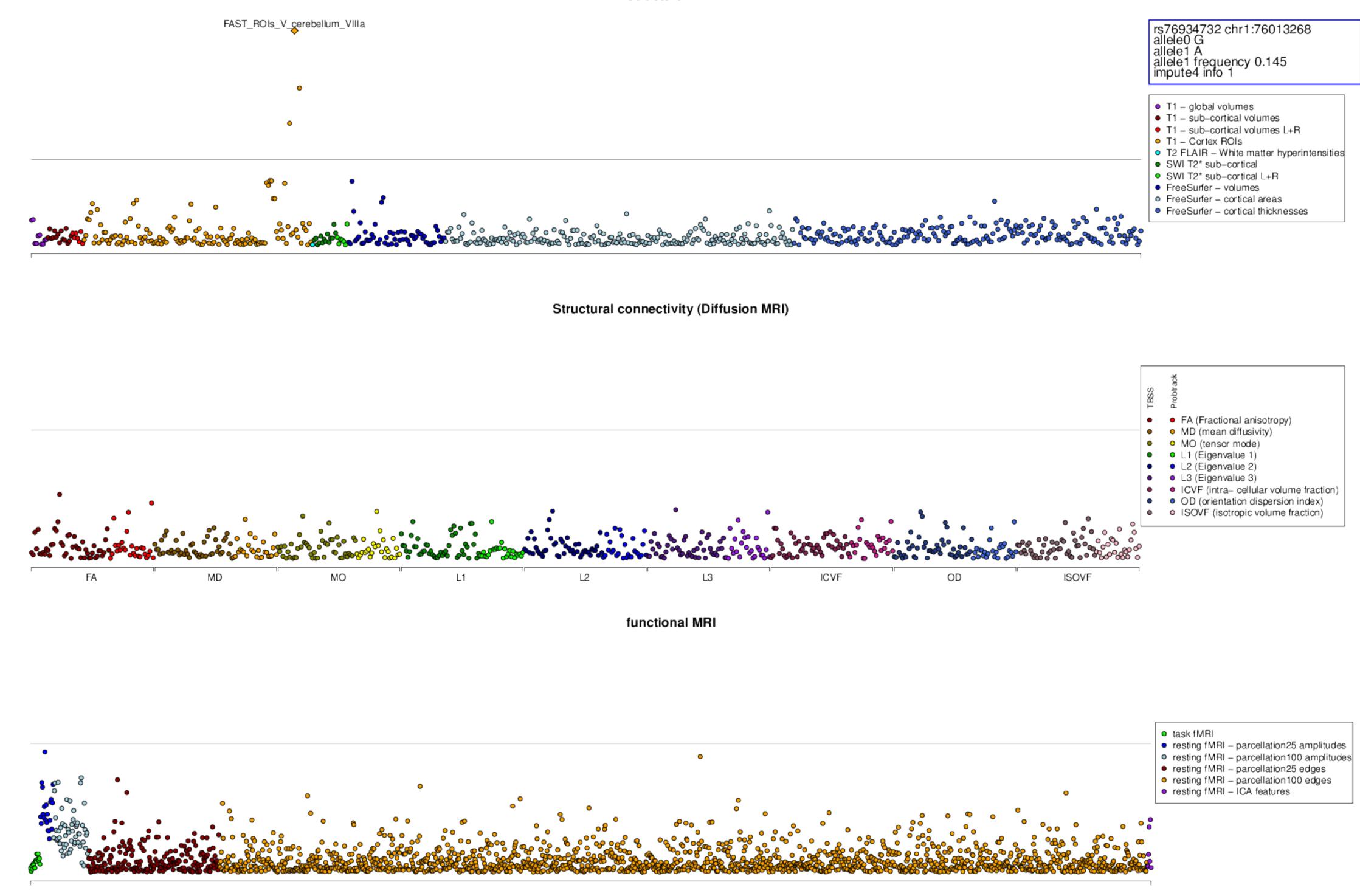
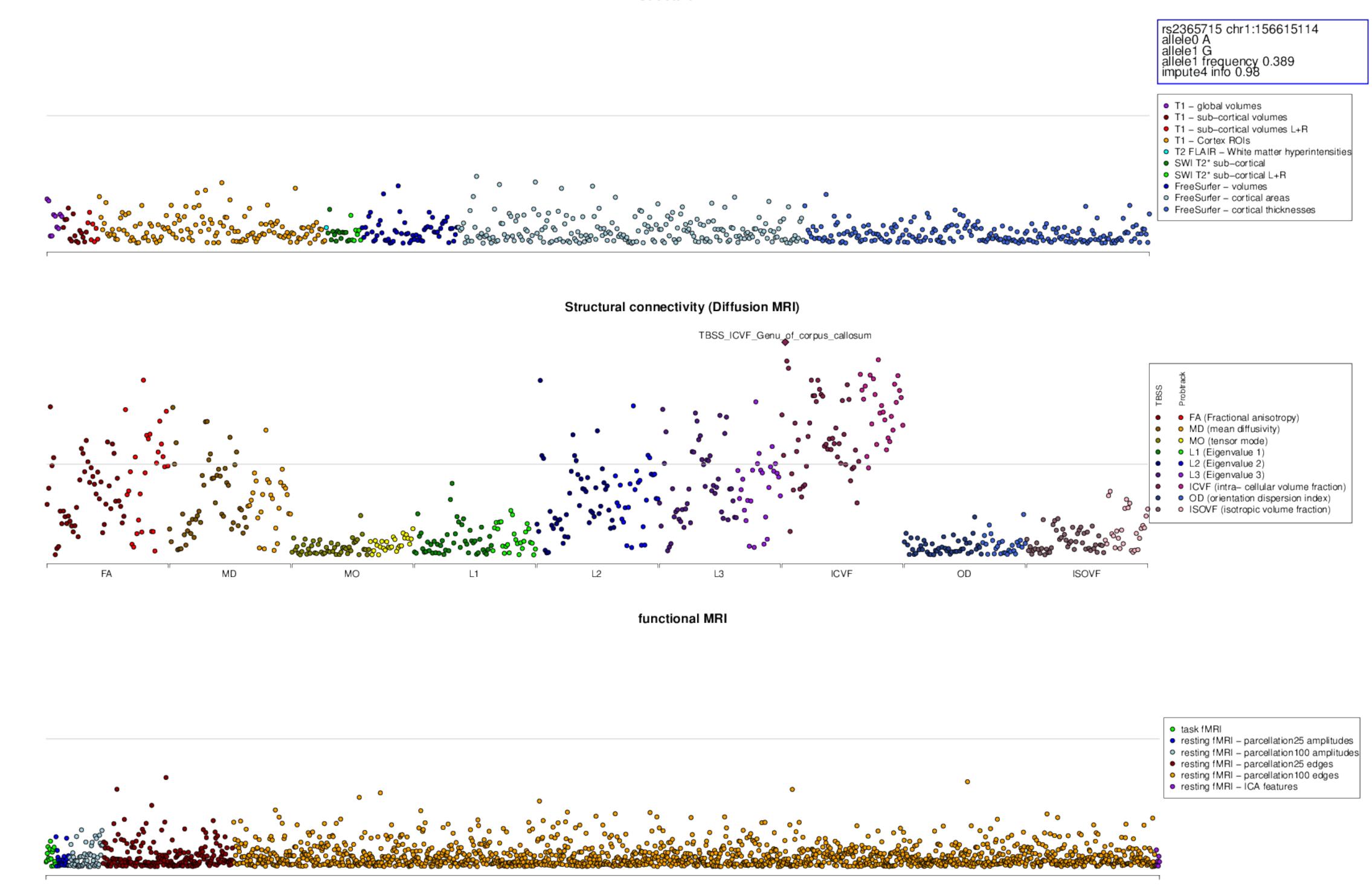
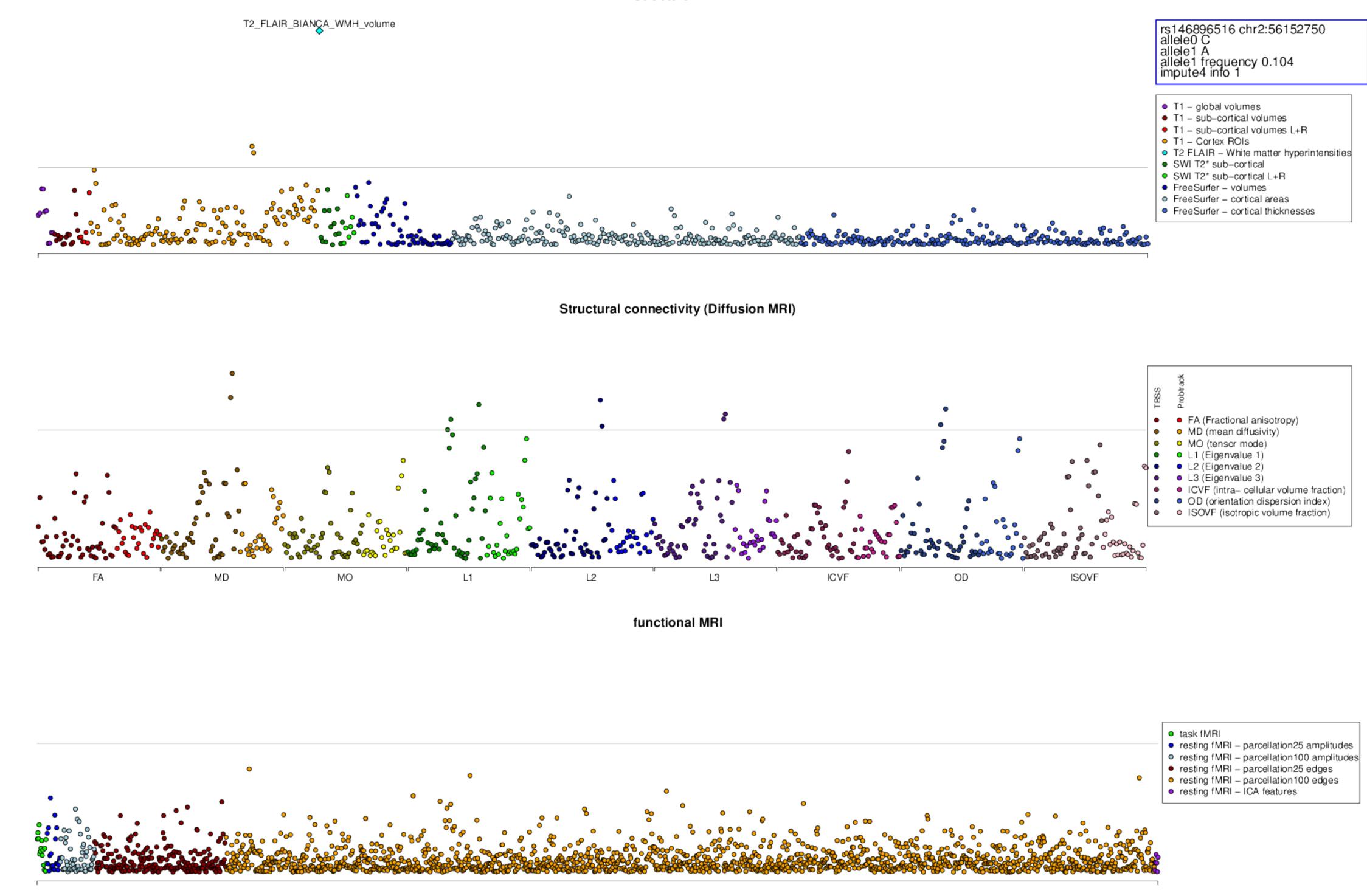
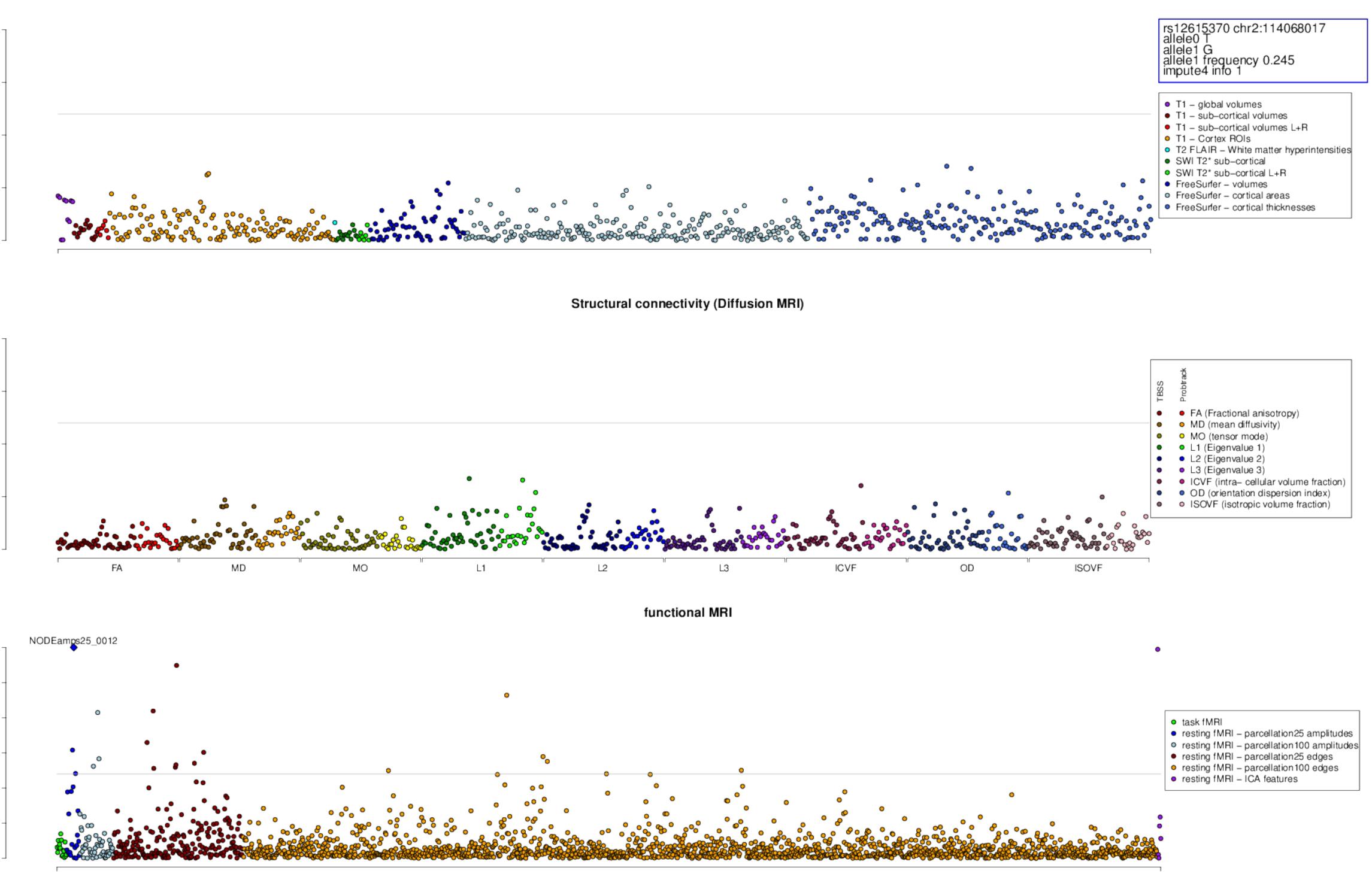
Supplementary Figure S8

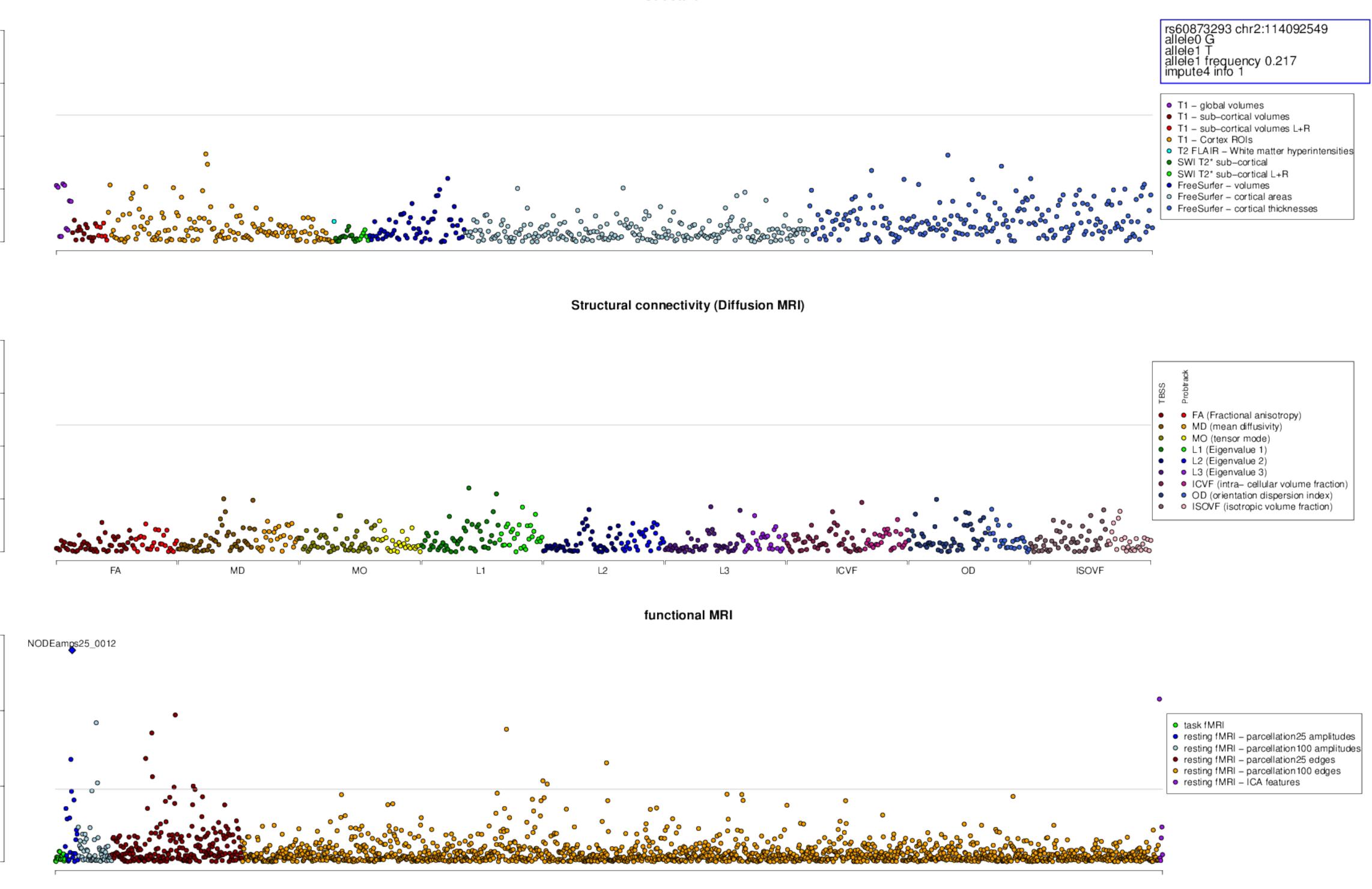
Each of the subsequent pages shows a PheWAS plot for each one of the 78 SNPs with unique rsIDs in Supplementary Table S2. The association (-log₁₀ p-value on the y-axis) for the SNP is shown with each of the 3,144 IDPs. The IDPs are arranged on the x-axis in the three panels: (top) Structural MRI IDPs, (middle) Structural connectivity/micro-structure dMRI IDPs, (bottom) functional MRI IDPs. Points are coloured to delineate subgroups of IDPs and detailed in the legends. Summary details of each SNP are given in the top right box. The grey line shows the Bonferroni multiple testing threshhold of 4.8.

