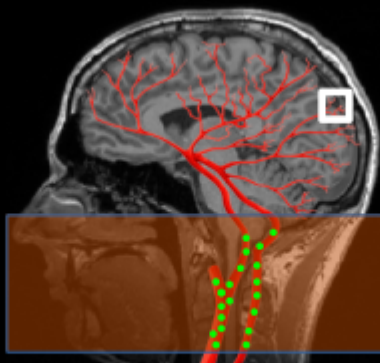


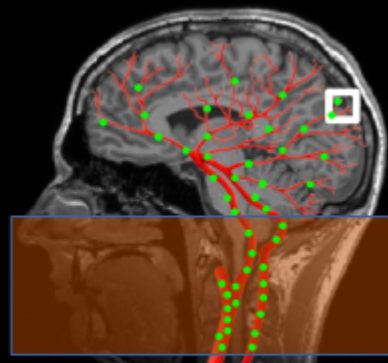
## Micro-arterial perfusion



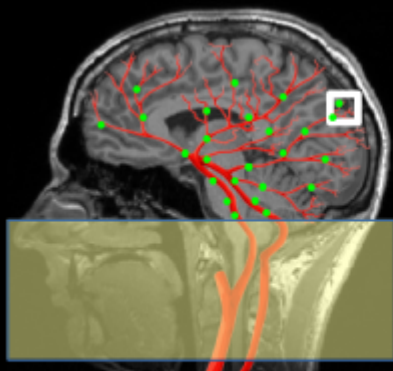
**Carotid  
arteries**



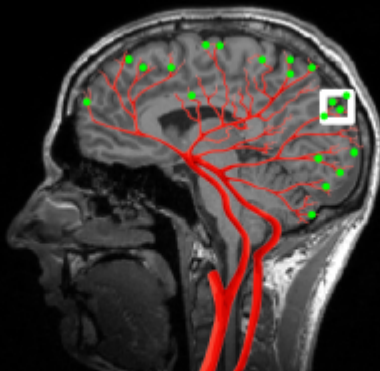
Magnetic labeling of  
spins in the neck



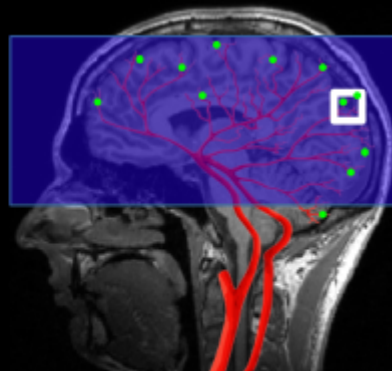
Spins travel with  
blood to vessels



Saturation pulse controls  
end of labeling



Magnetically labeled  
spins get to vessels



MRI image is acquired