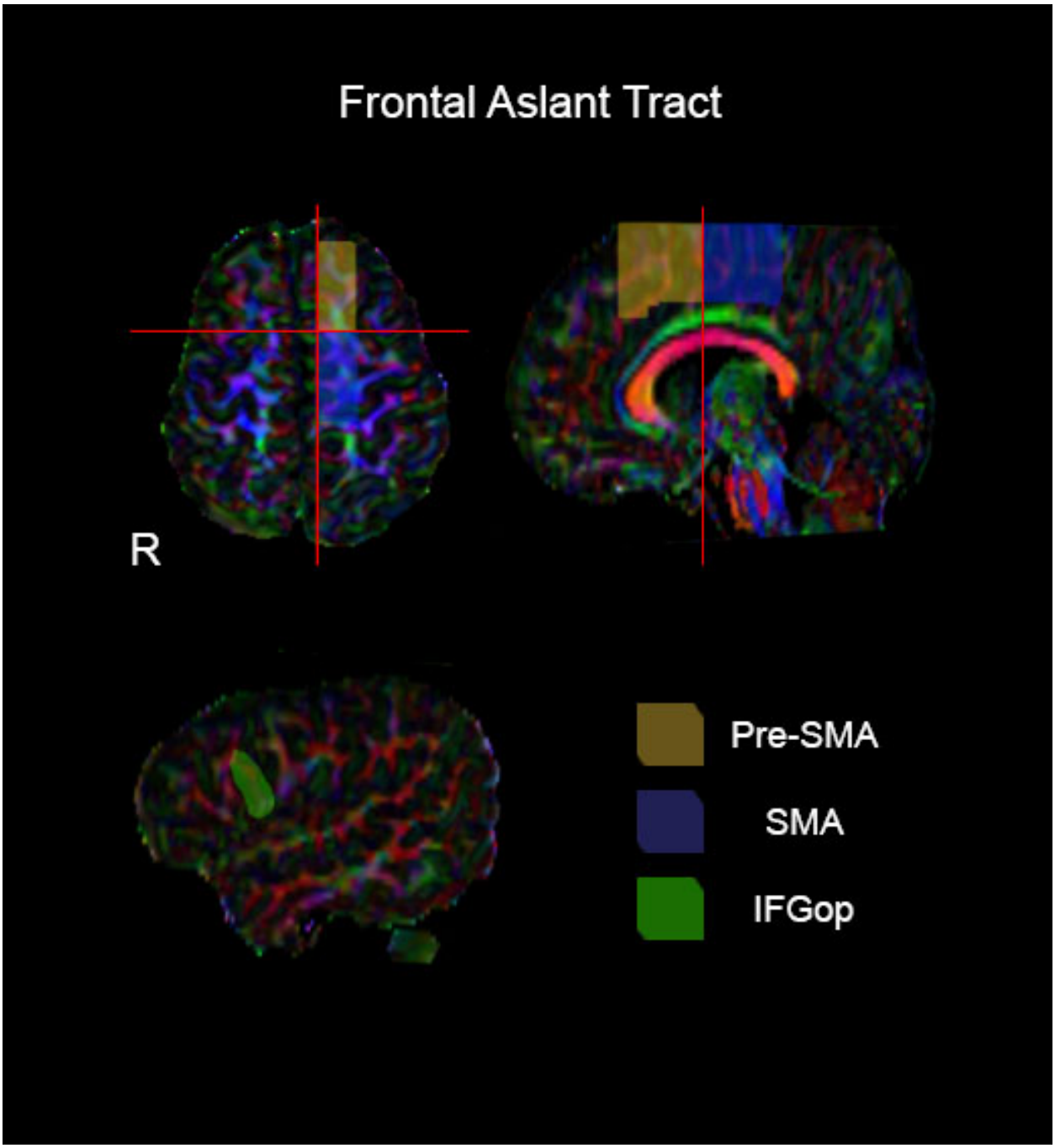
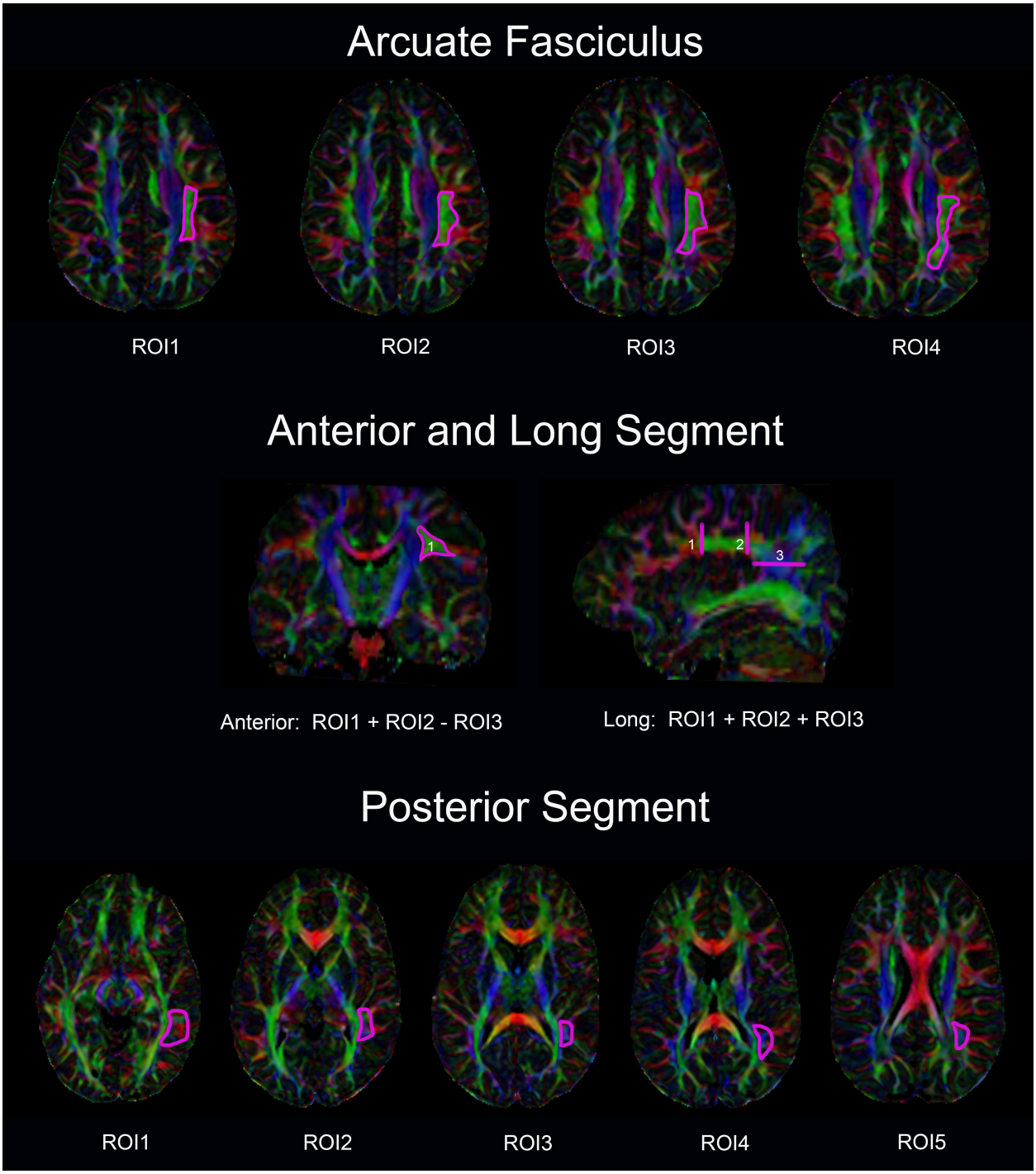



*Supplemental Figure 1*. Region of interest (ROI) definition of the frontal aslant tract (FAT) defining the inferior frontal gyrus (opercular part), supplementary motor area (SMA), and pre-supplementary motor area (pre-SMA).




*Supplemental Figure 2*. Region of interest (ROI) definition of the anterior, long, and posterior segments of the arcuate fasciculus. Top: Combined ROIs defined across four axial slices were used to track the whole AF. Middle: To track the anterior and long segments, we followed the approach in Eluvathingal, T. J., Hasan, K. M., Kramer, L., Fletcher, J. M., & Ewing-Cobbs, L. (2007). Quantitative diffusion tensor tractography of association and projection fibers in normally developing children and adolescents. *Cerebral Cortex*, *17*(12), 2760-2768. doi:10.1093/cercor/bhm00. We drew two ROIs on coronal slices, and a single ROI on an axial slice where the fronto-temporal connections project to temporal regions. For the anterior segment (middle left), the axial ROI was entered as a region of avoidance (ROA). It was included in the tracking of the long segment (middle right) Bottom: To track the posterior segment, we used a five ROI approach identified on axial slices.