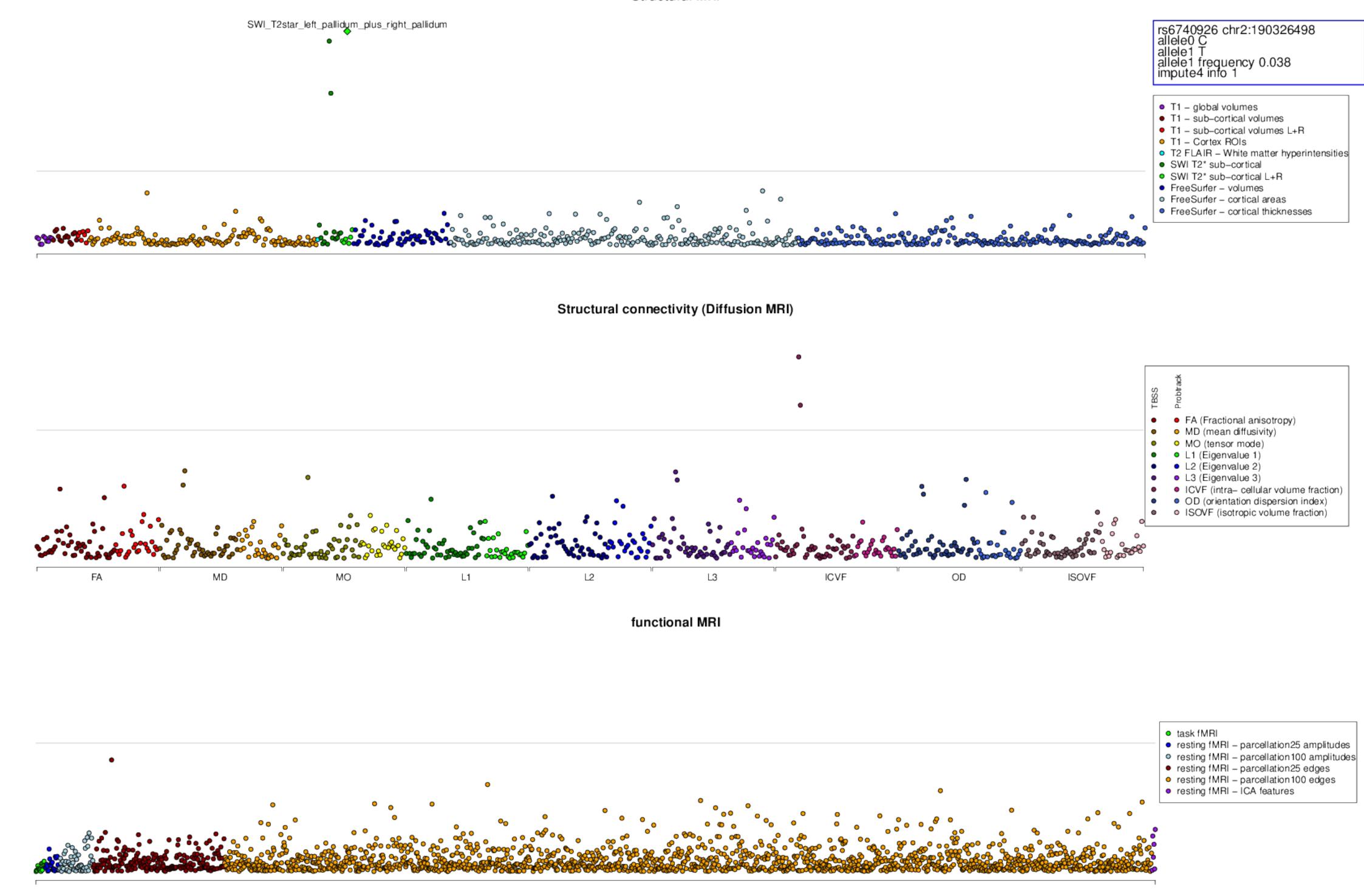


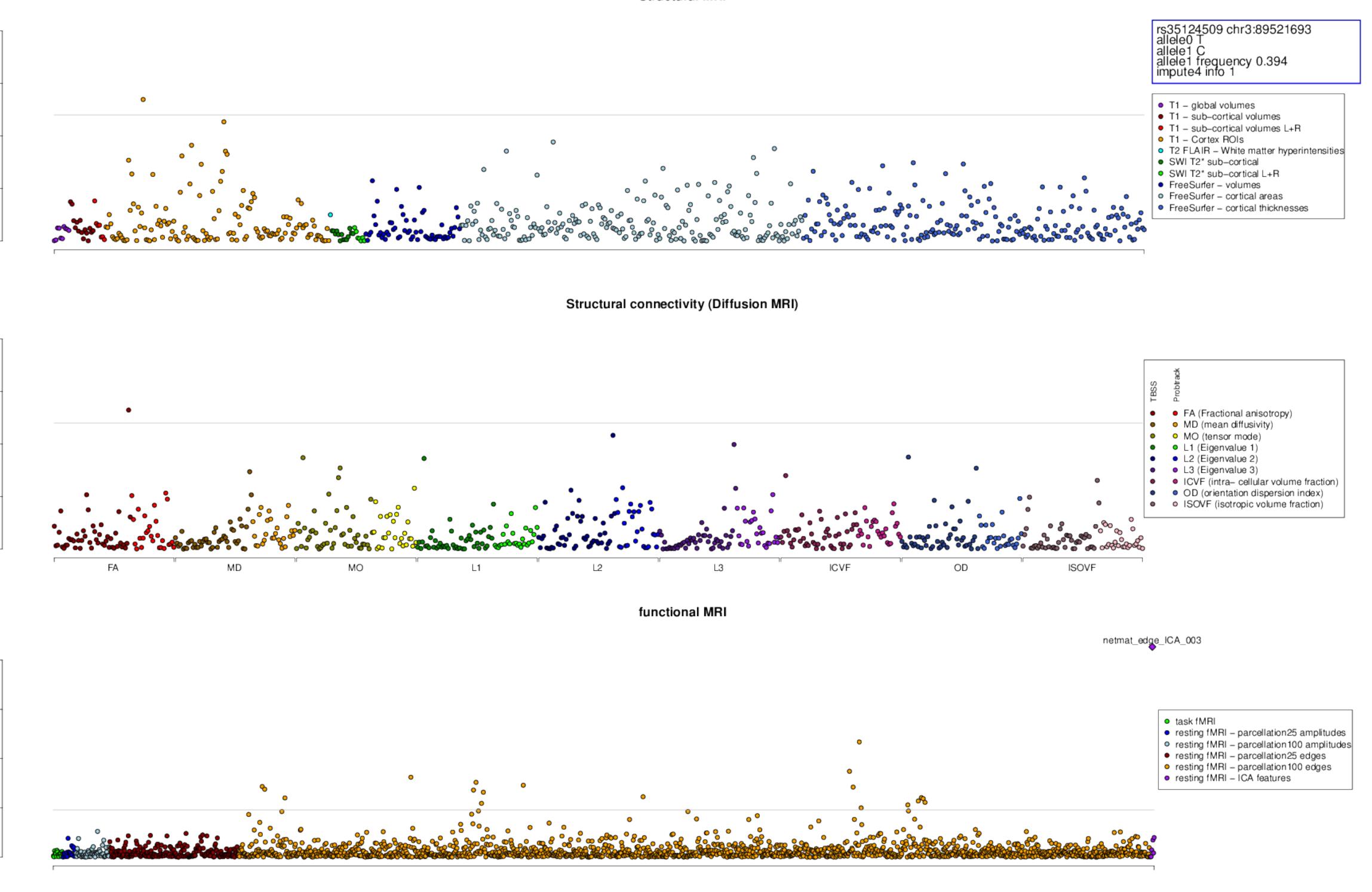


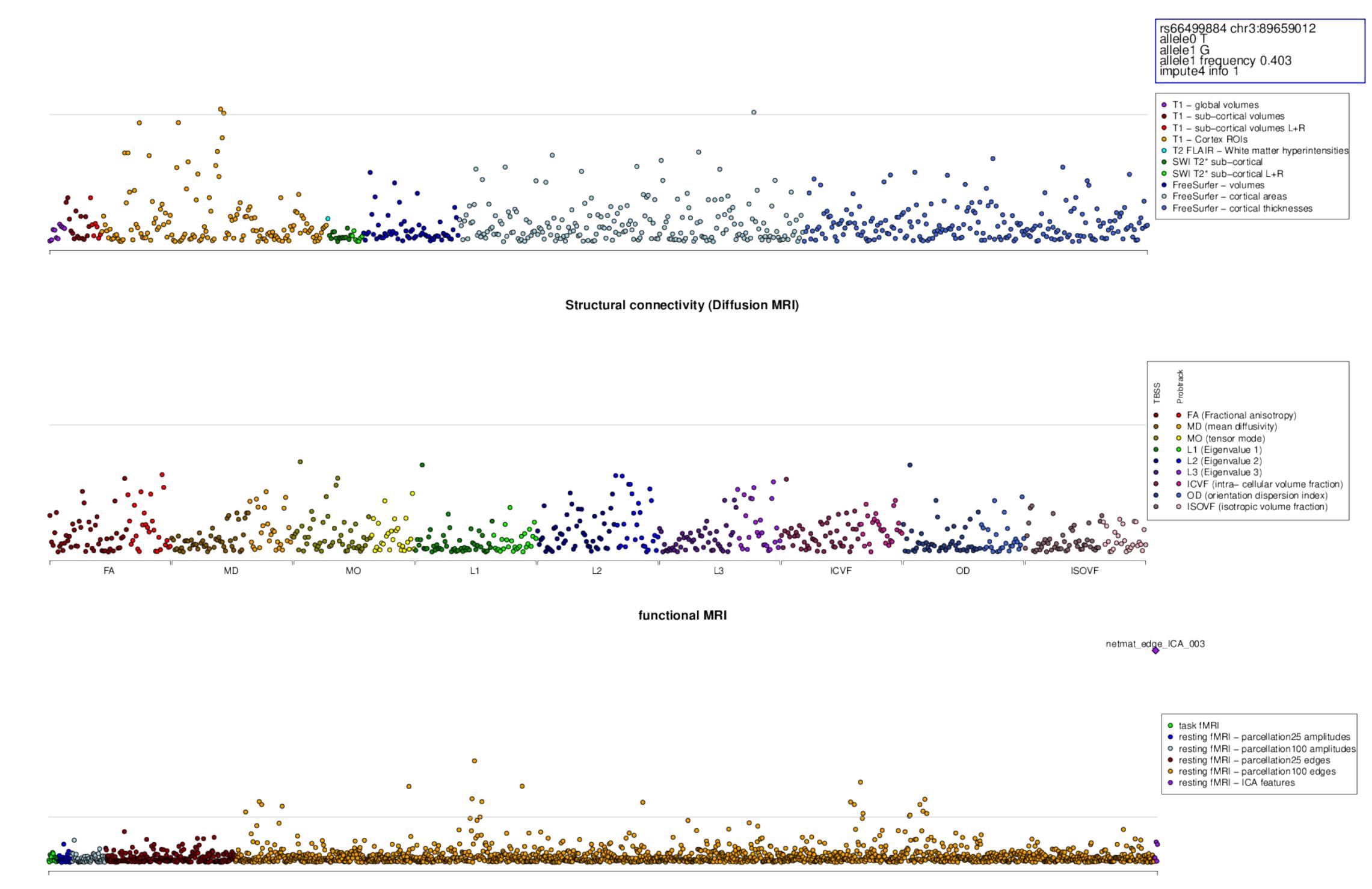


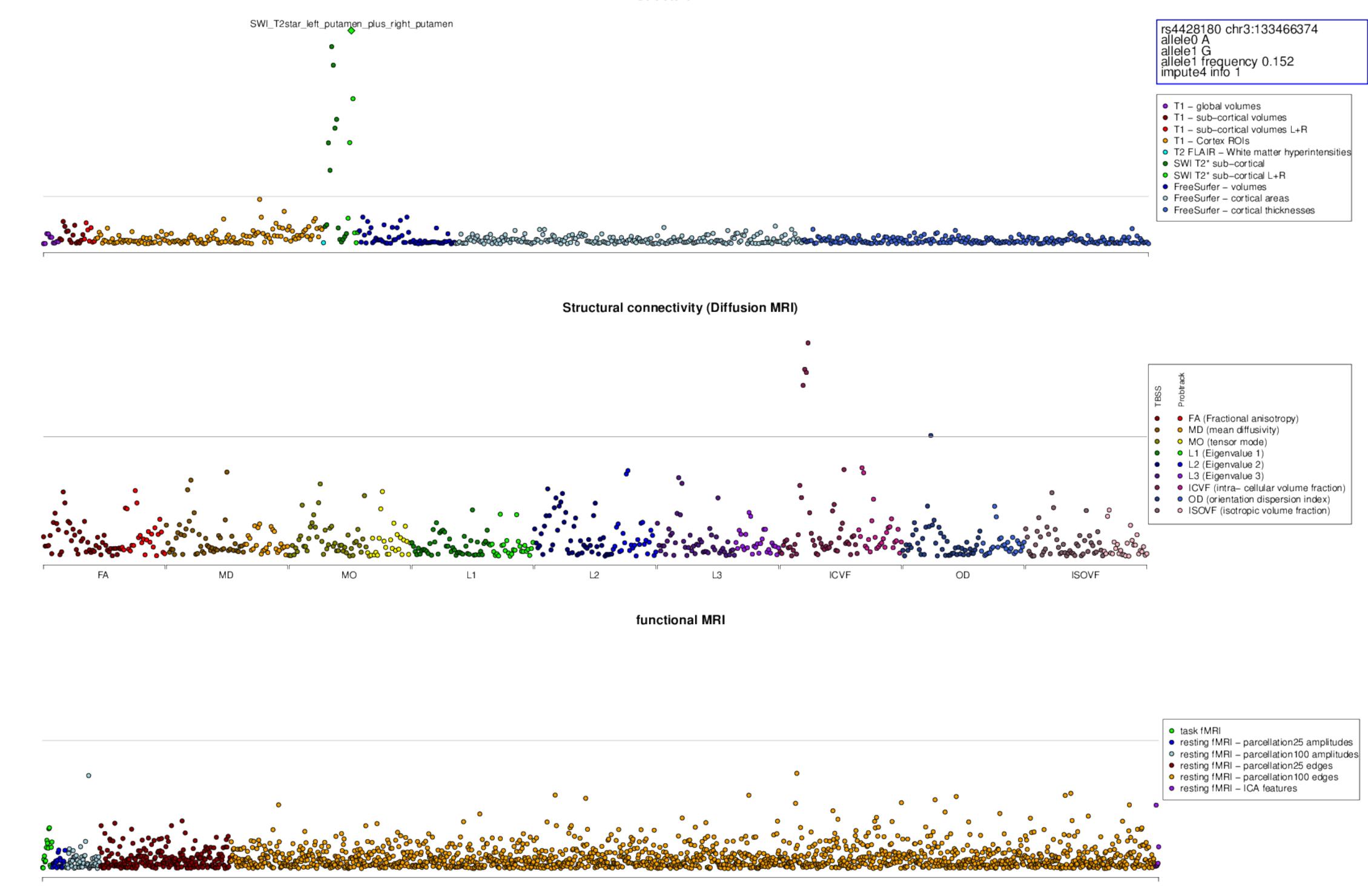


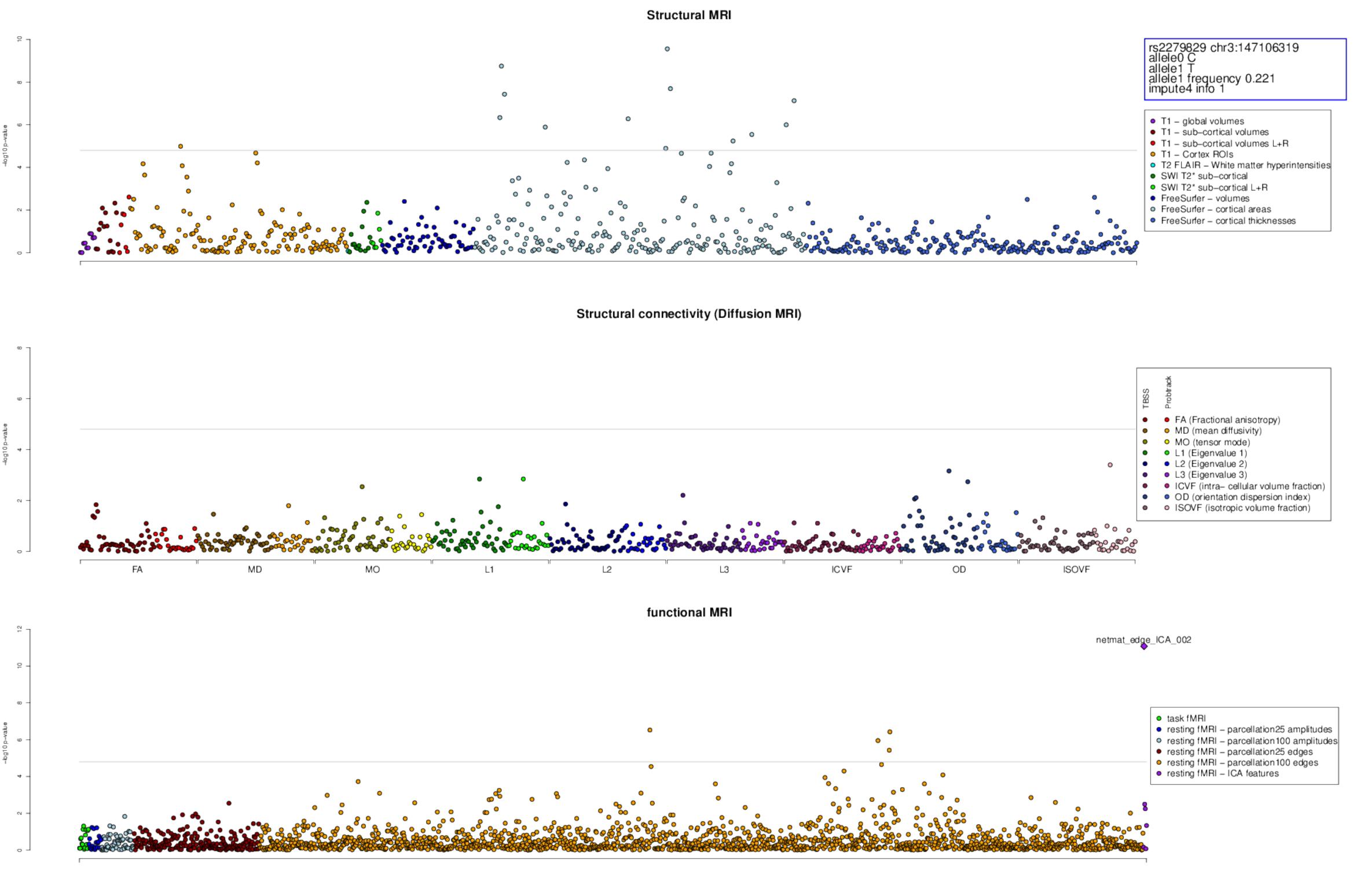


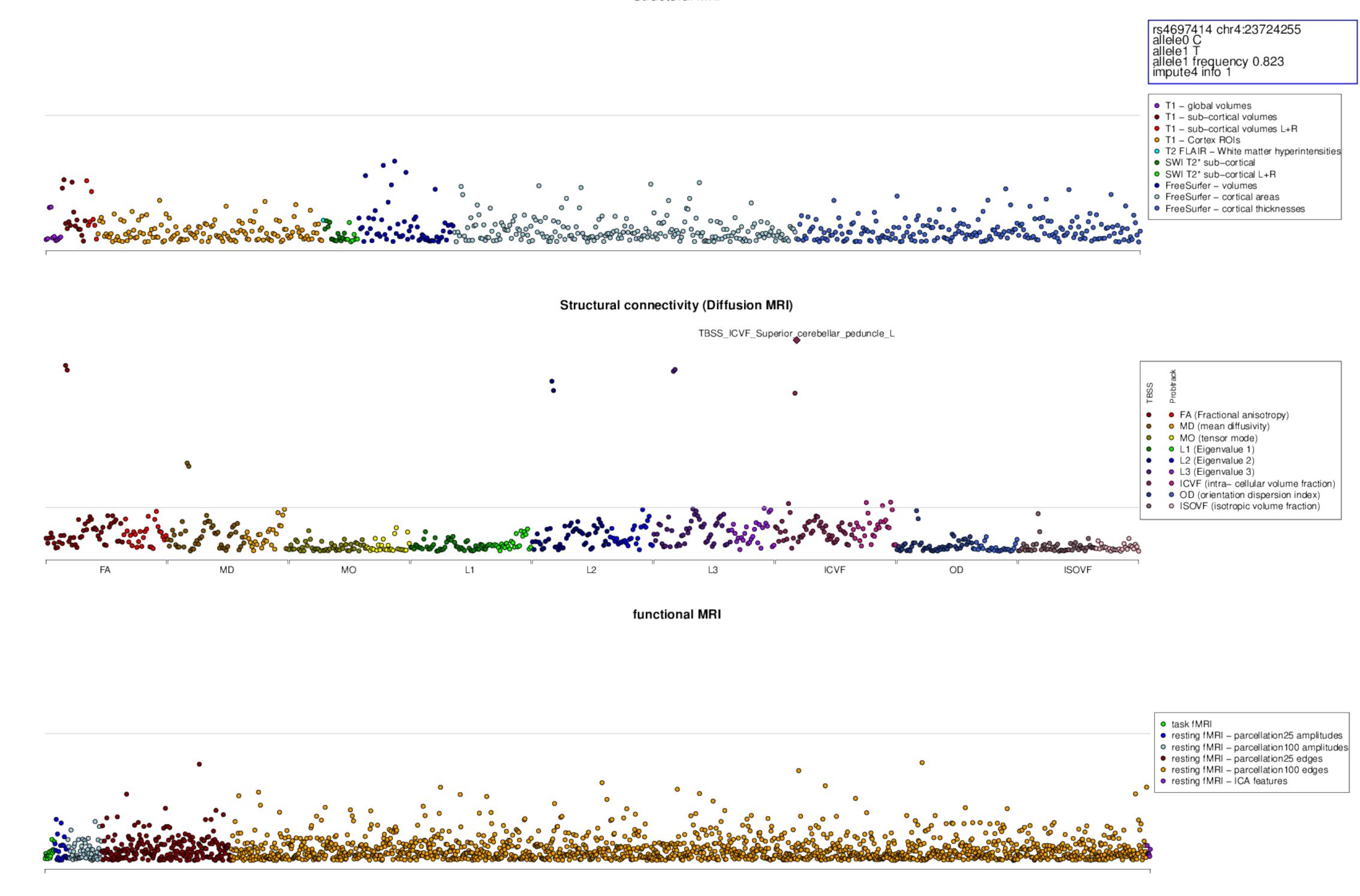


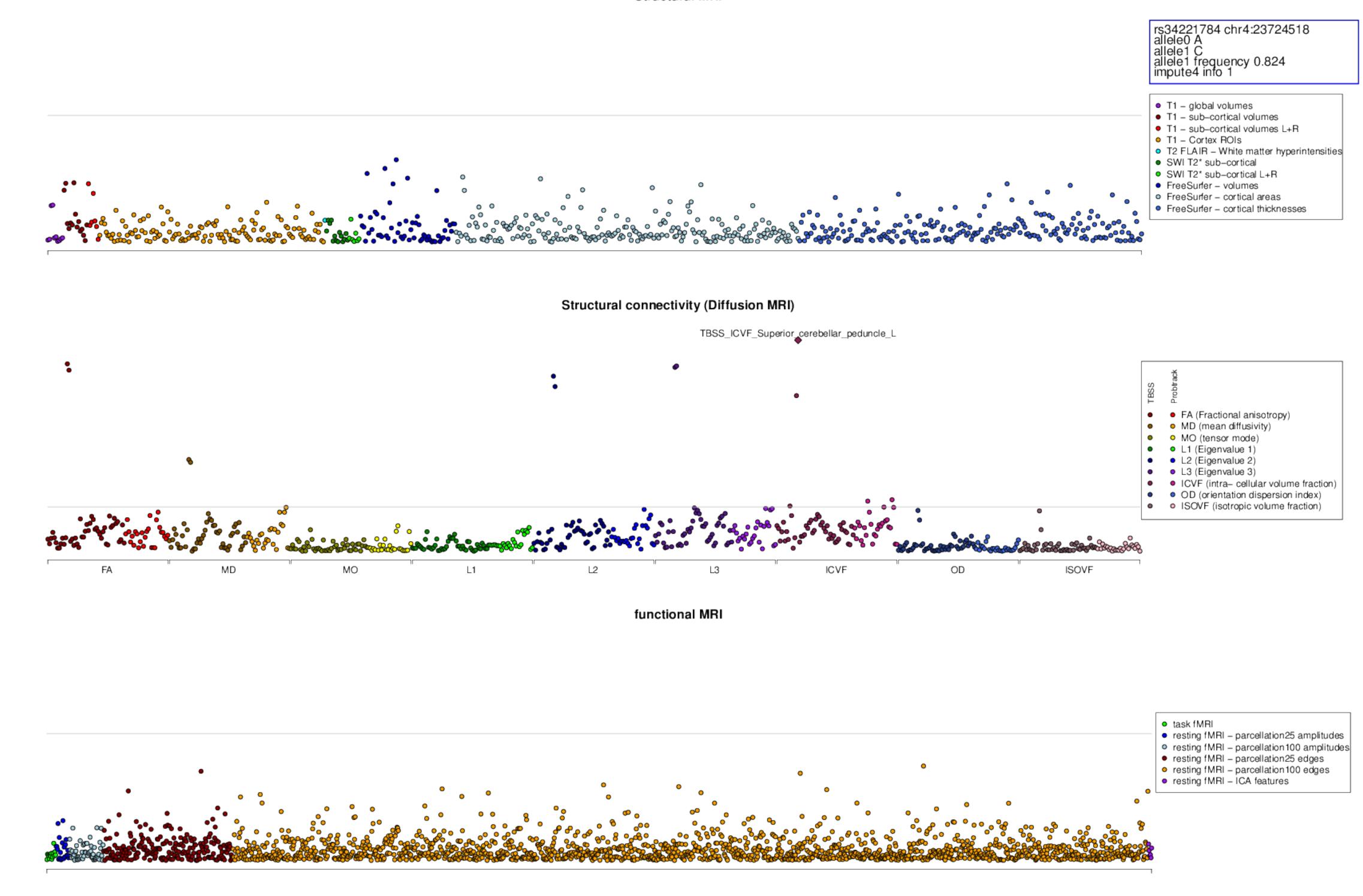


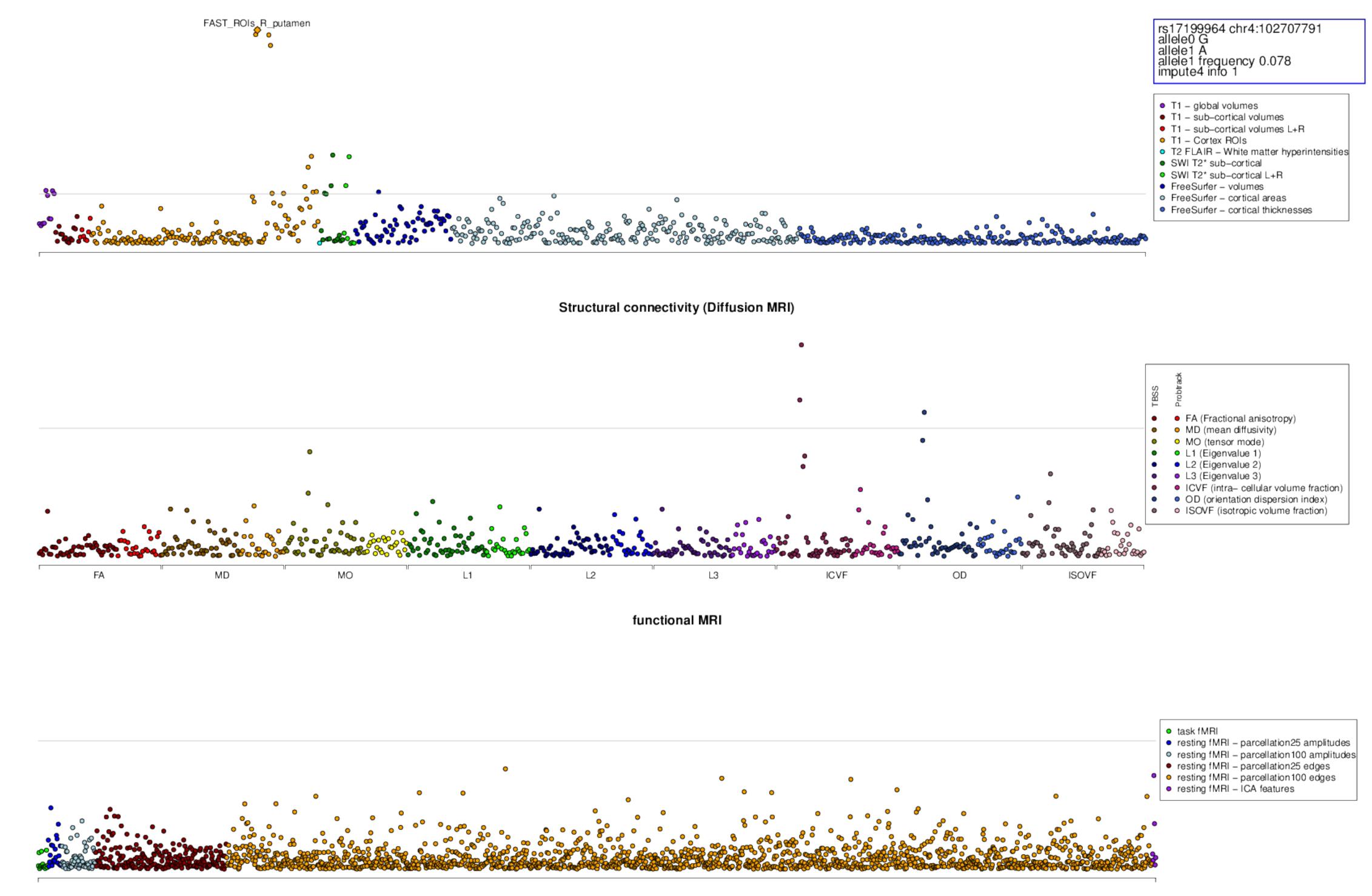


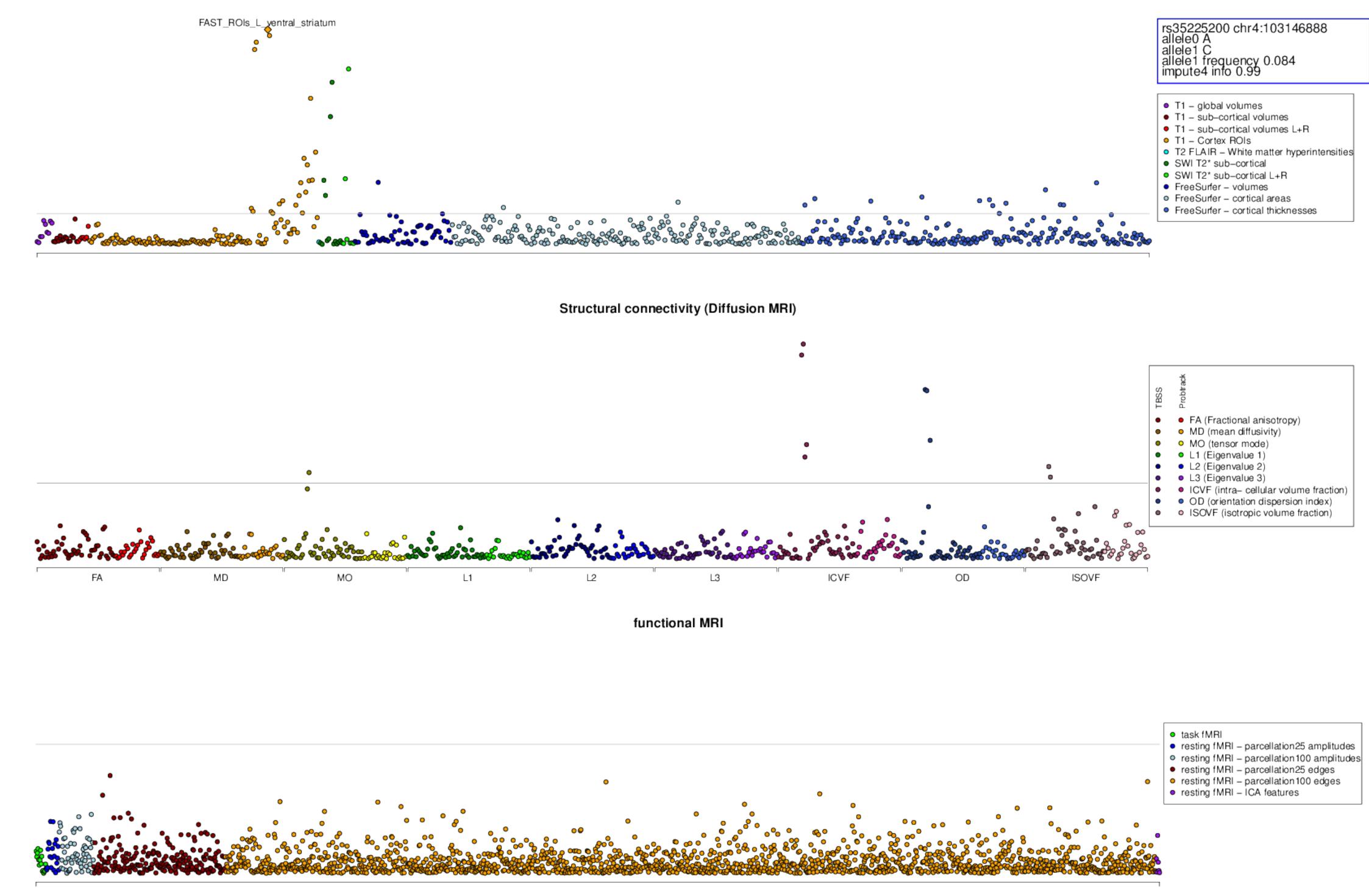


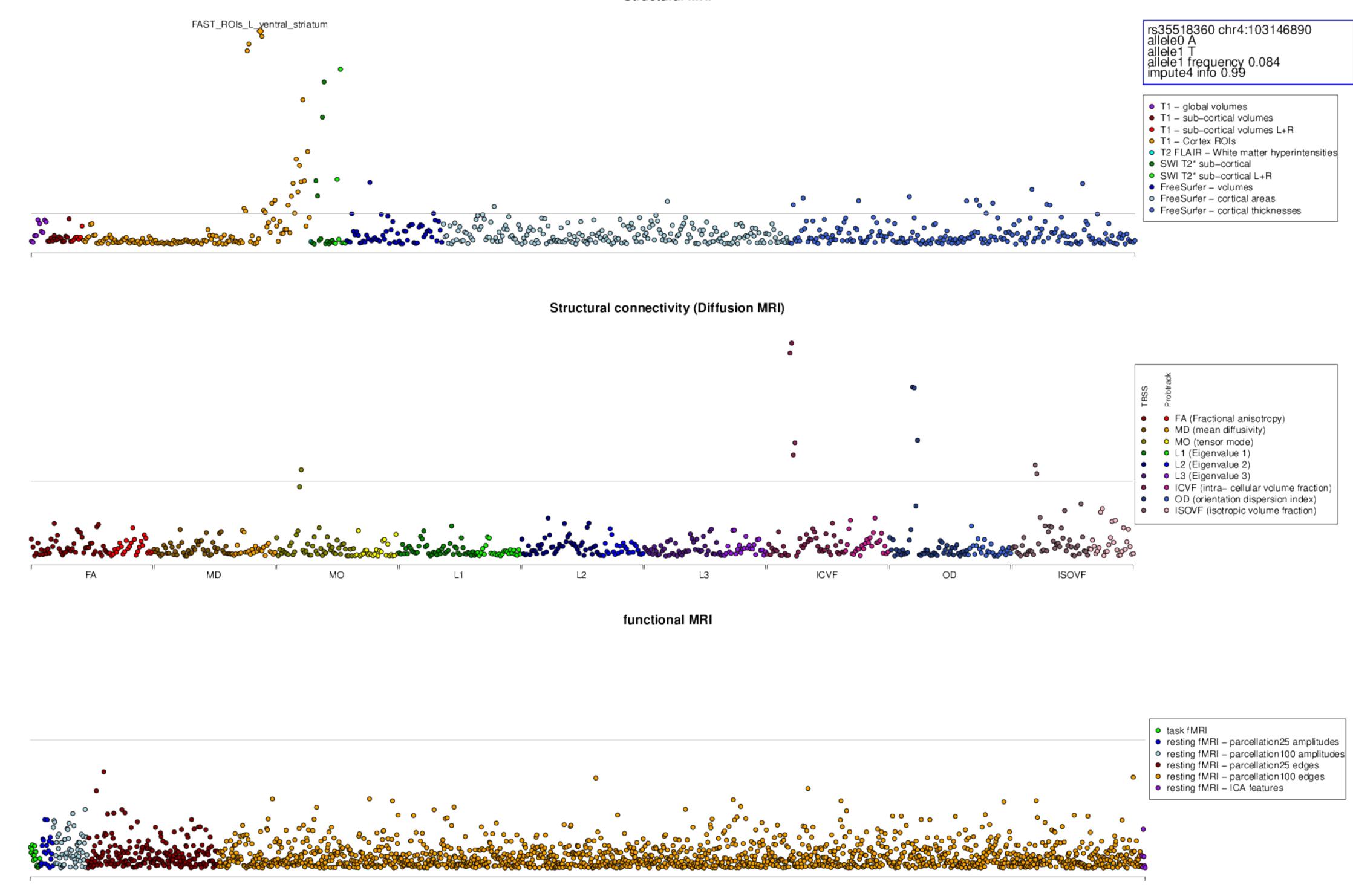


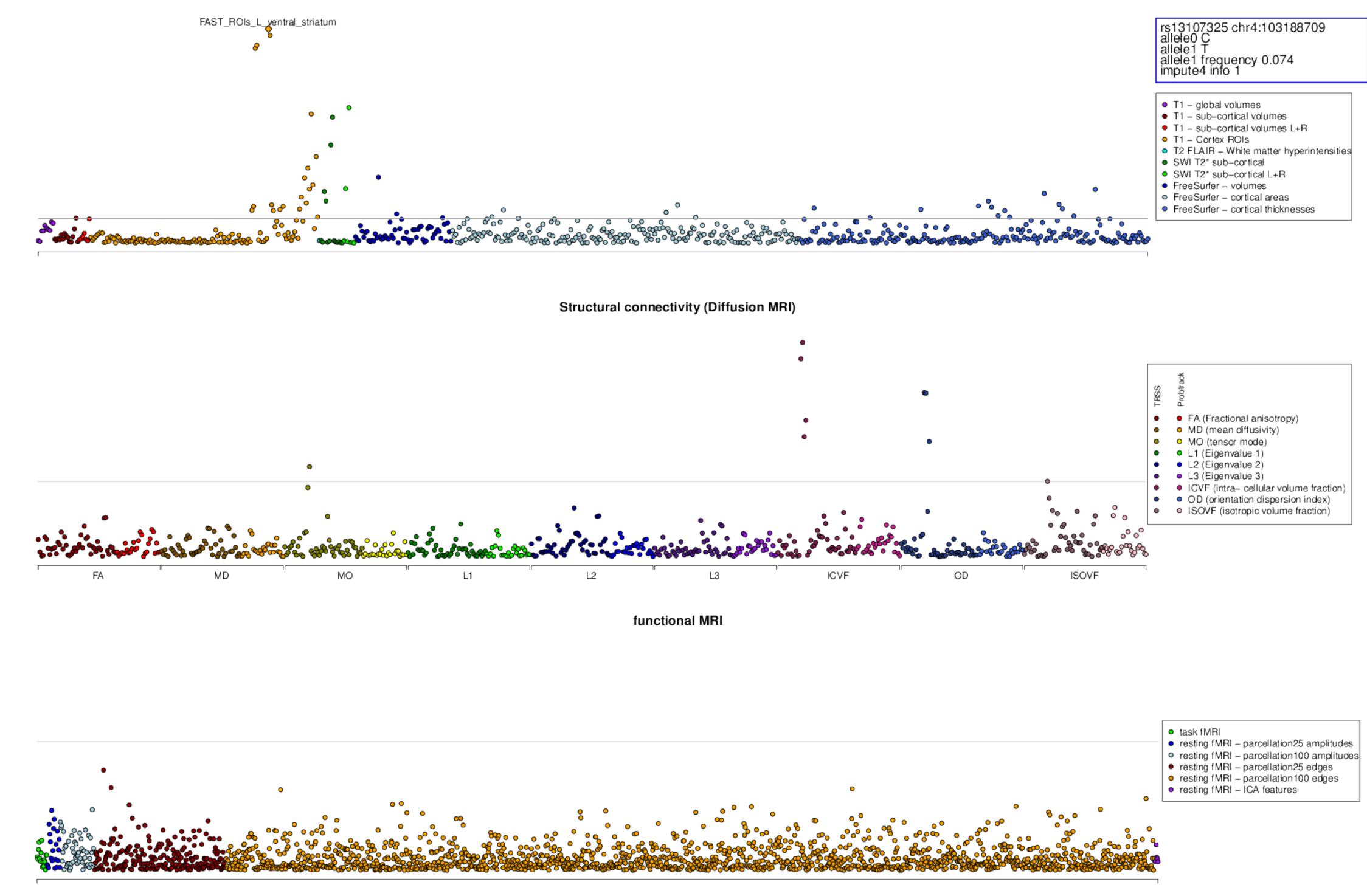


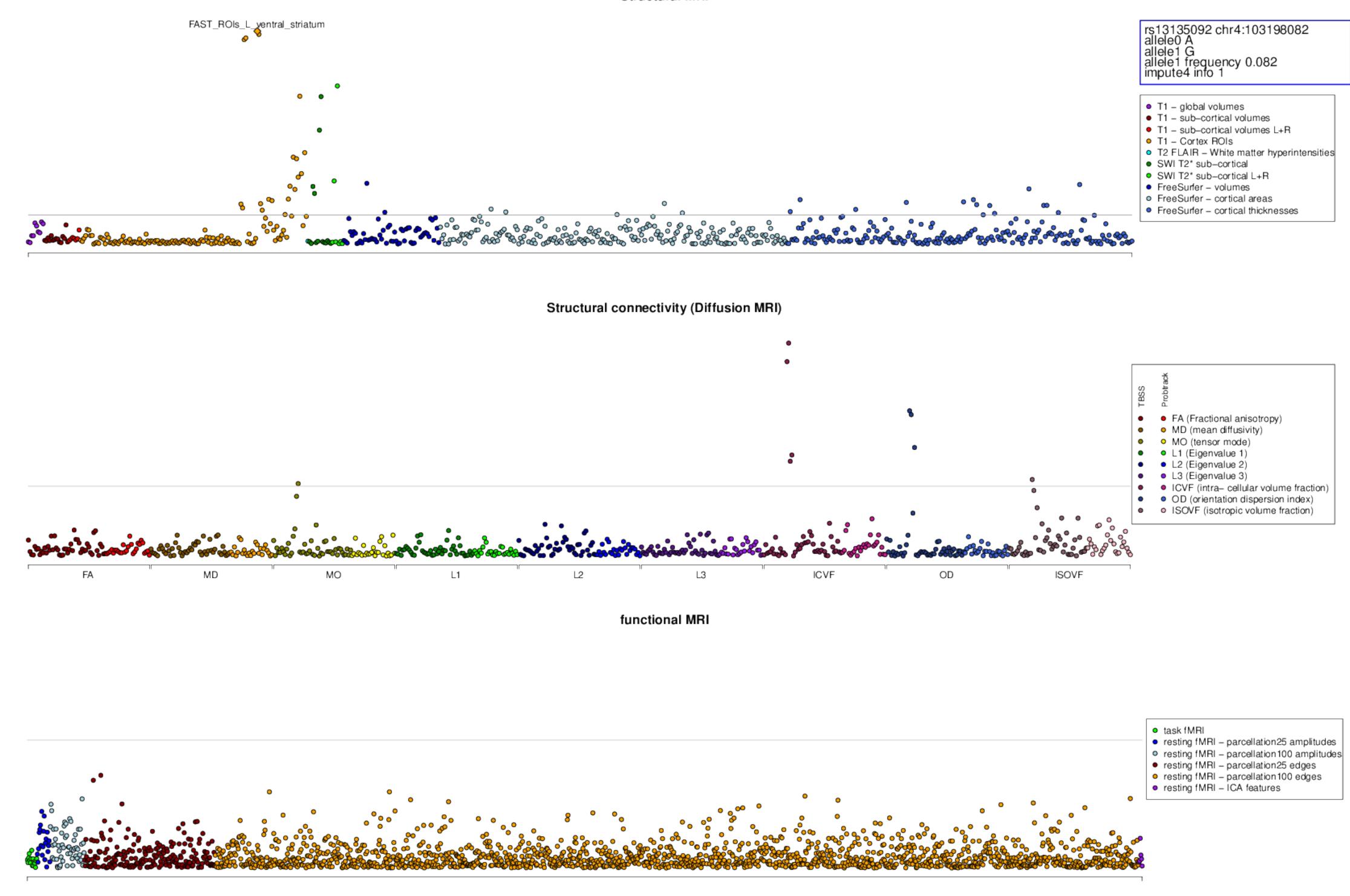


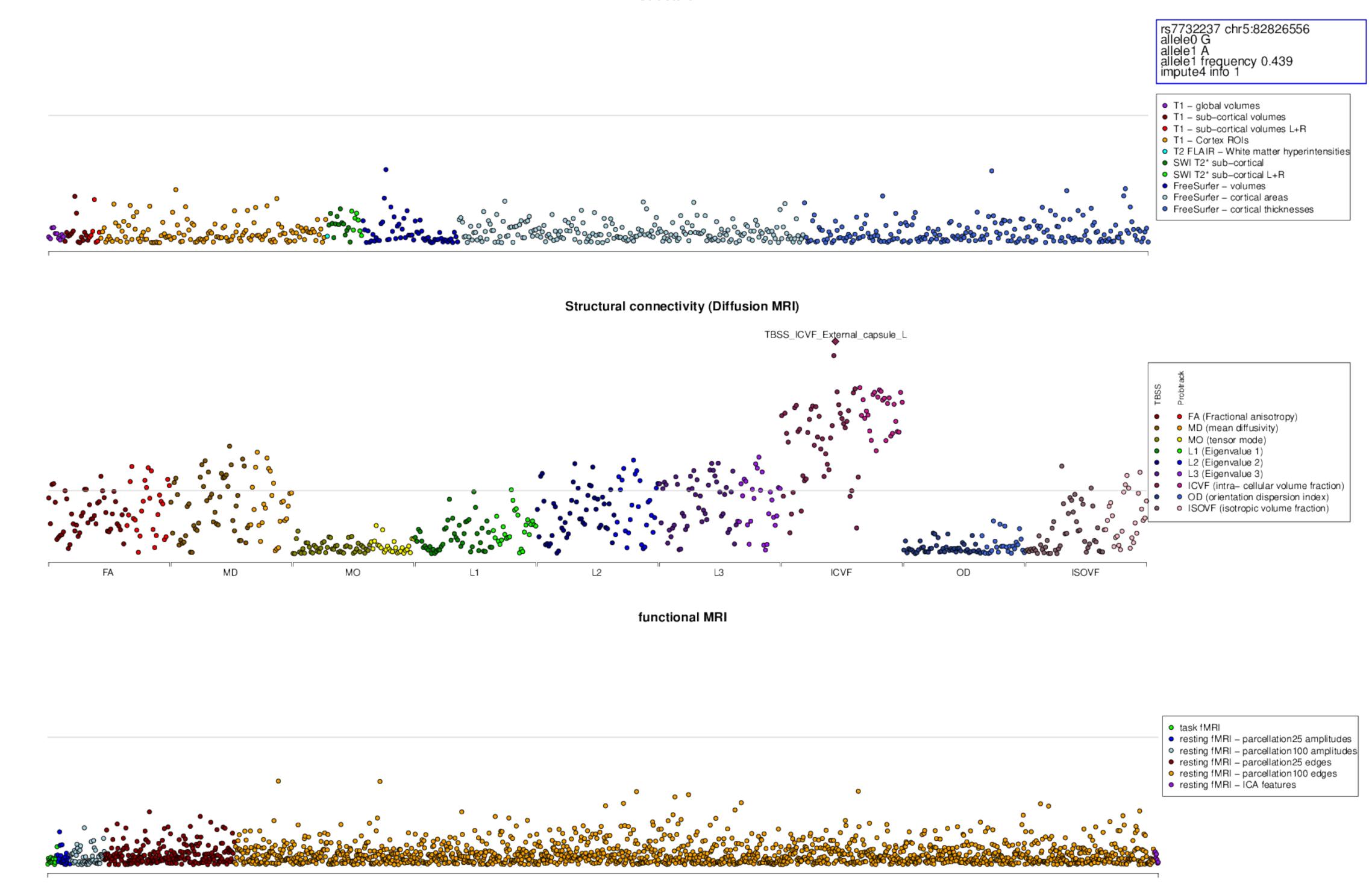


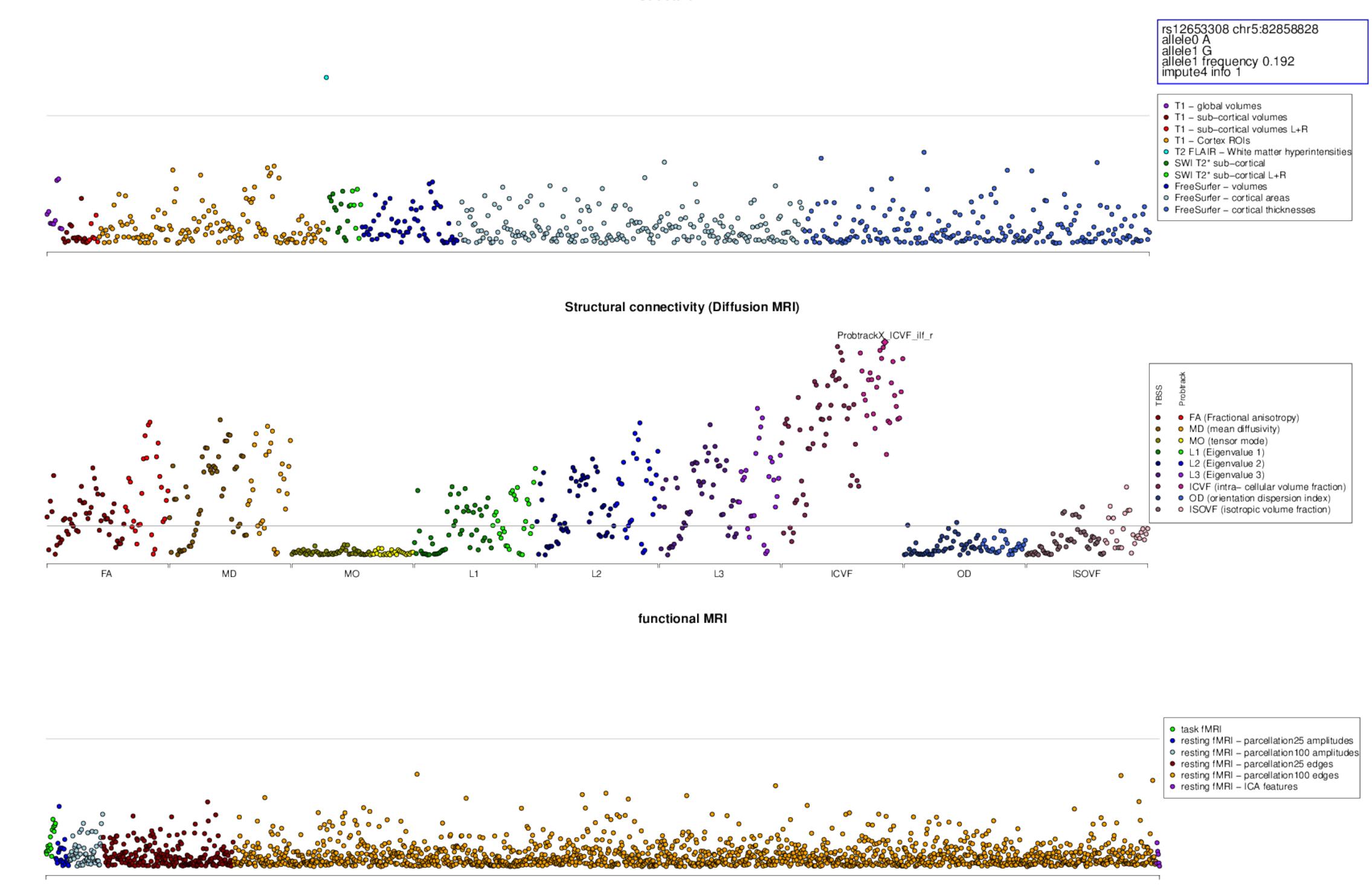


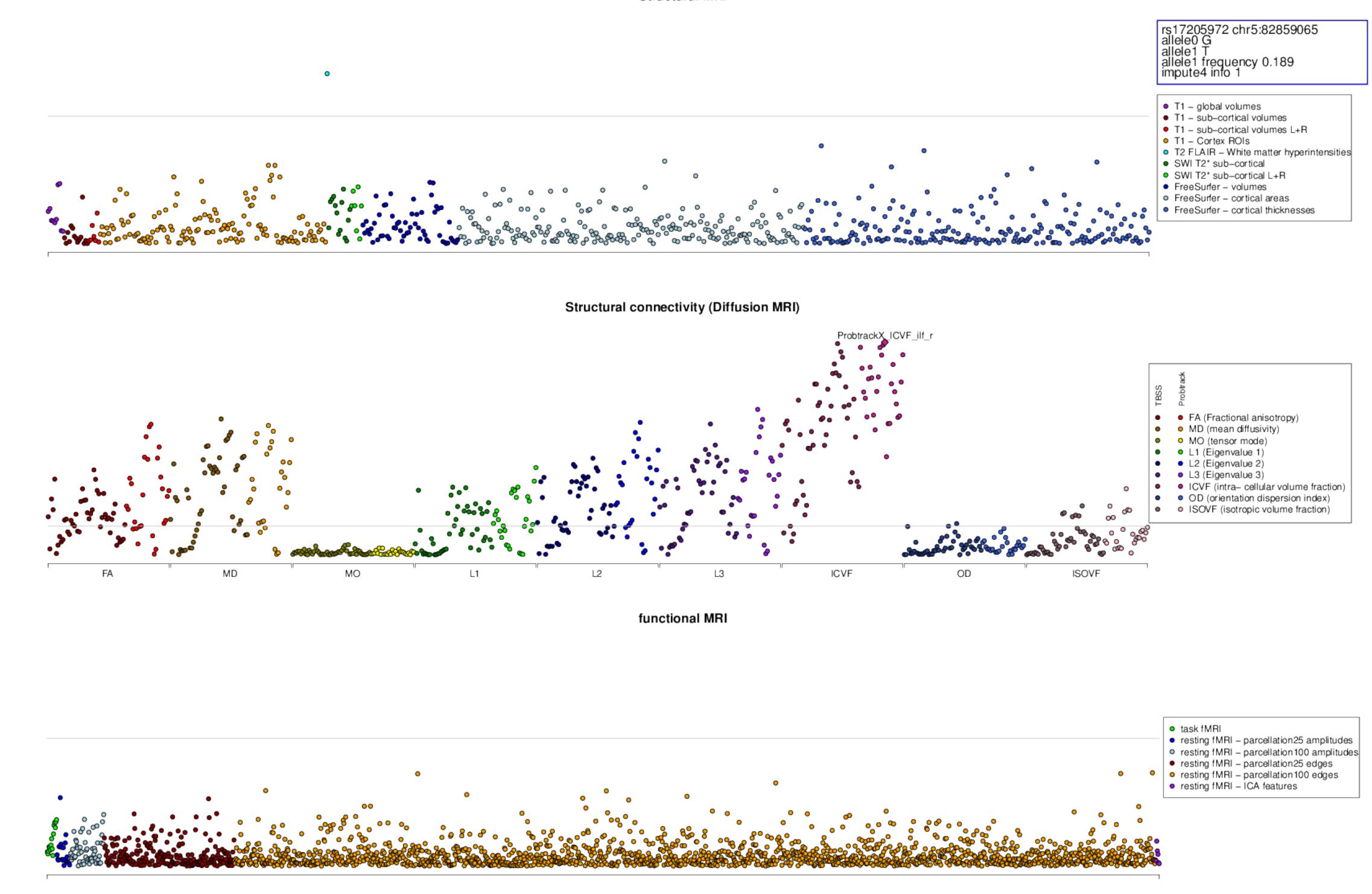


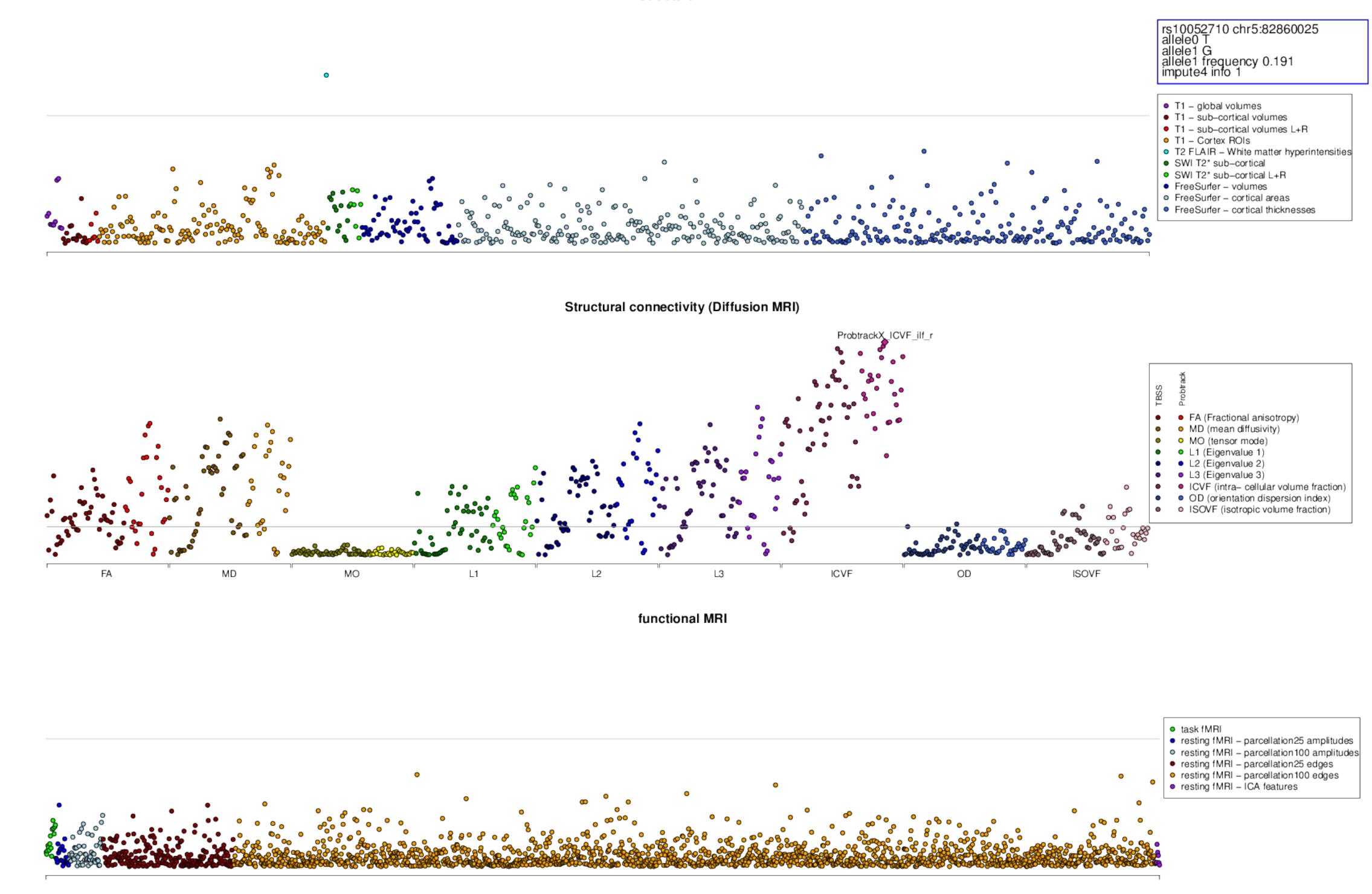


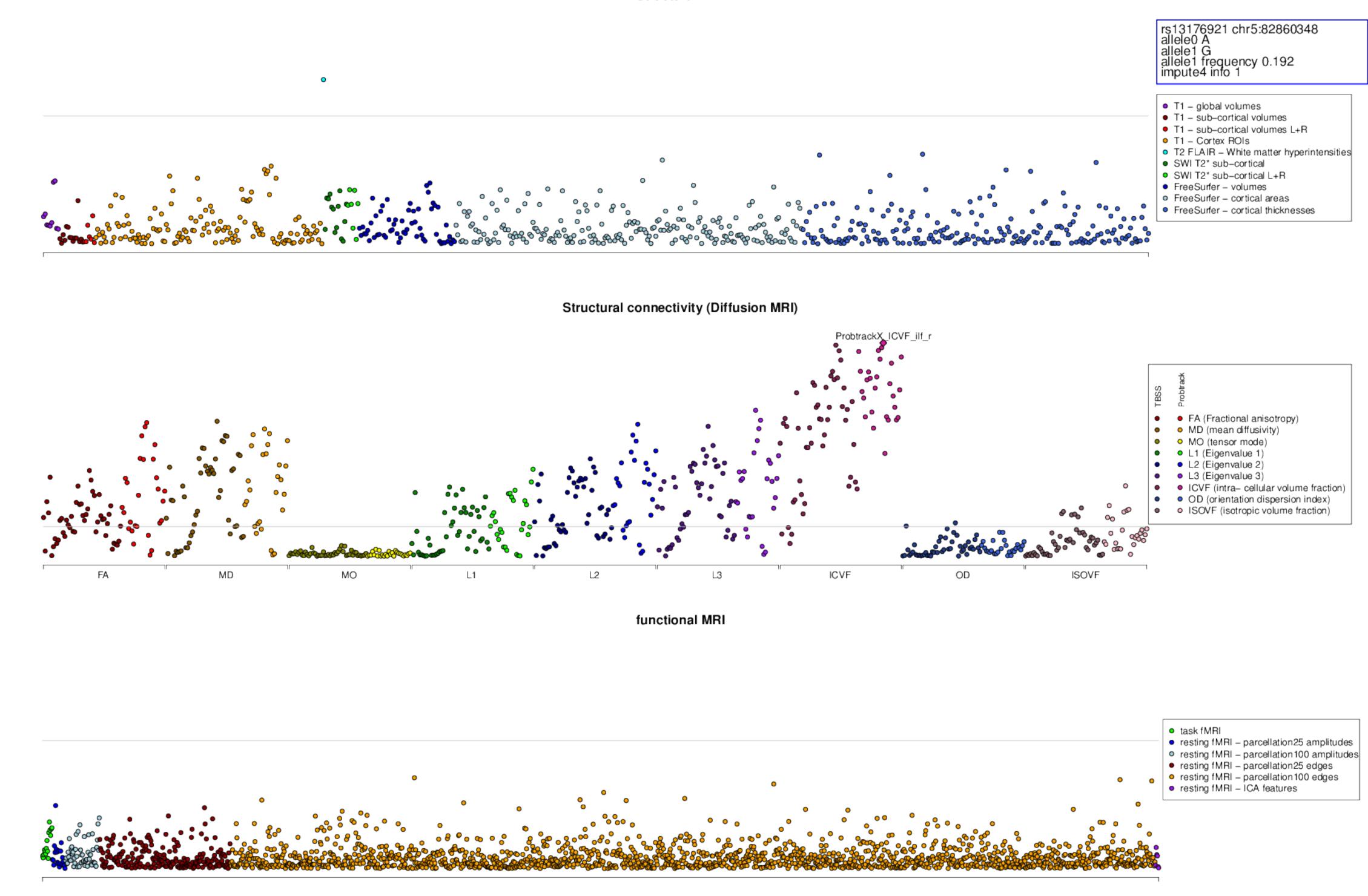


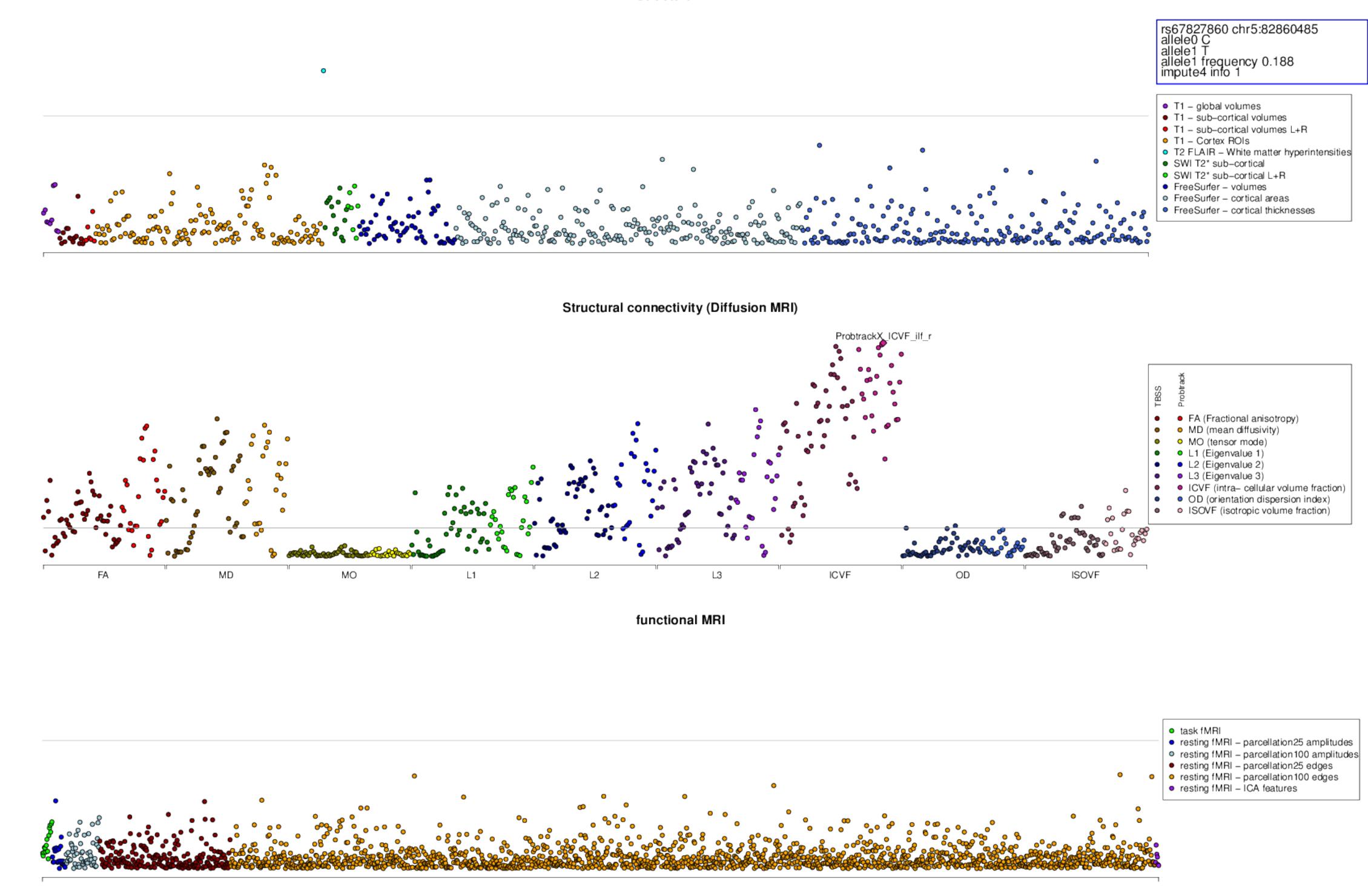


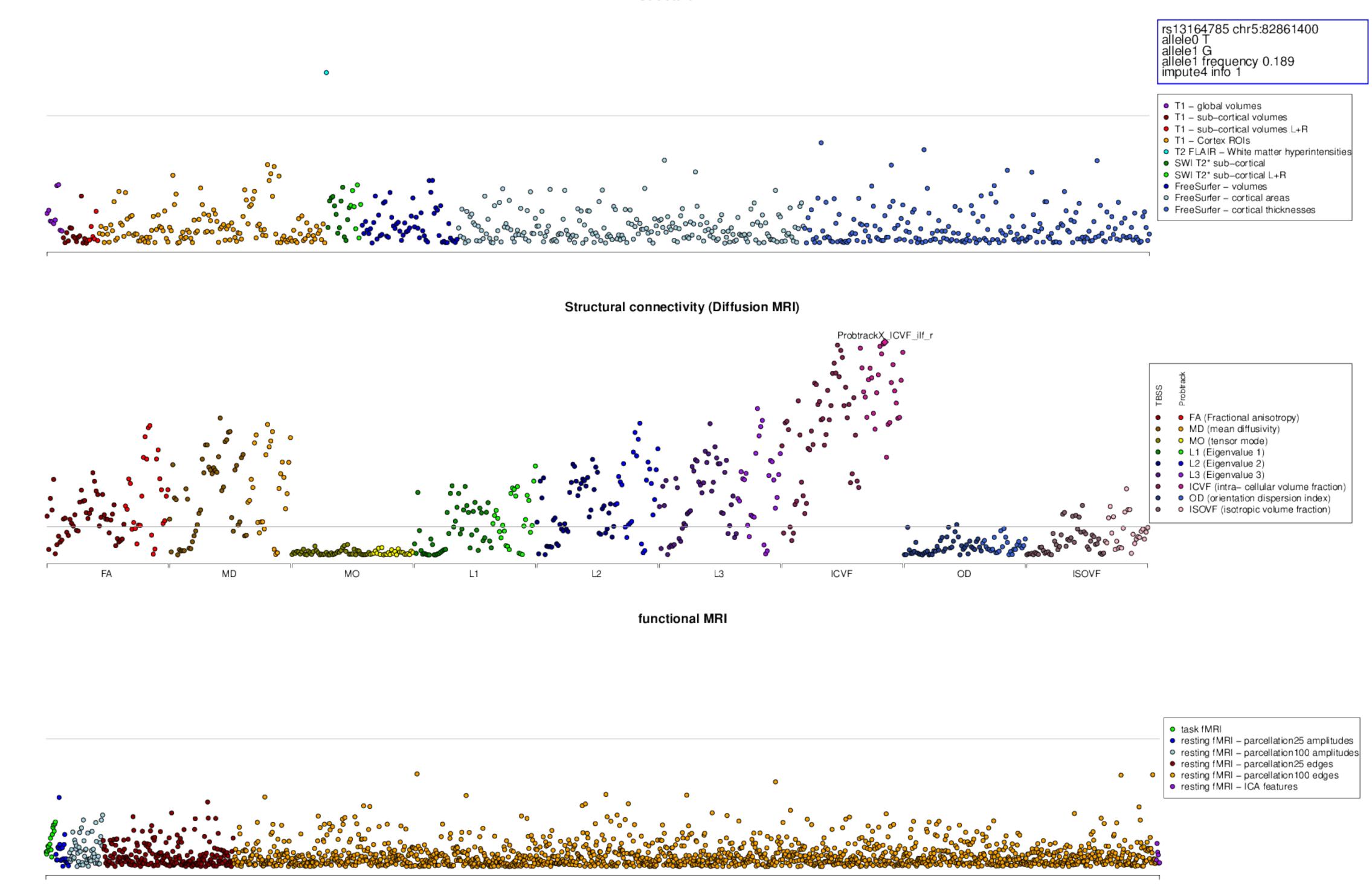




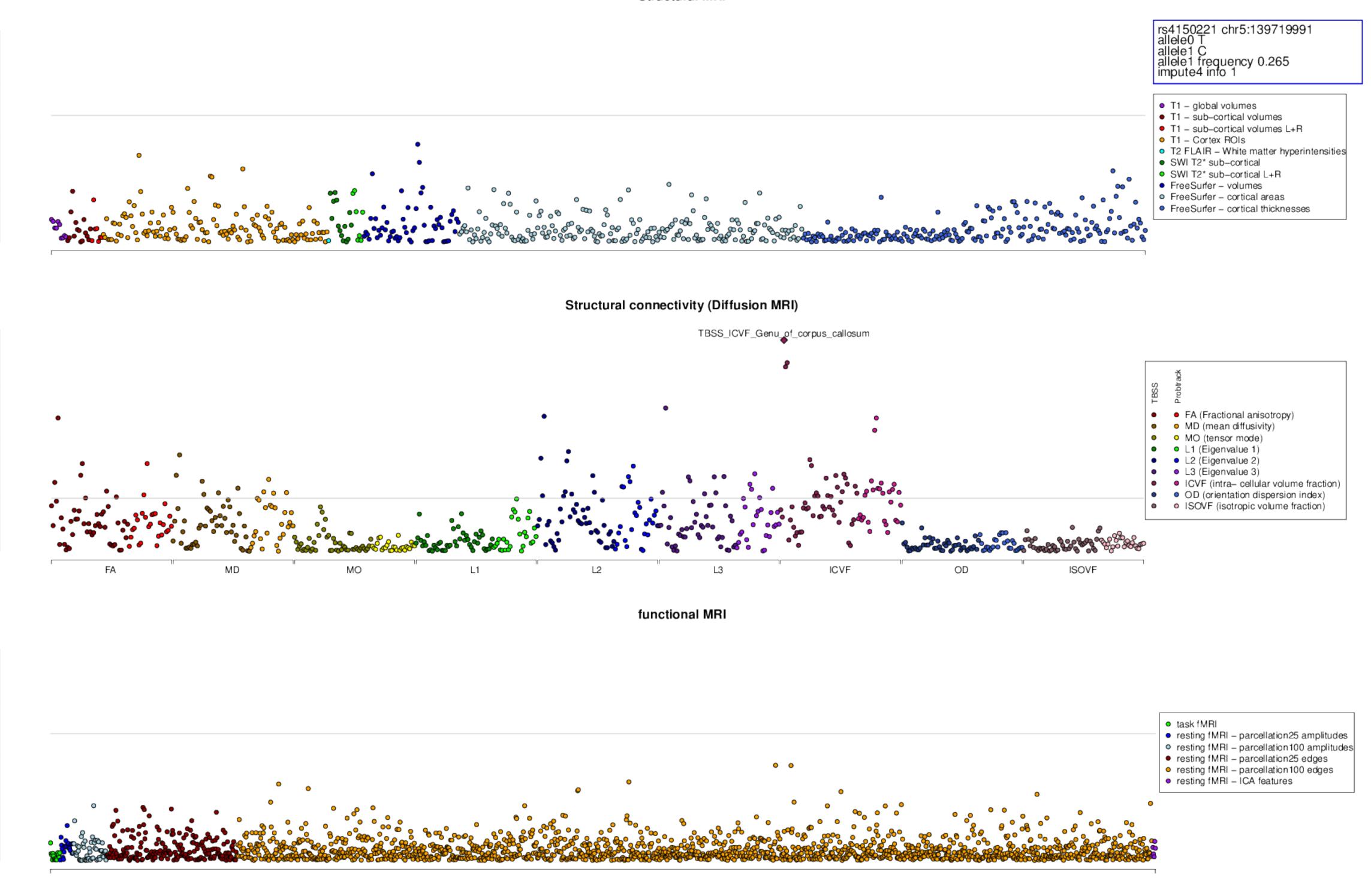


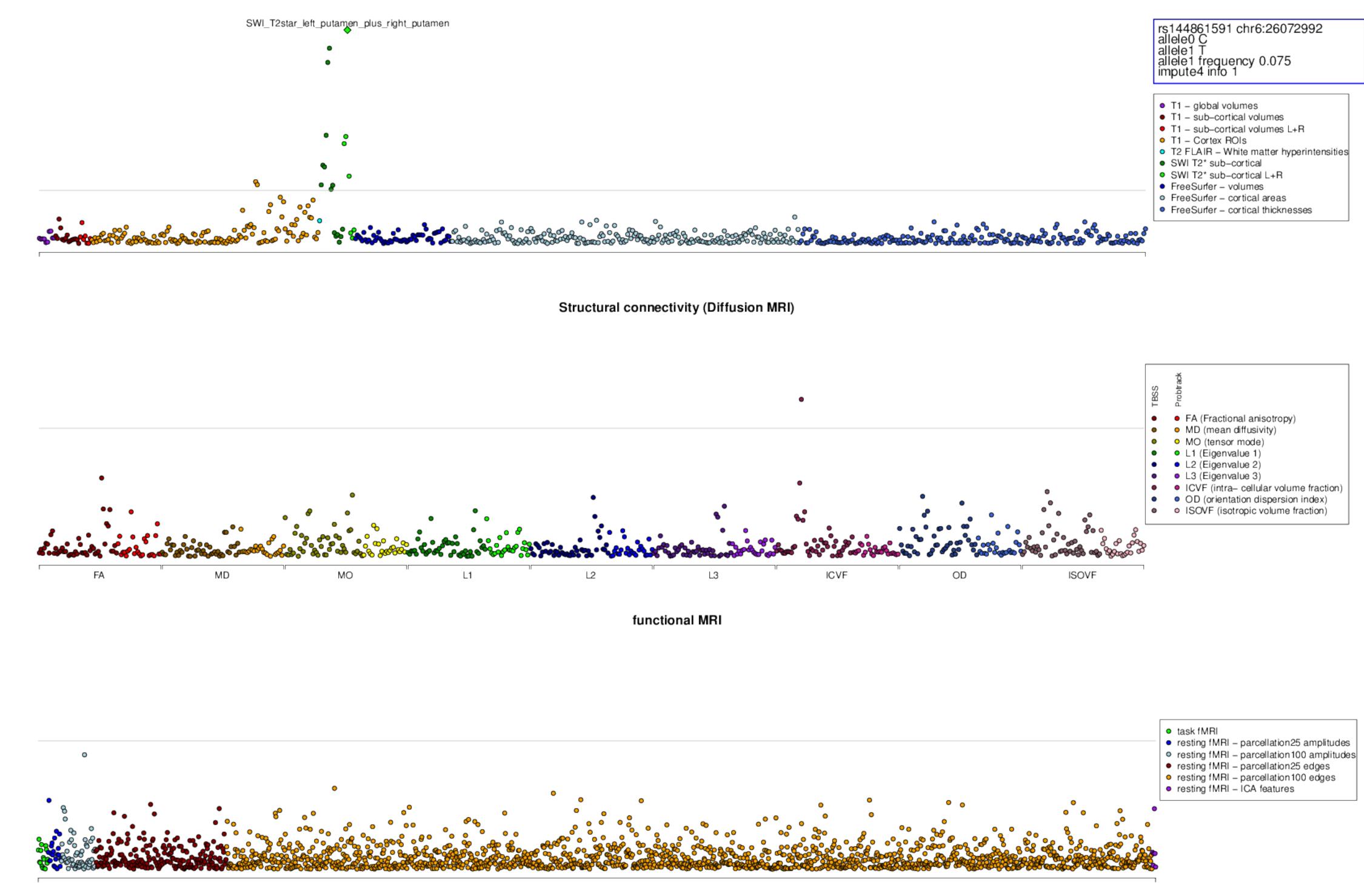


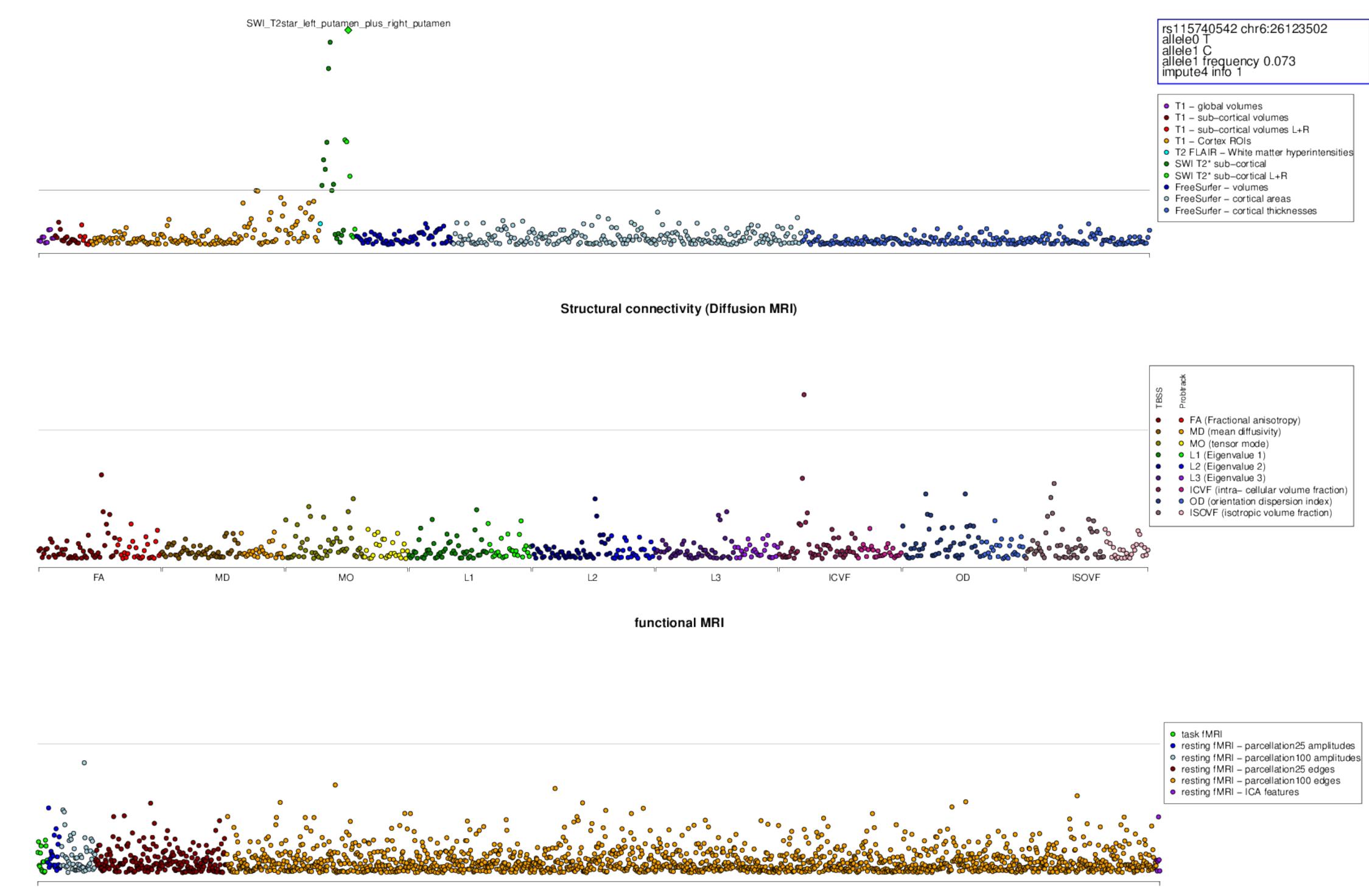


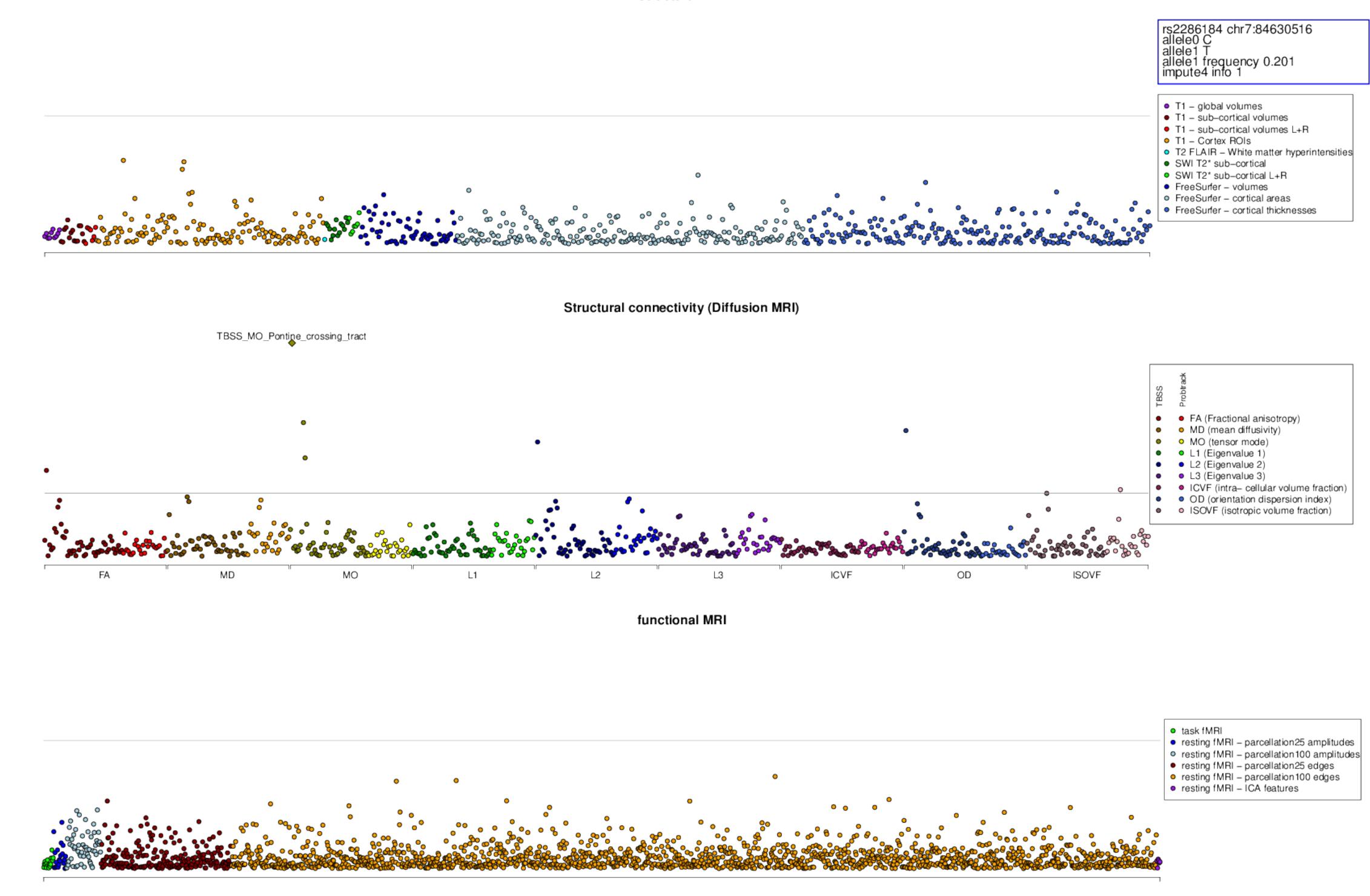


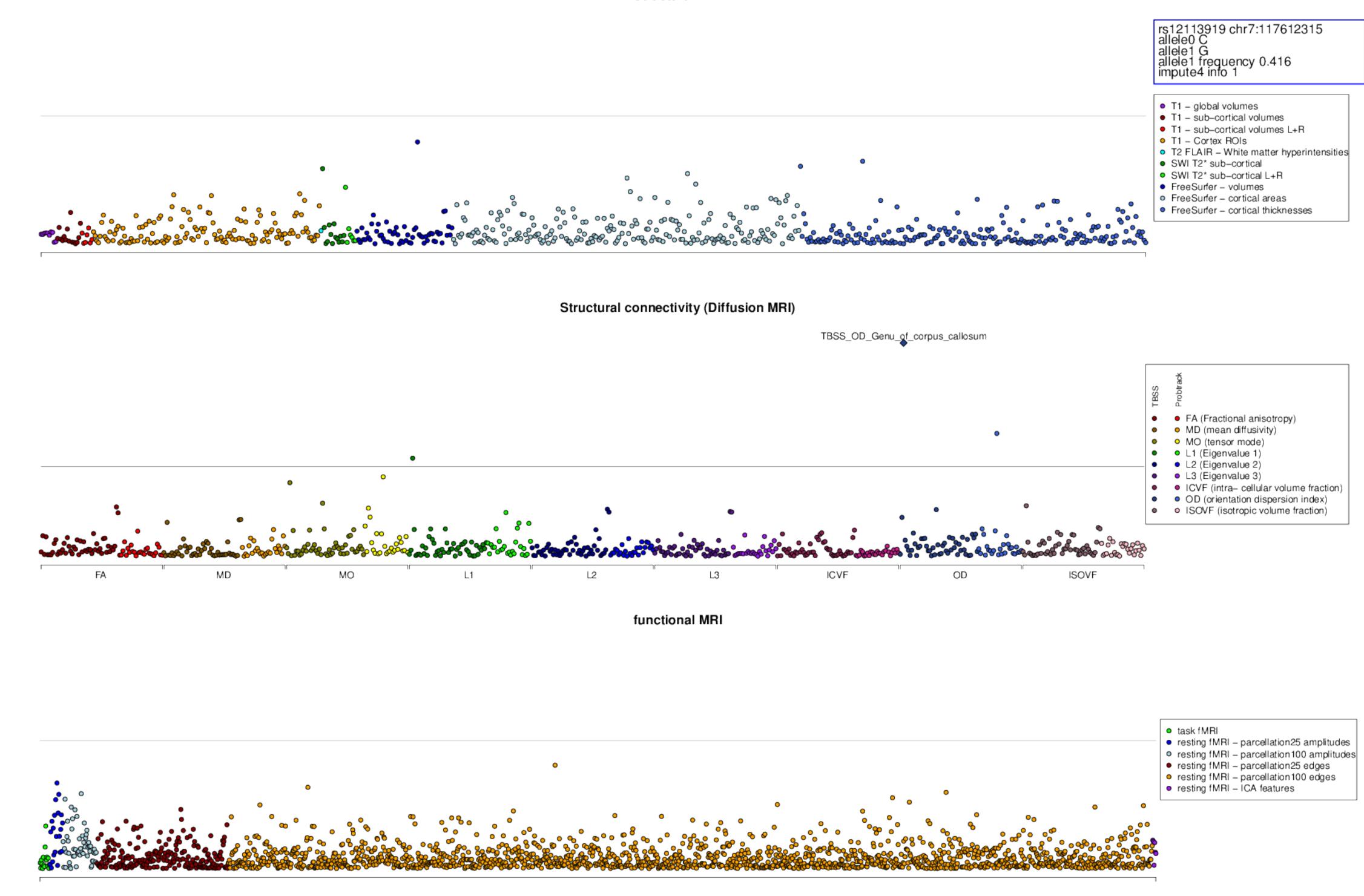
Structural MRI rs7442779 chr5:92788278 allele0 A allele1 G allele1 frequency 0.05 impute4 info 1 • T1 – global volumes T1 – sub–cortical volumes T1 – sub–cortical volumes L+R T1 – Cortex ROIs T2 FLAIR – White matter hyperintensities SWI T2* sub-cortical SWI T2* sub-cortical L+R FreeSurfer – volumes FreeSurfer – cortical areas FreeSurfer – cortical thicknesses Structural connectivity (Diffusion MRI) FA (Fractional anisotropy) MD (mean diffusivity) MO (tensor mode) L1 (Eigenvalue 1) L2 (Eigenvalue 2) L3 (Eigenvalue 3) ICVF (intra- cellular volume fraction) OD (orientation dispersion index) ISOVF (isotropic volume fraction) MD МО OD FΑ L1 L2 L3 **ICVF** ISOVF functional MRI netmat_edge_ICA_004 task fMRI resting fMRI – parcellation25 amplitudes resting fMRI – parcellation100 amplitudes resting fMRI – parcellation25 edges resting fMRI – parcellation100 edges resting fMRI – ICA features

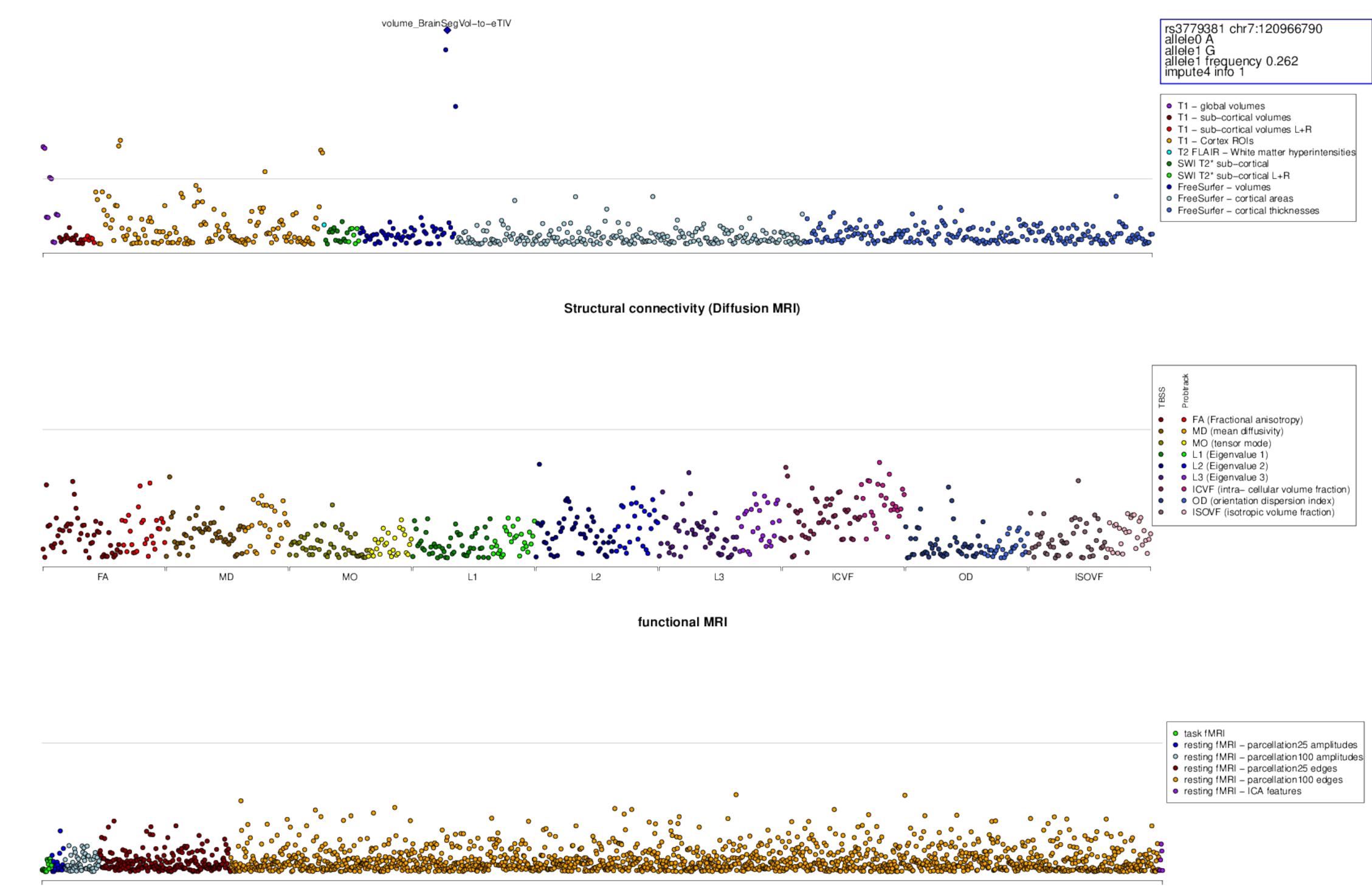


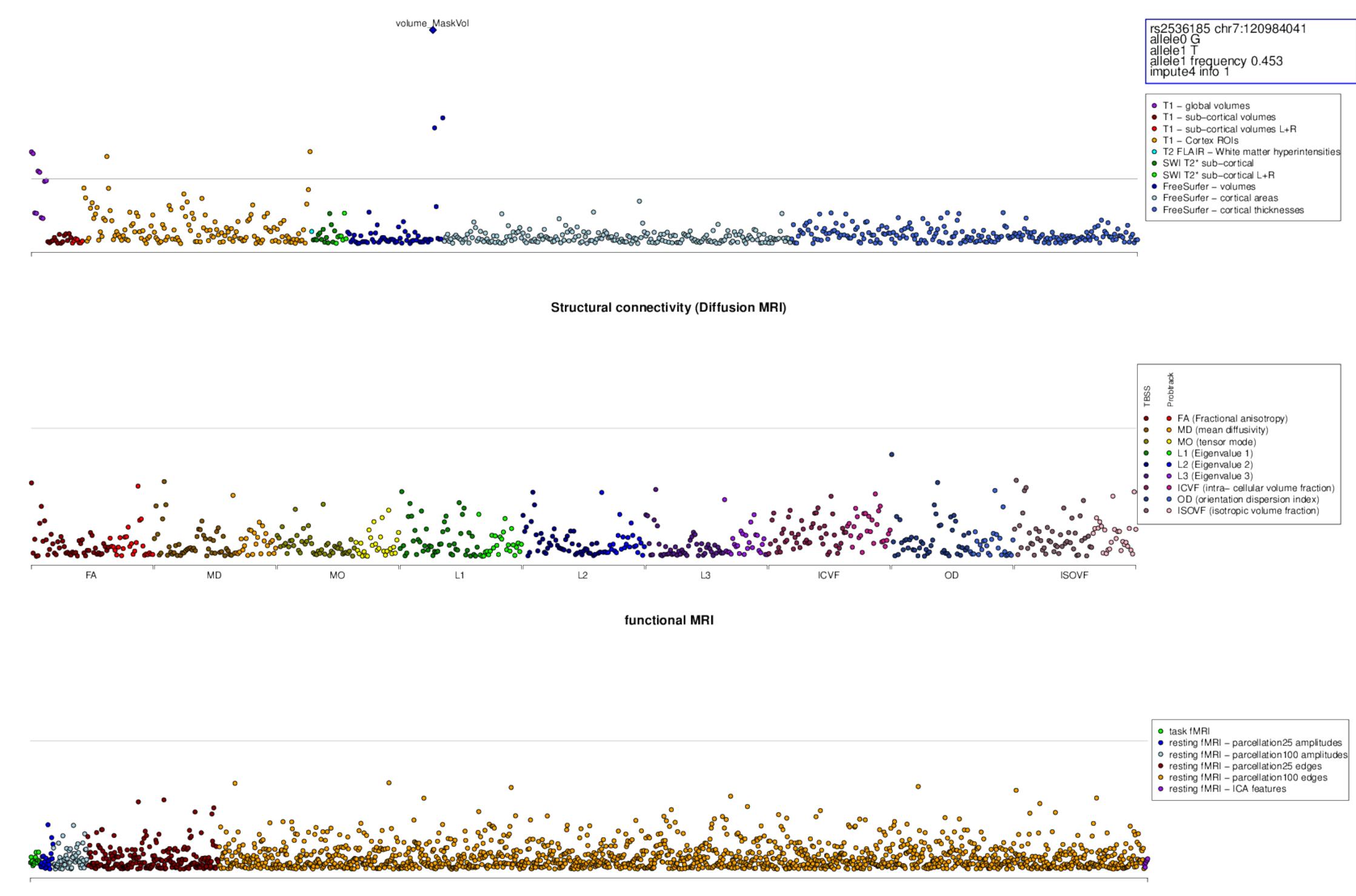


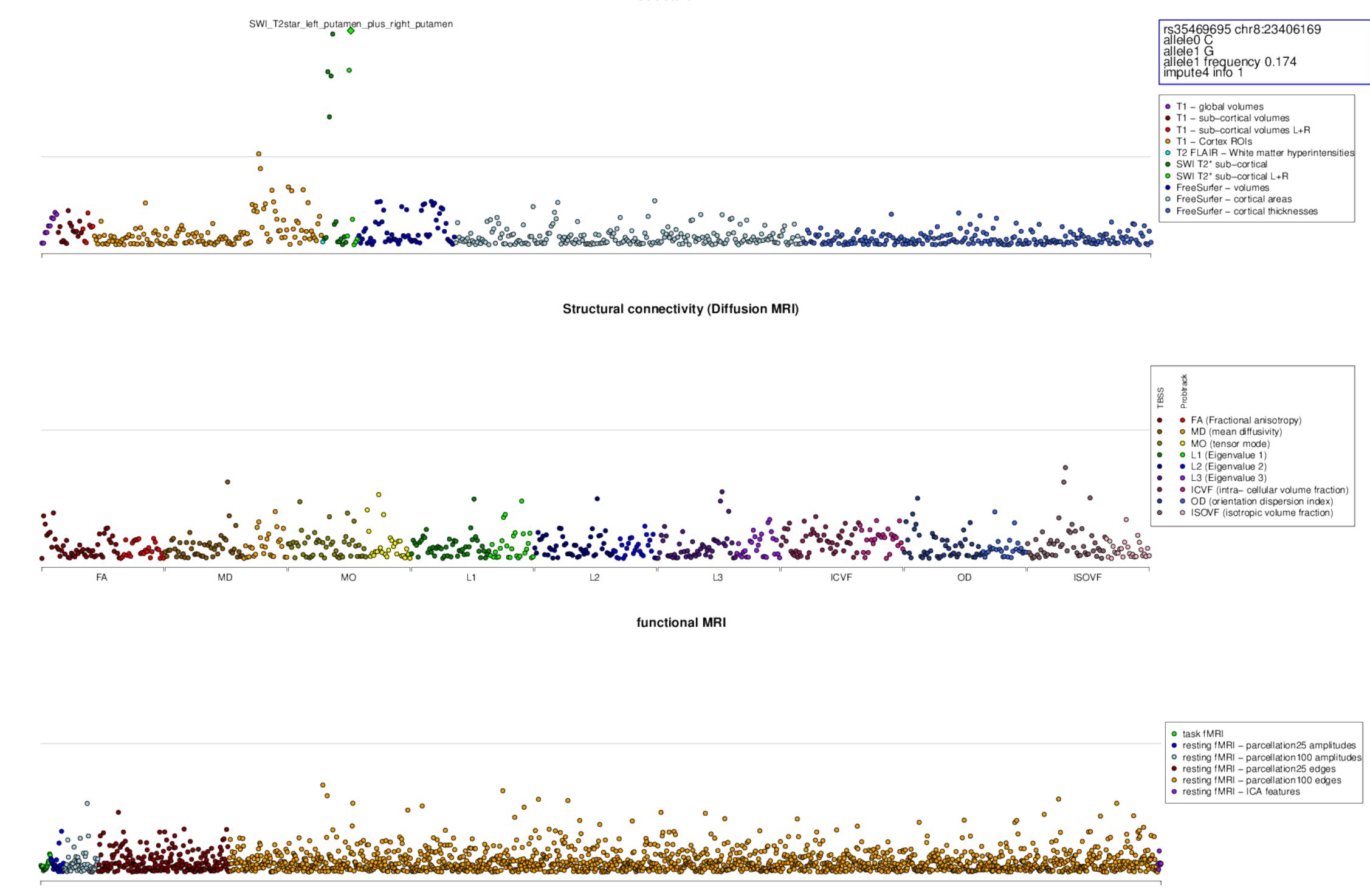


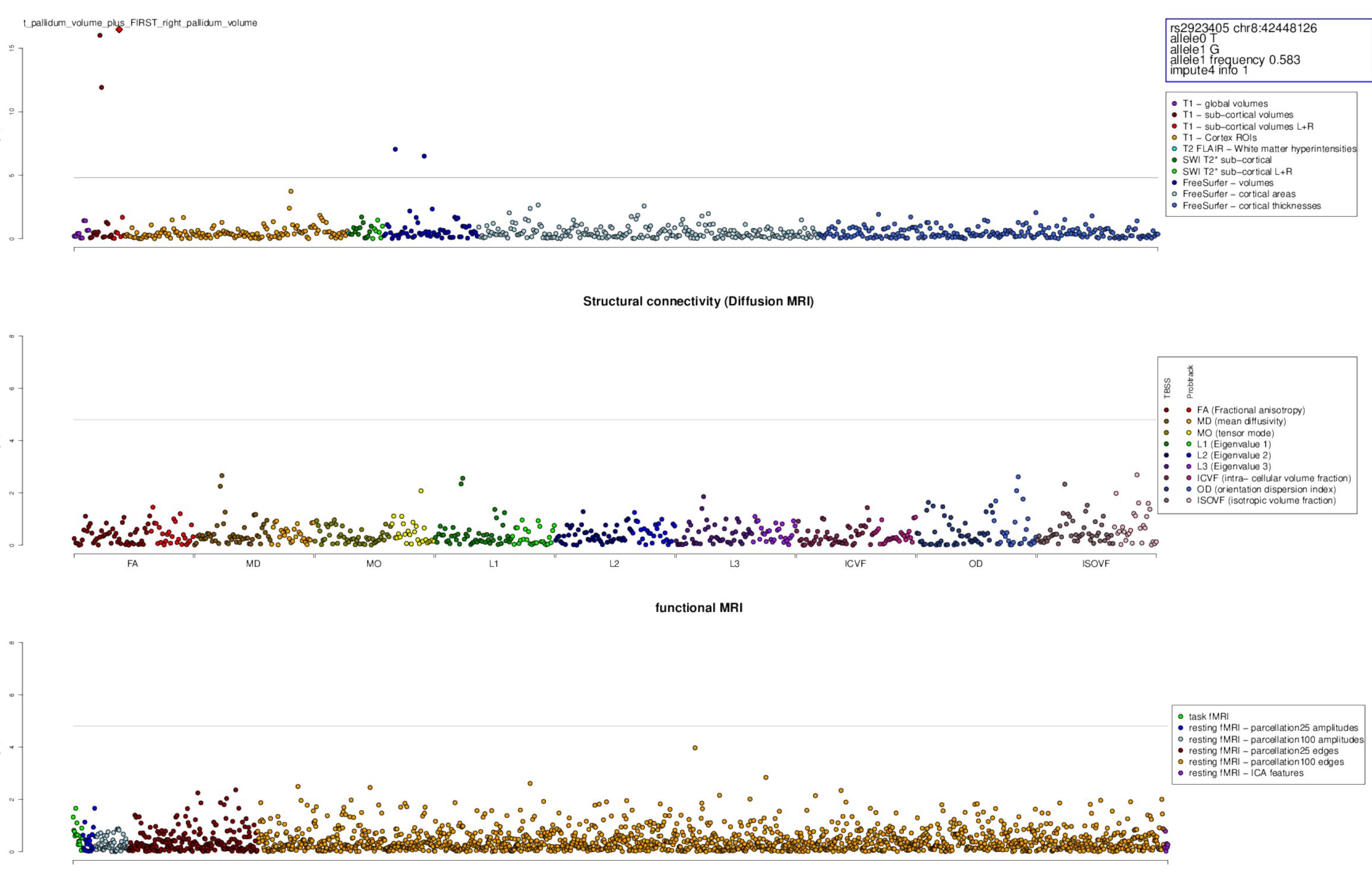


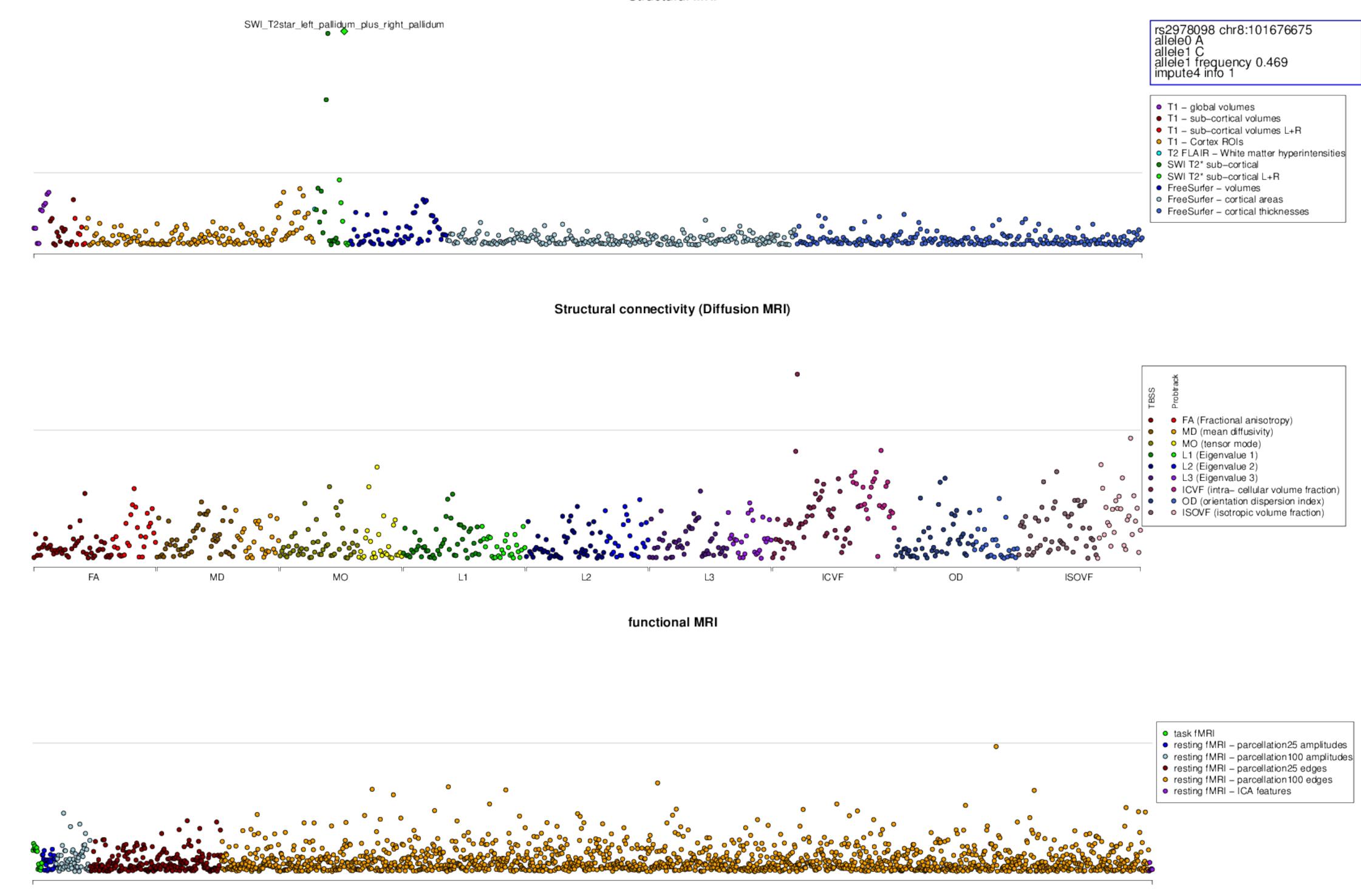


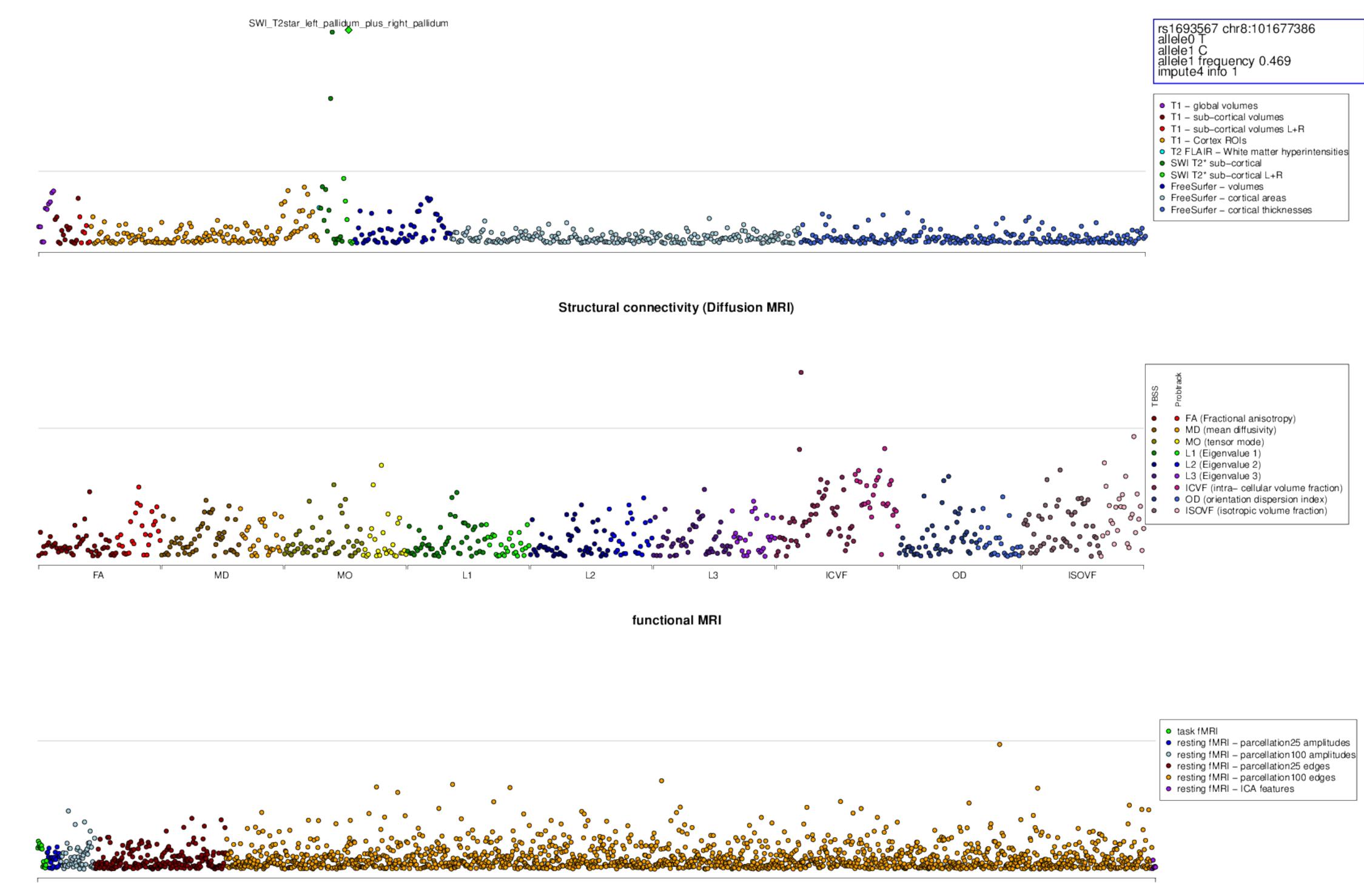


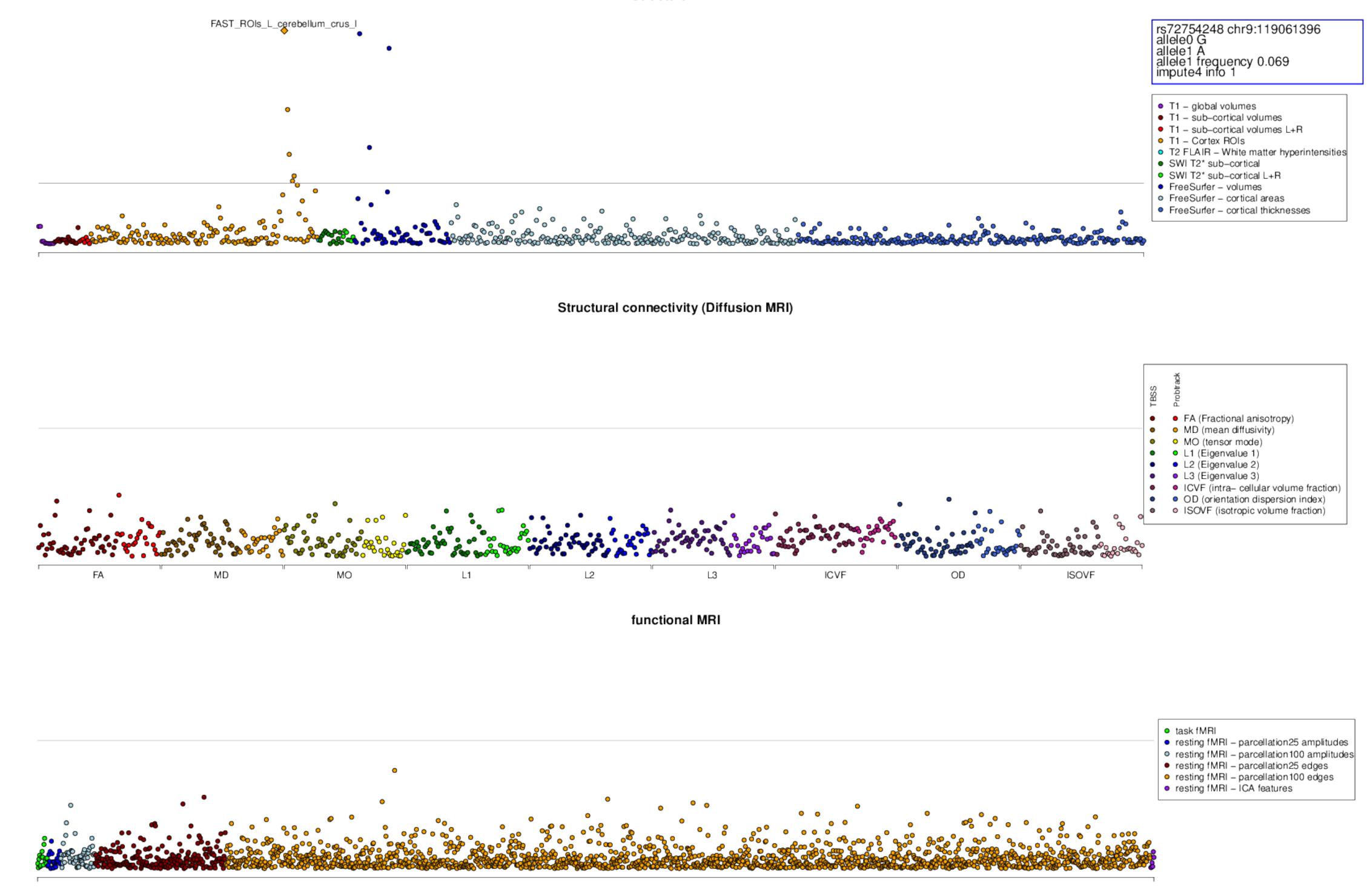


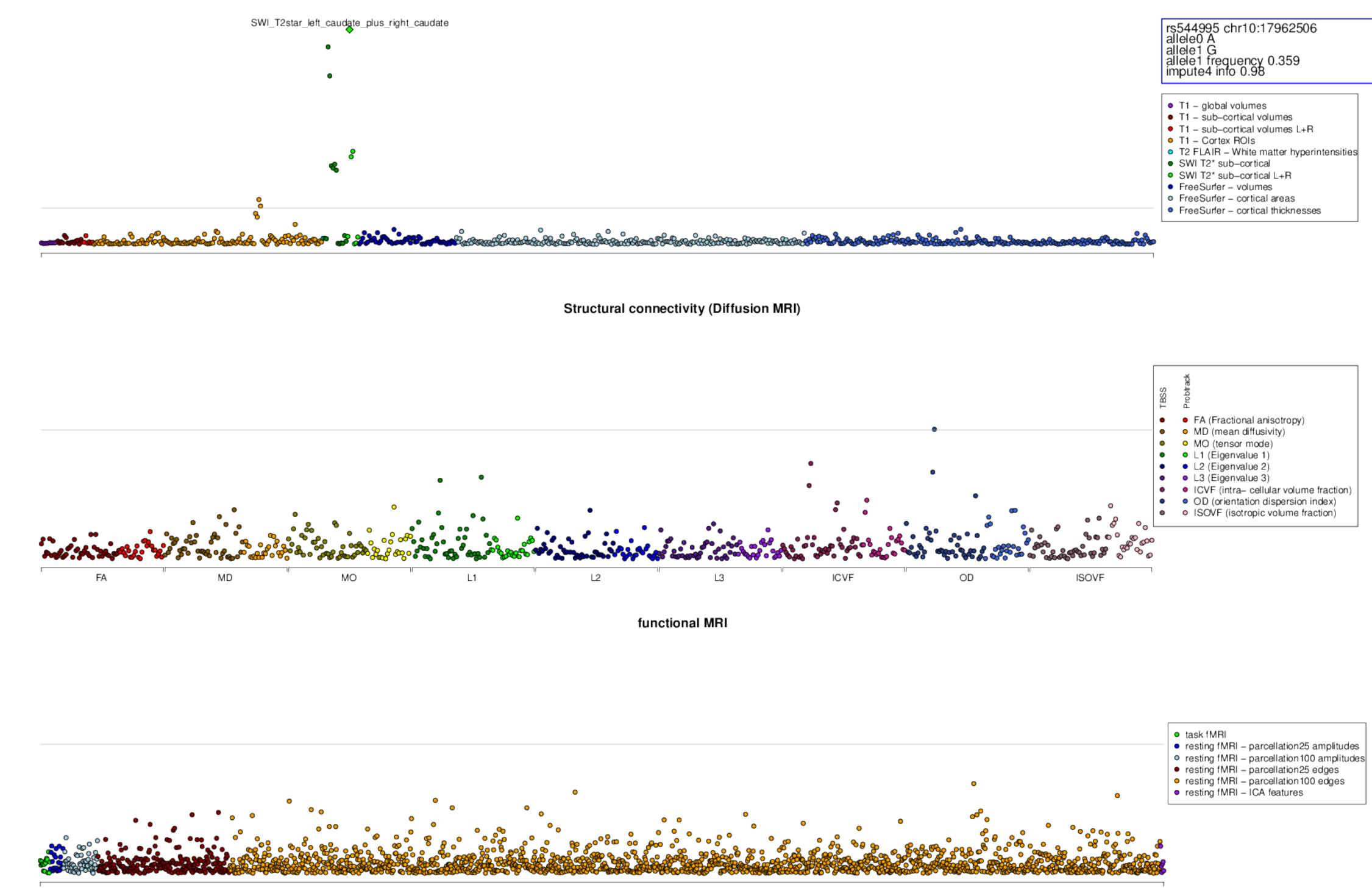


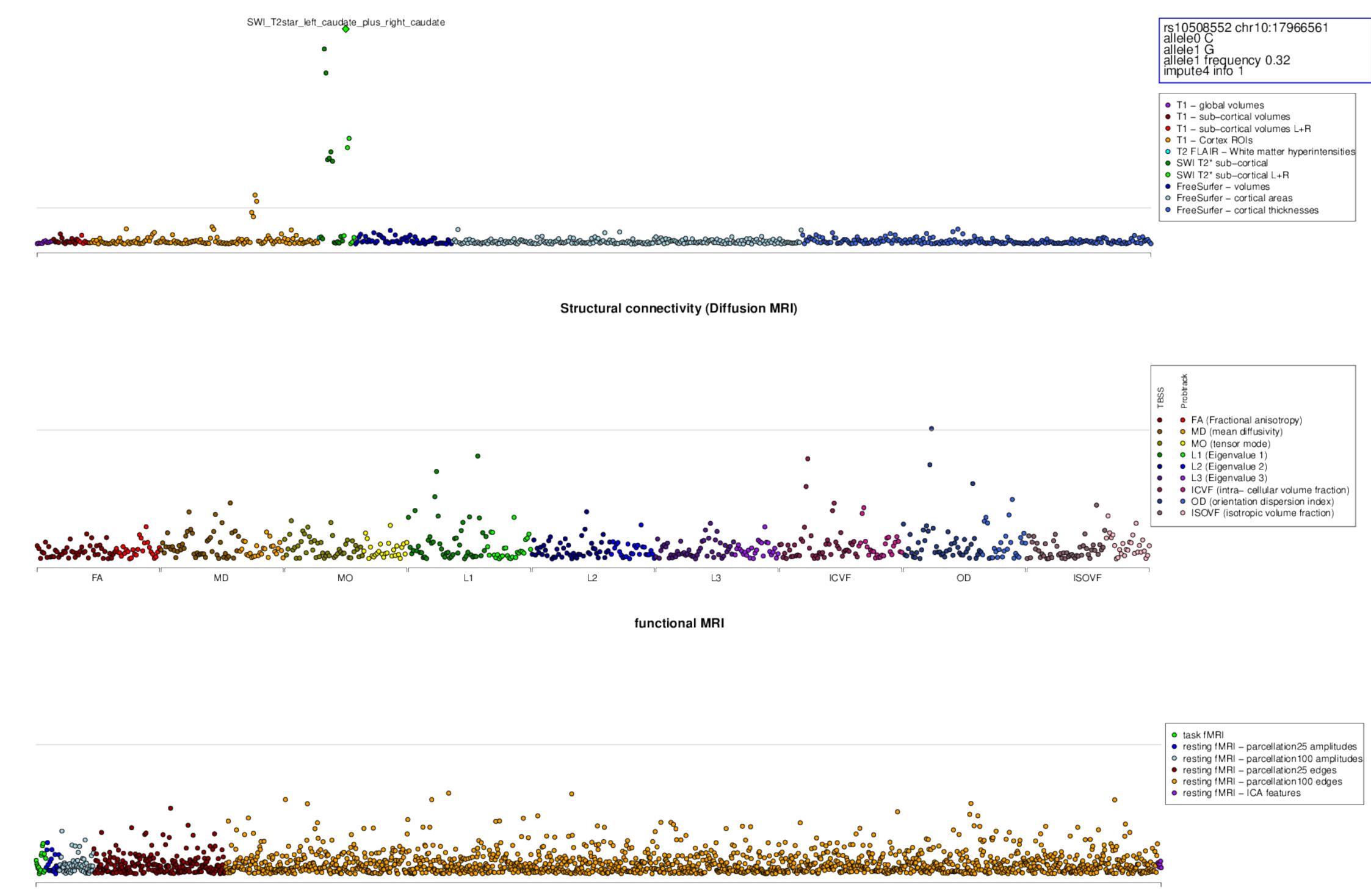


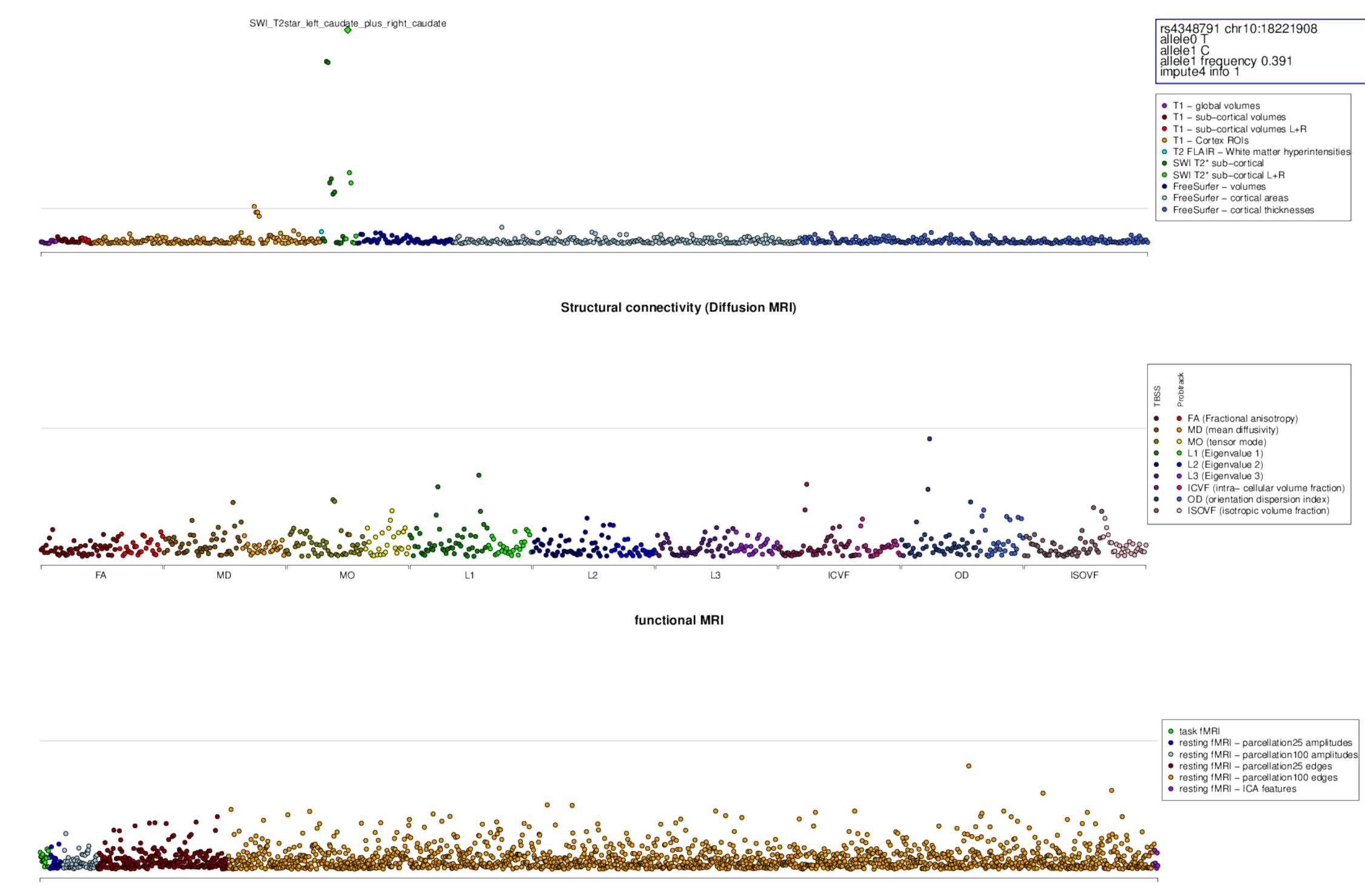


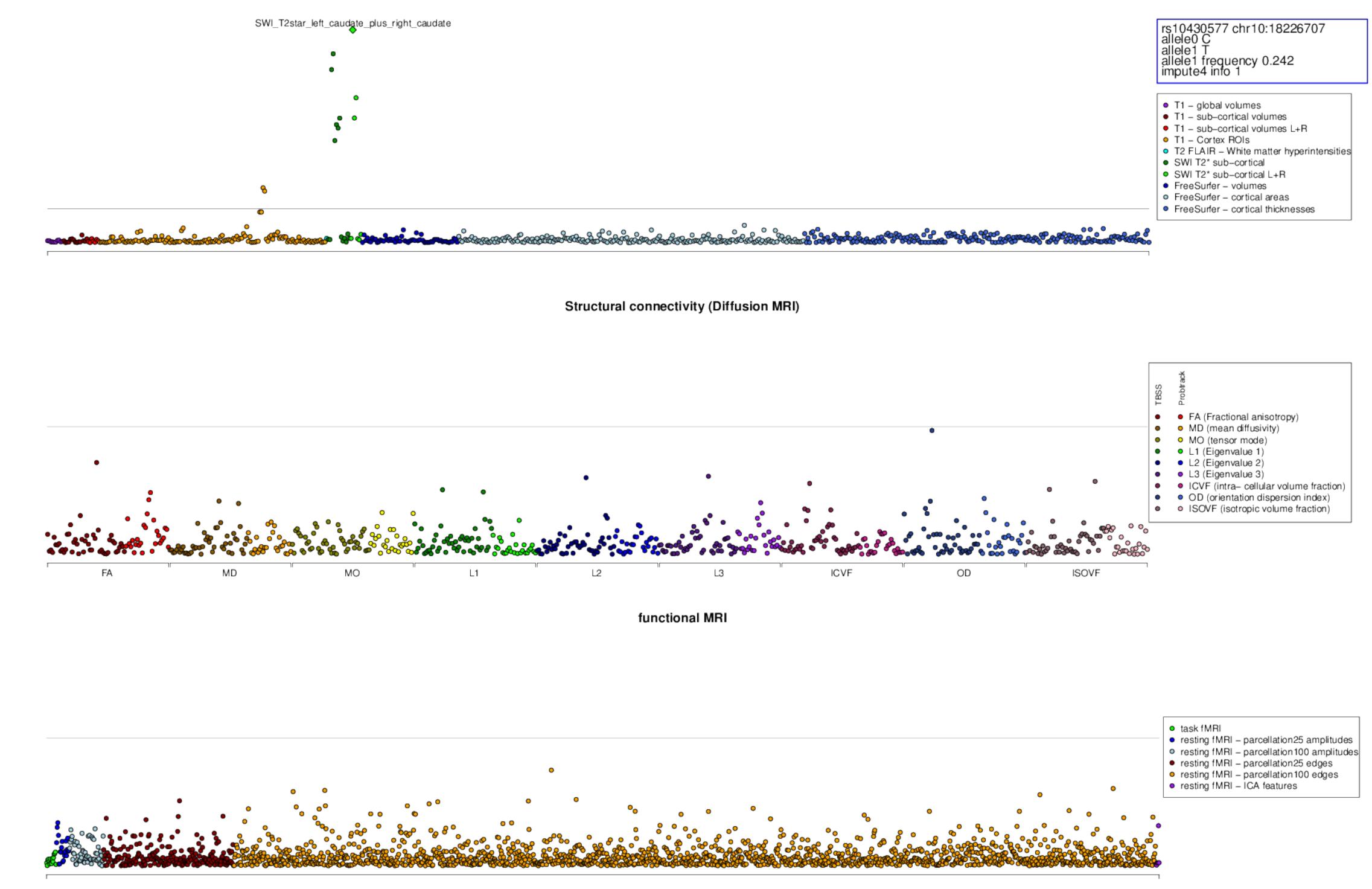


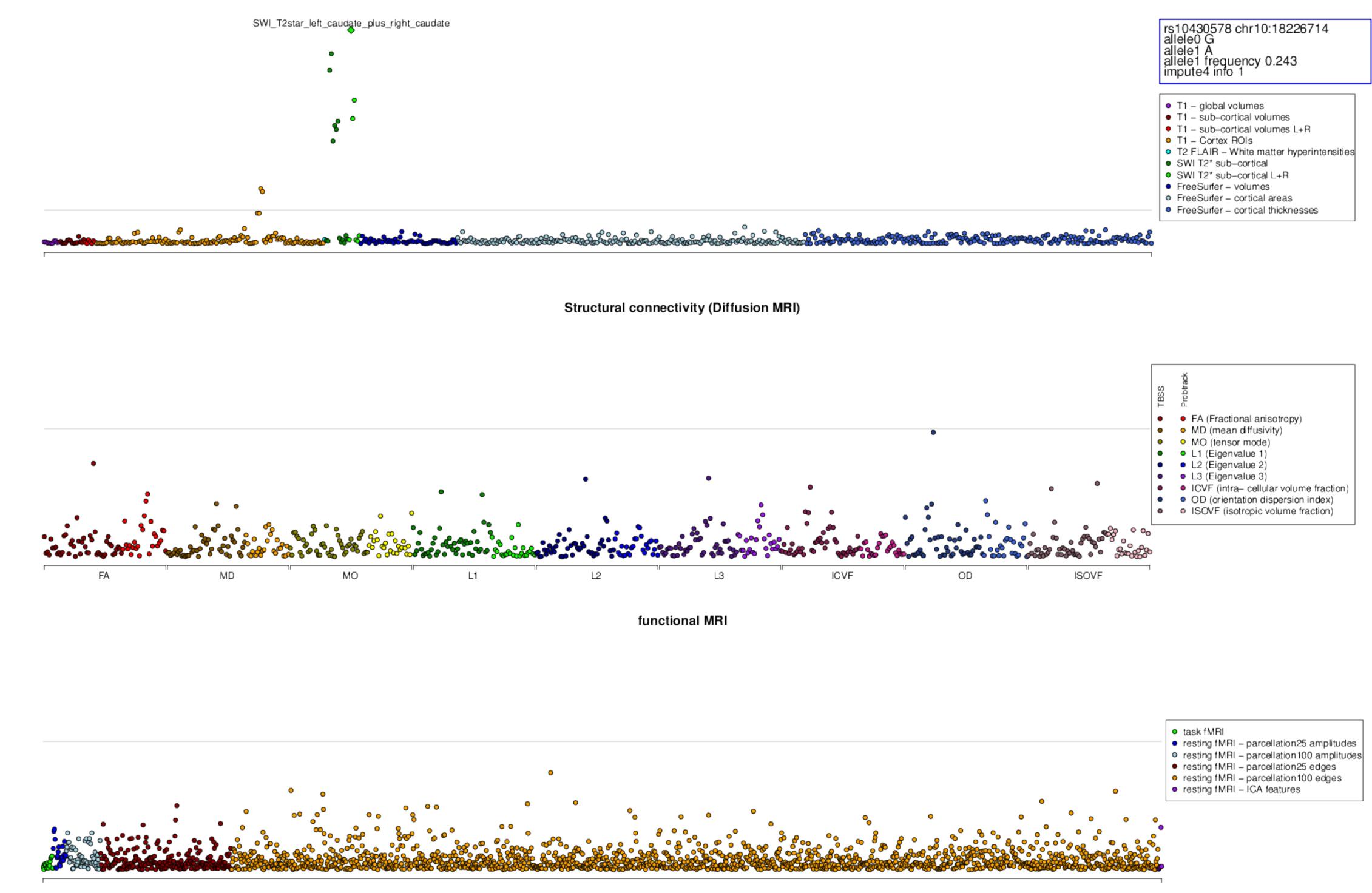


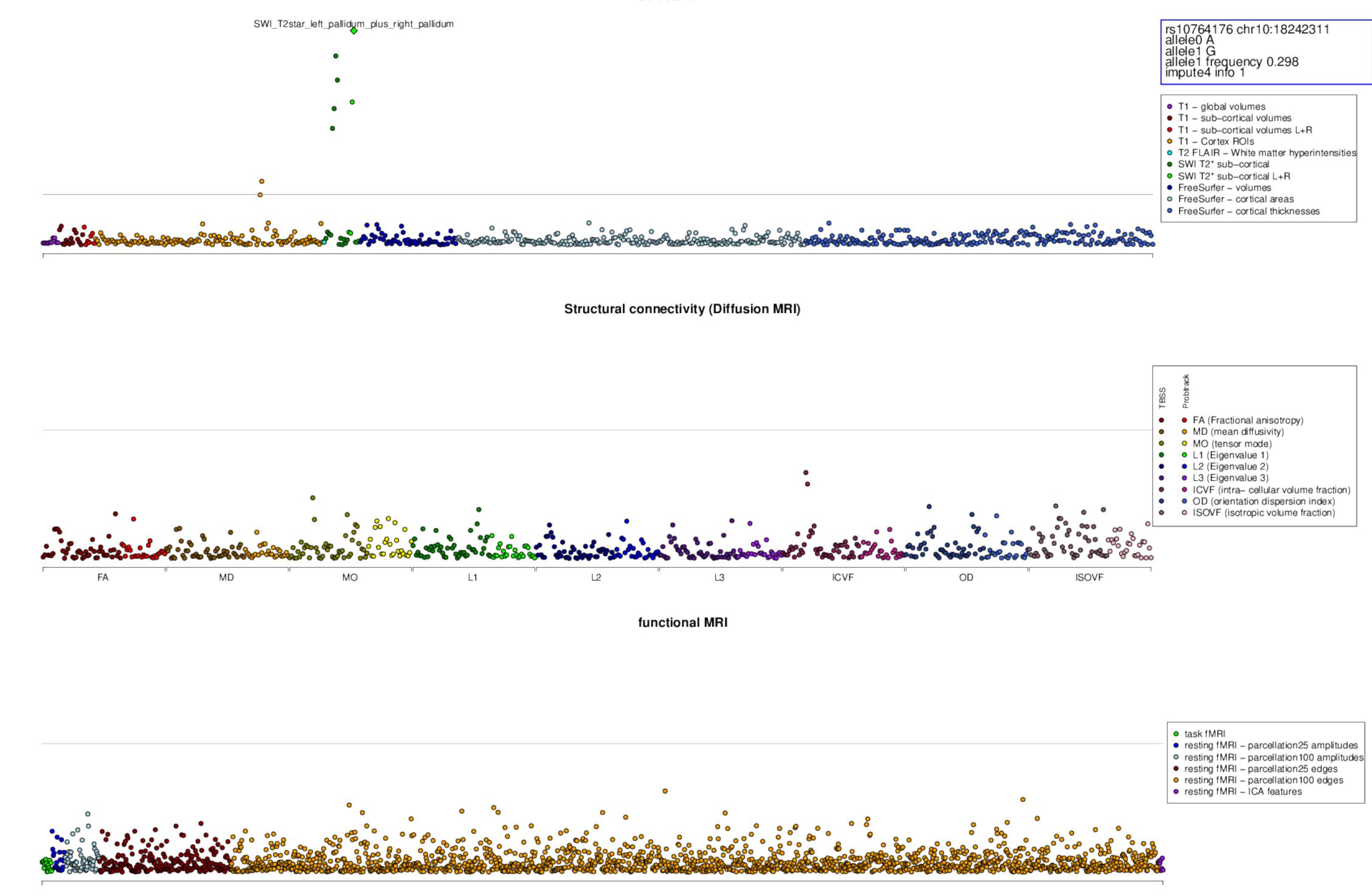


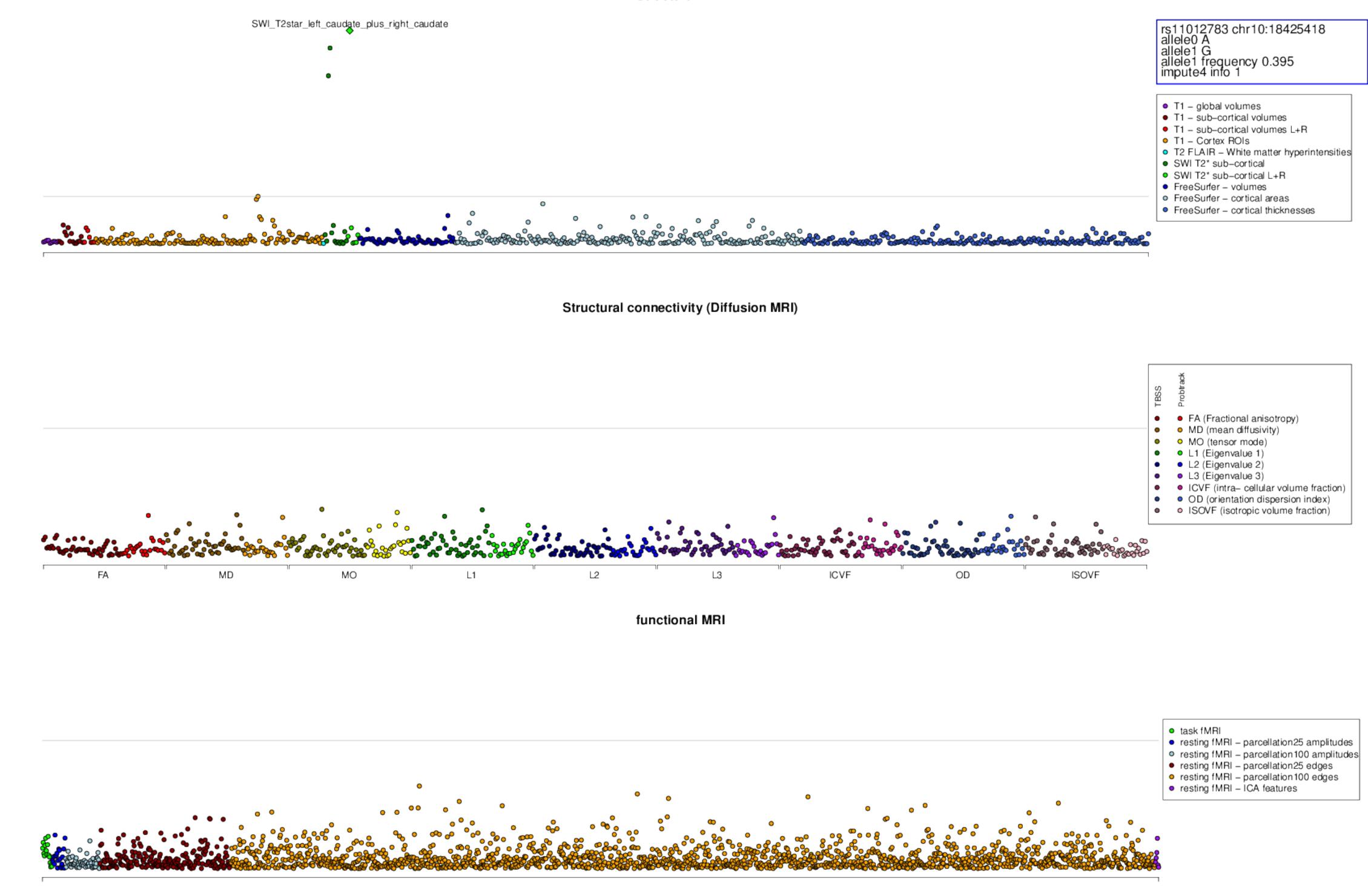


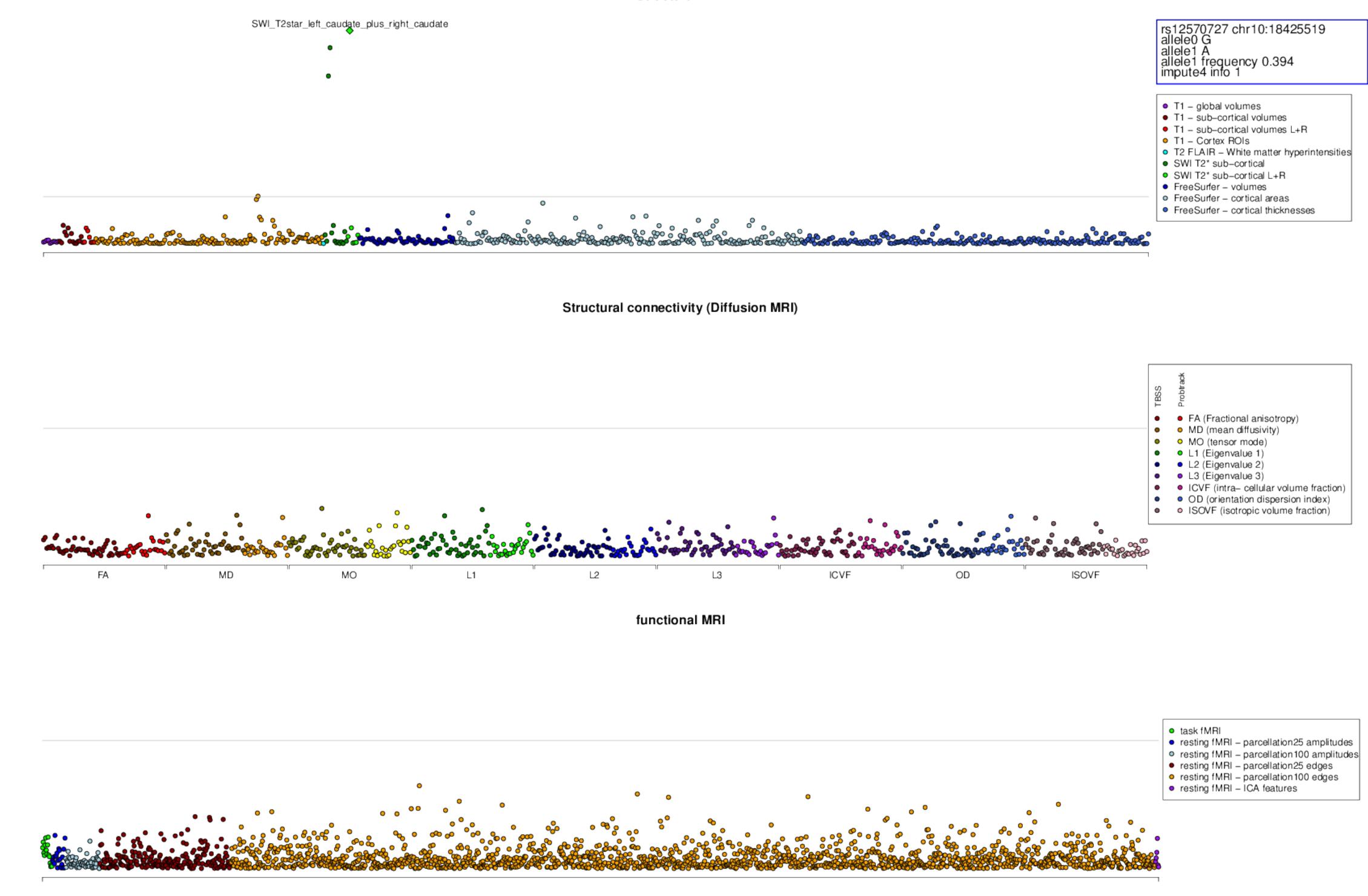


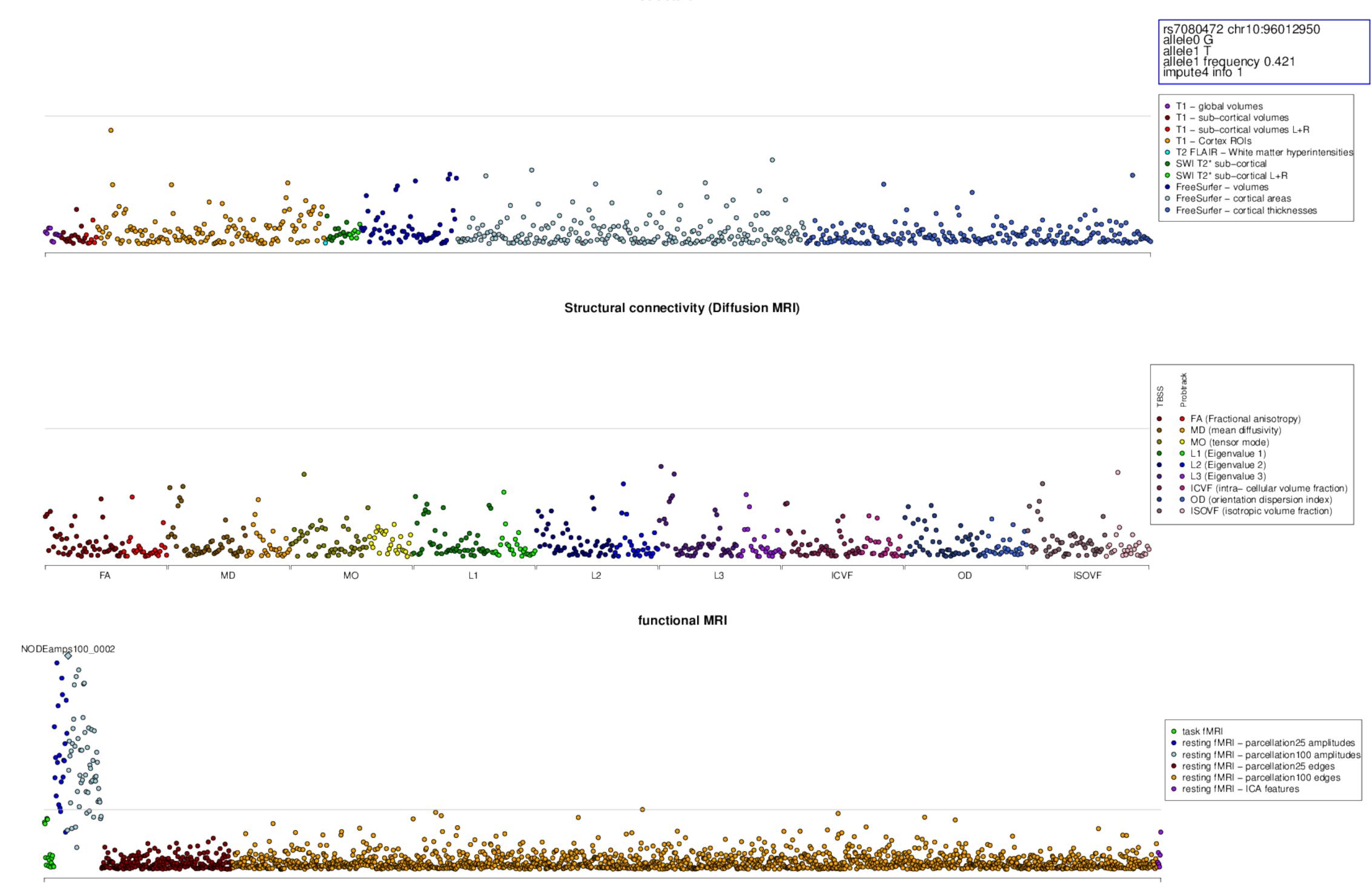


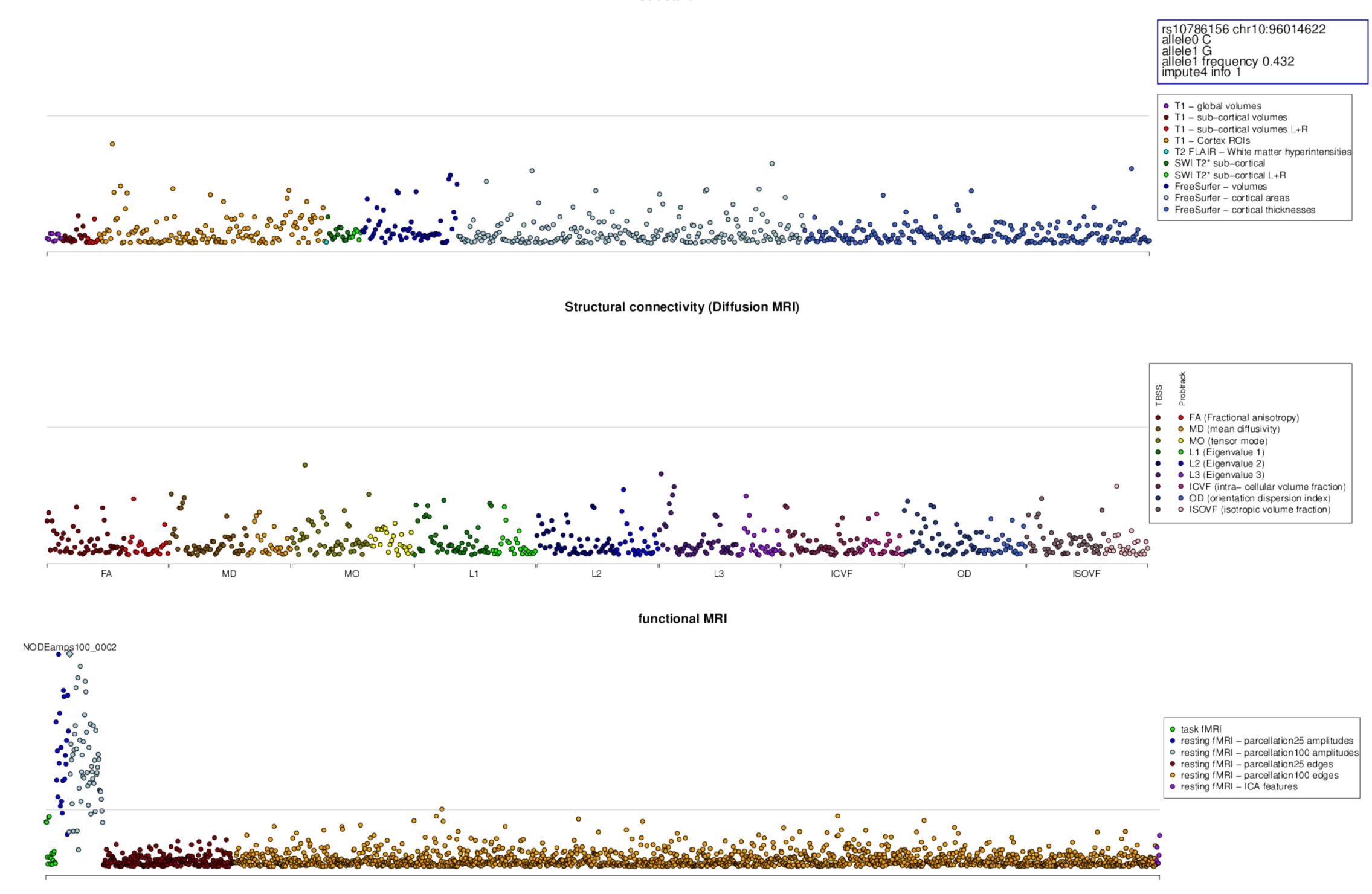


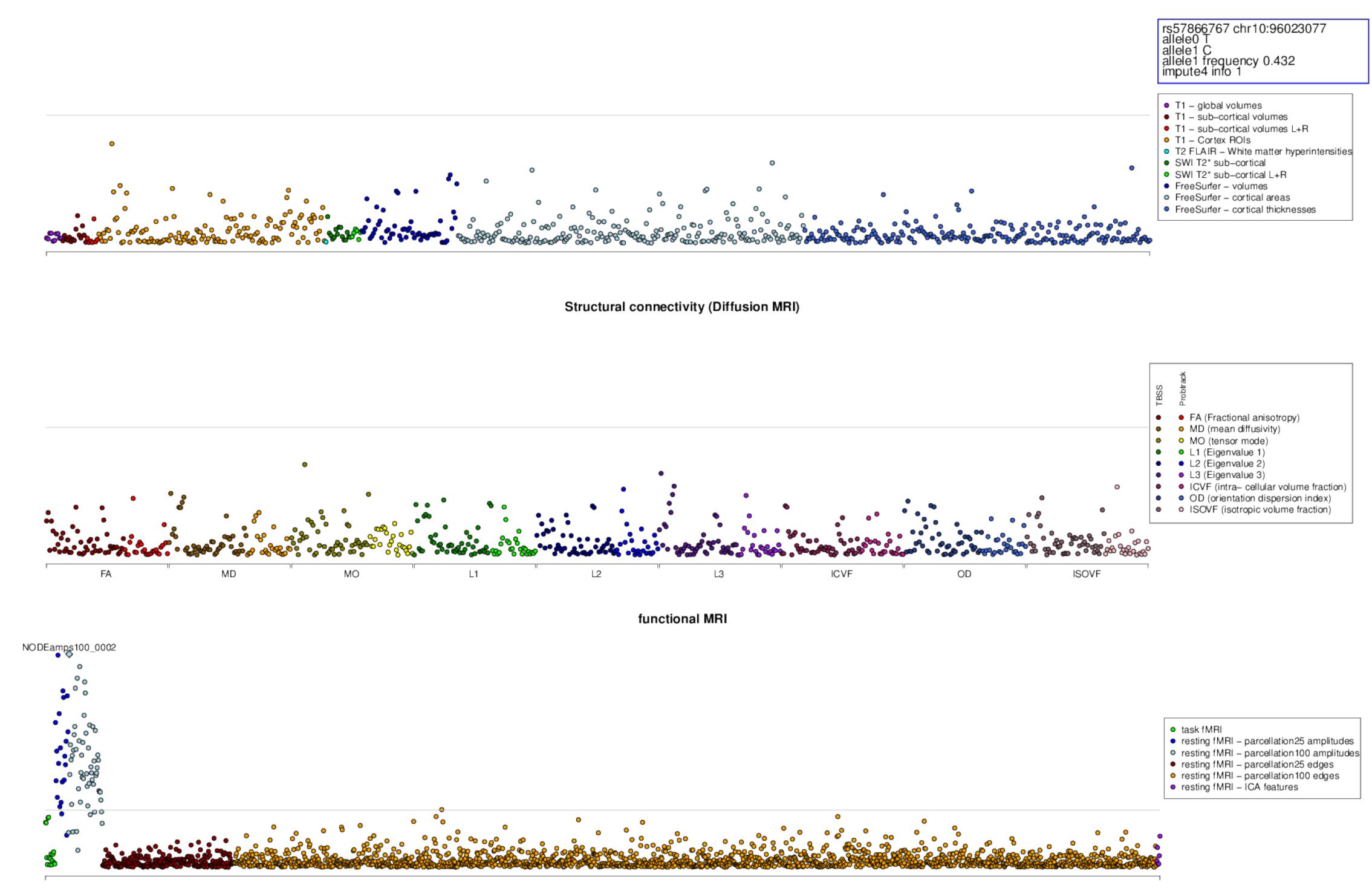


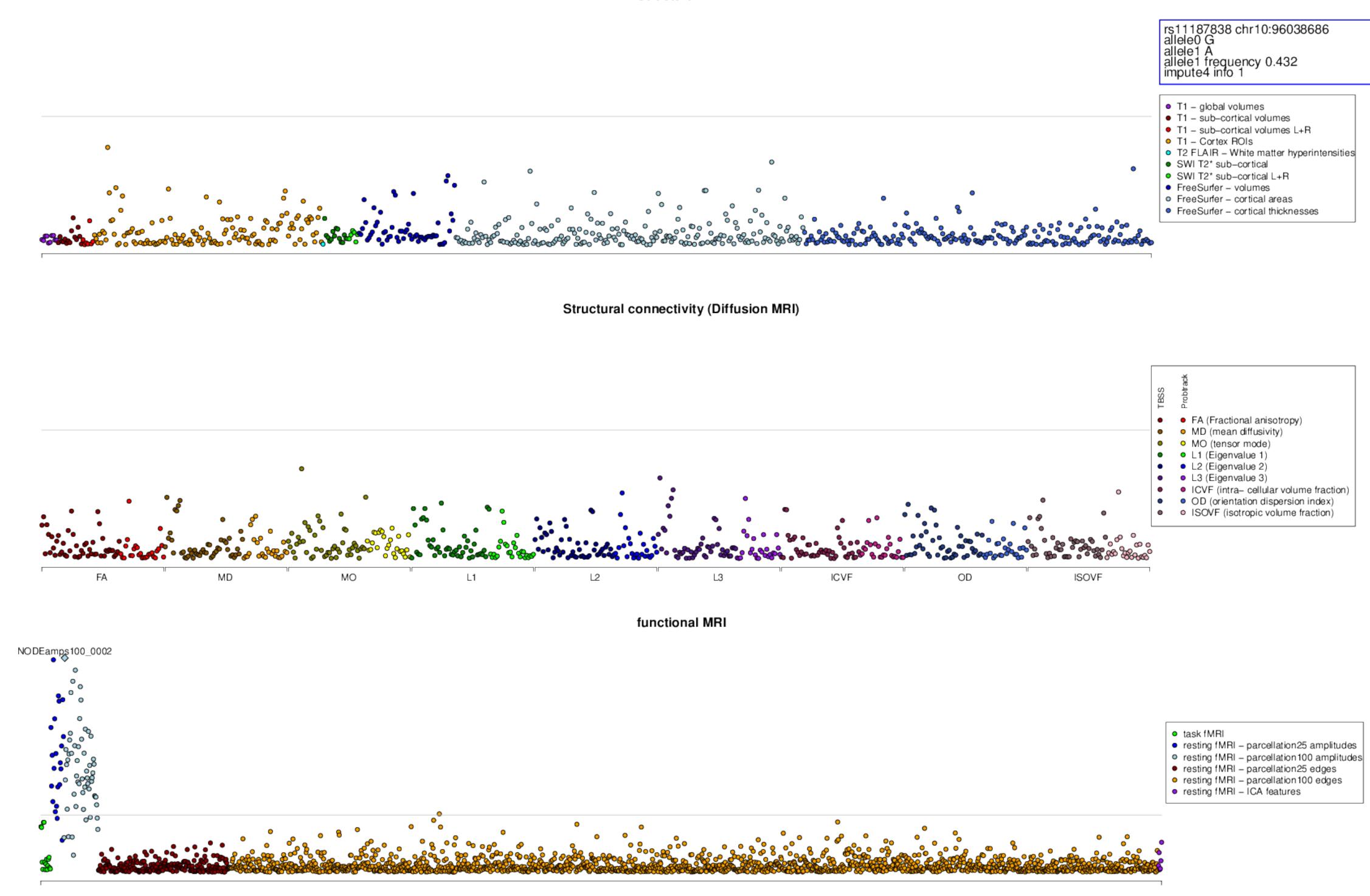


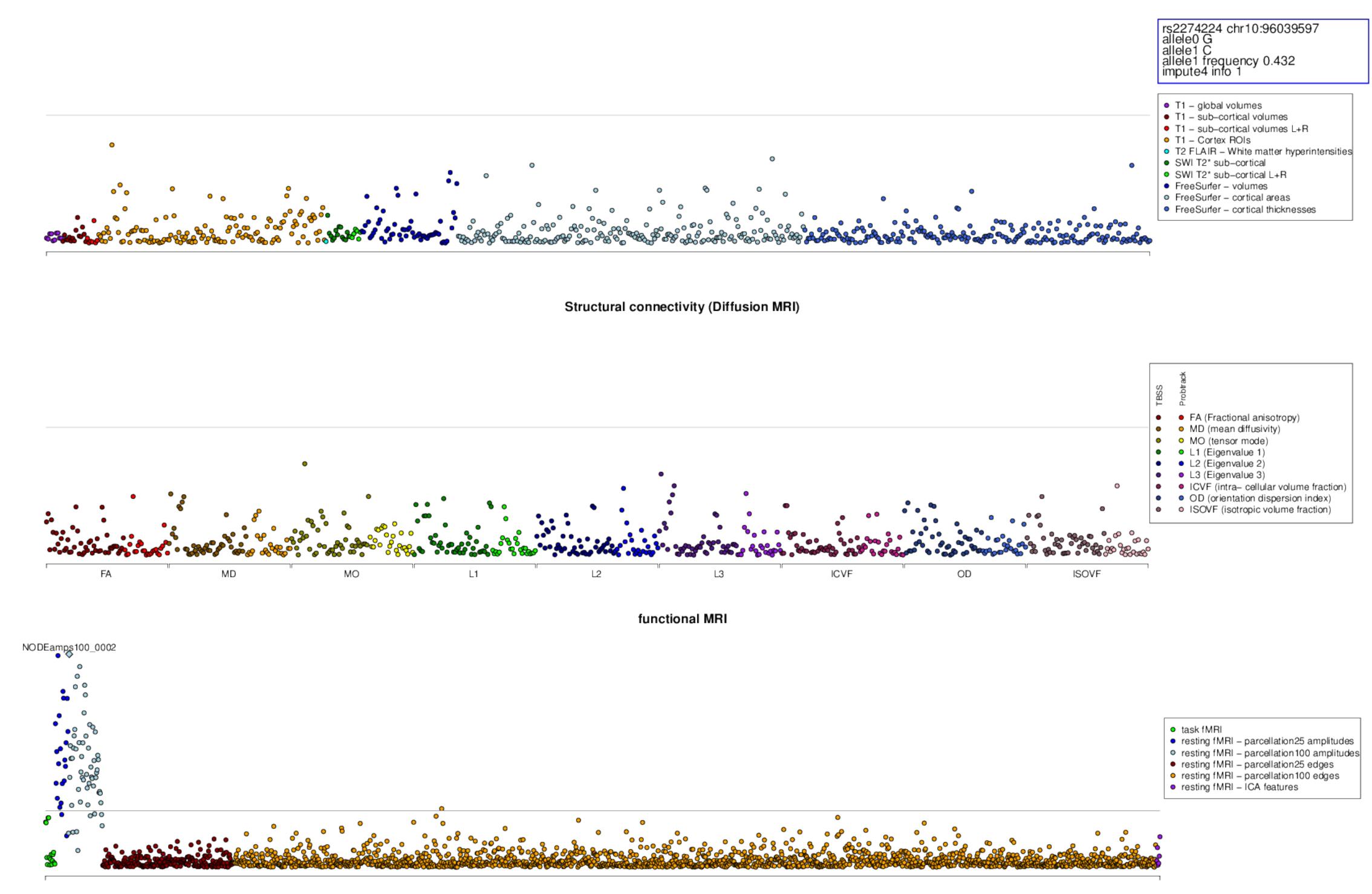


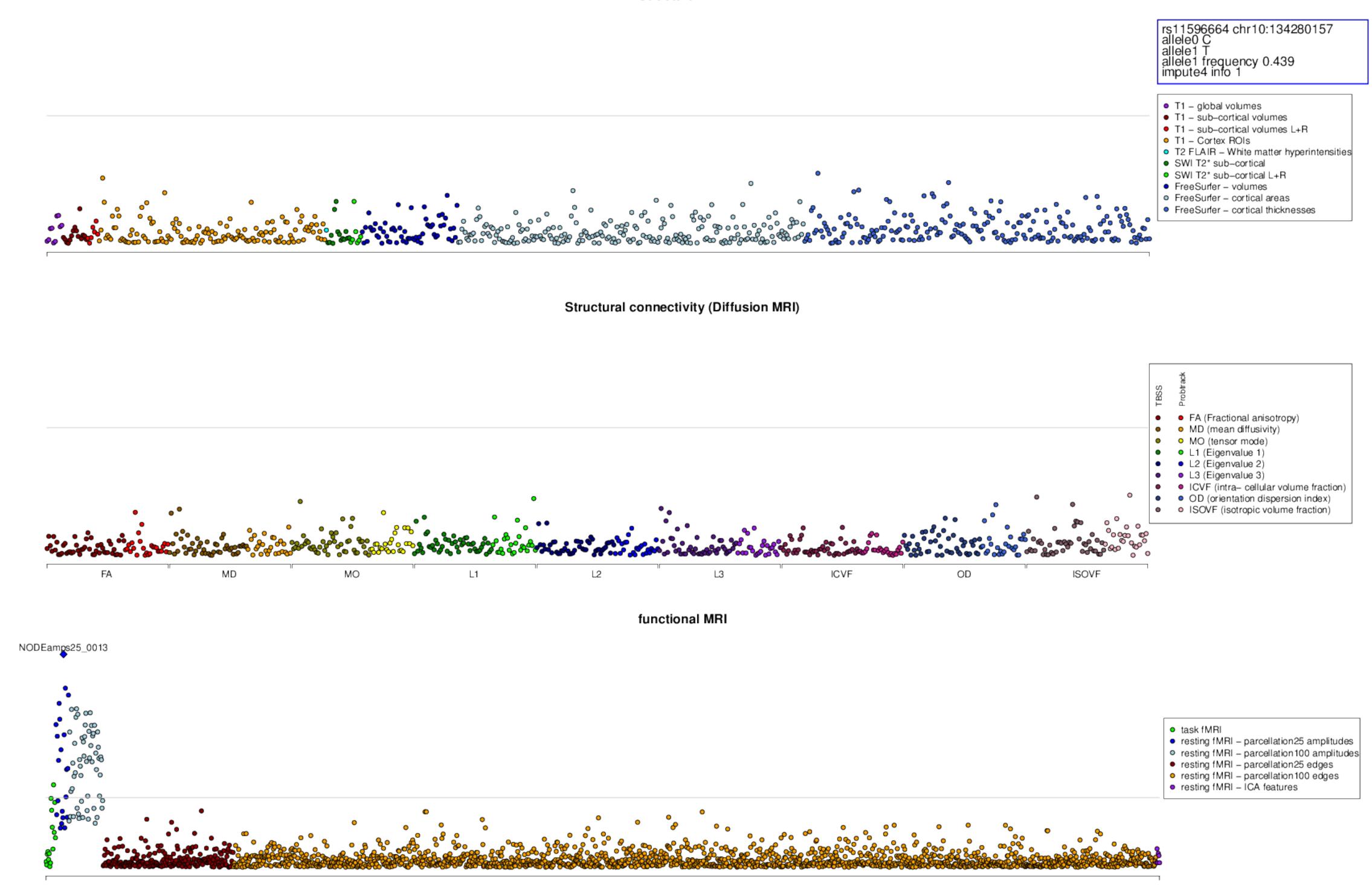


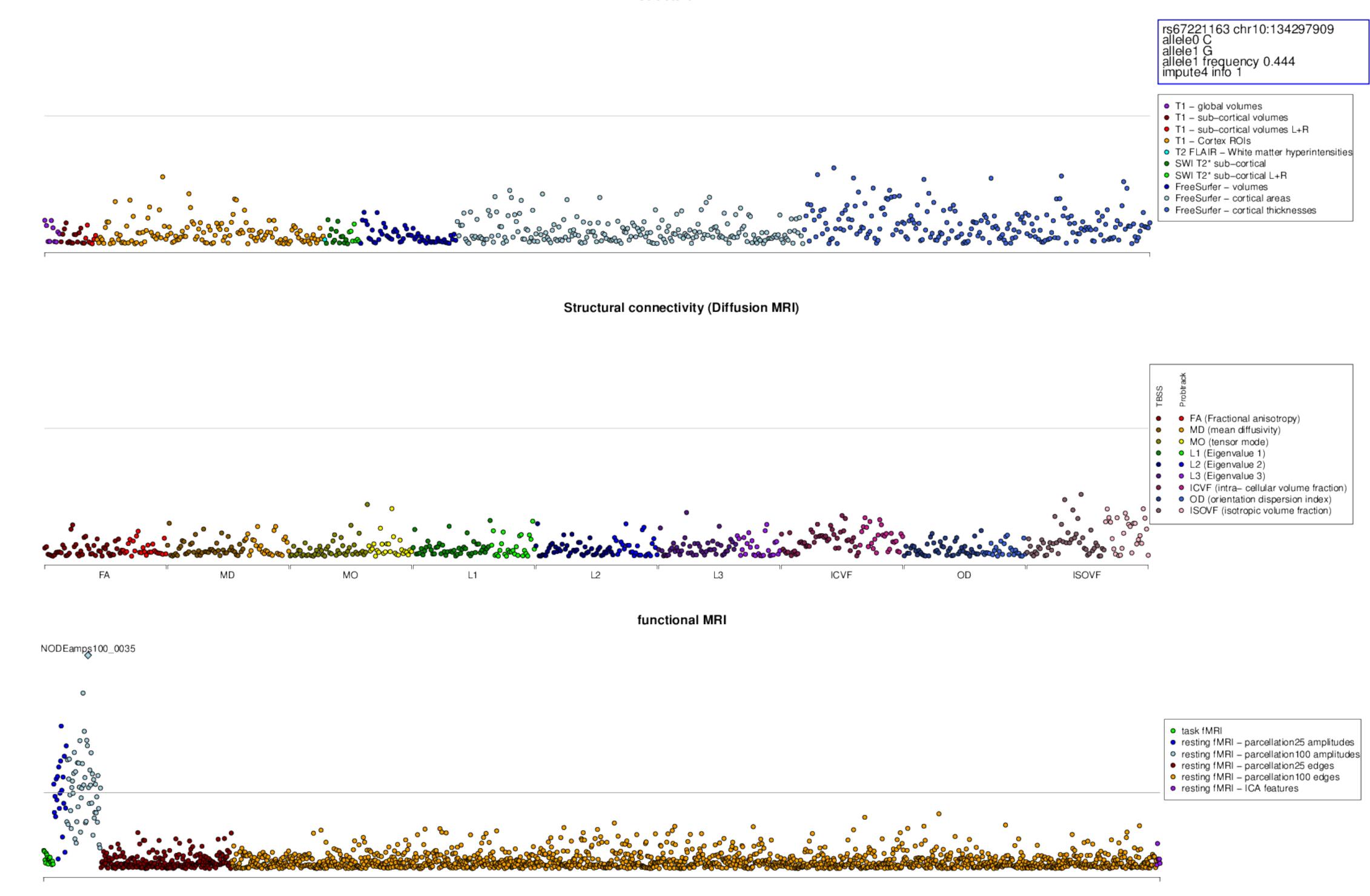


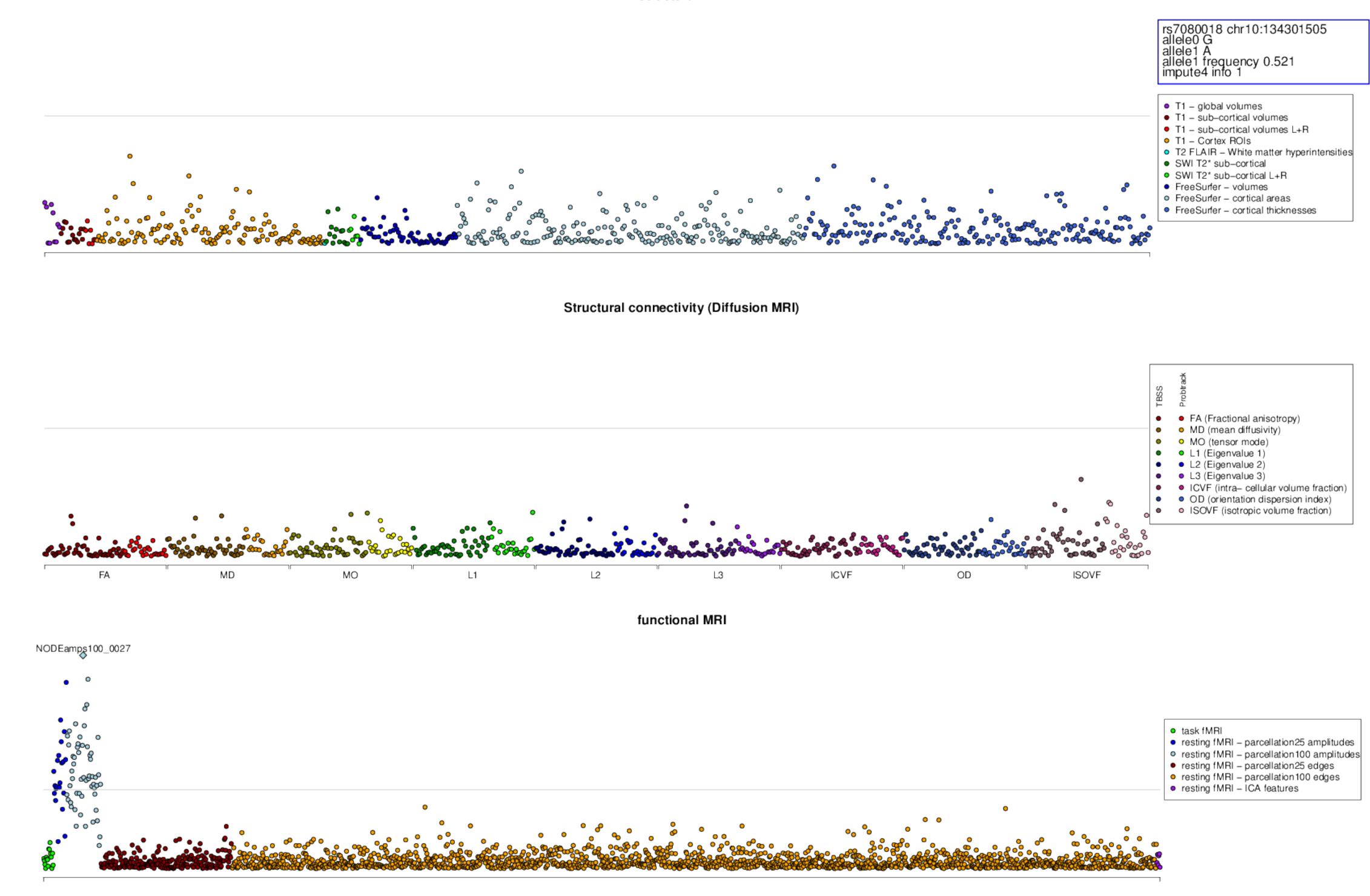


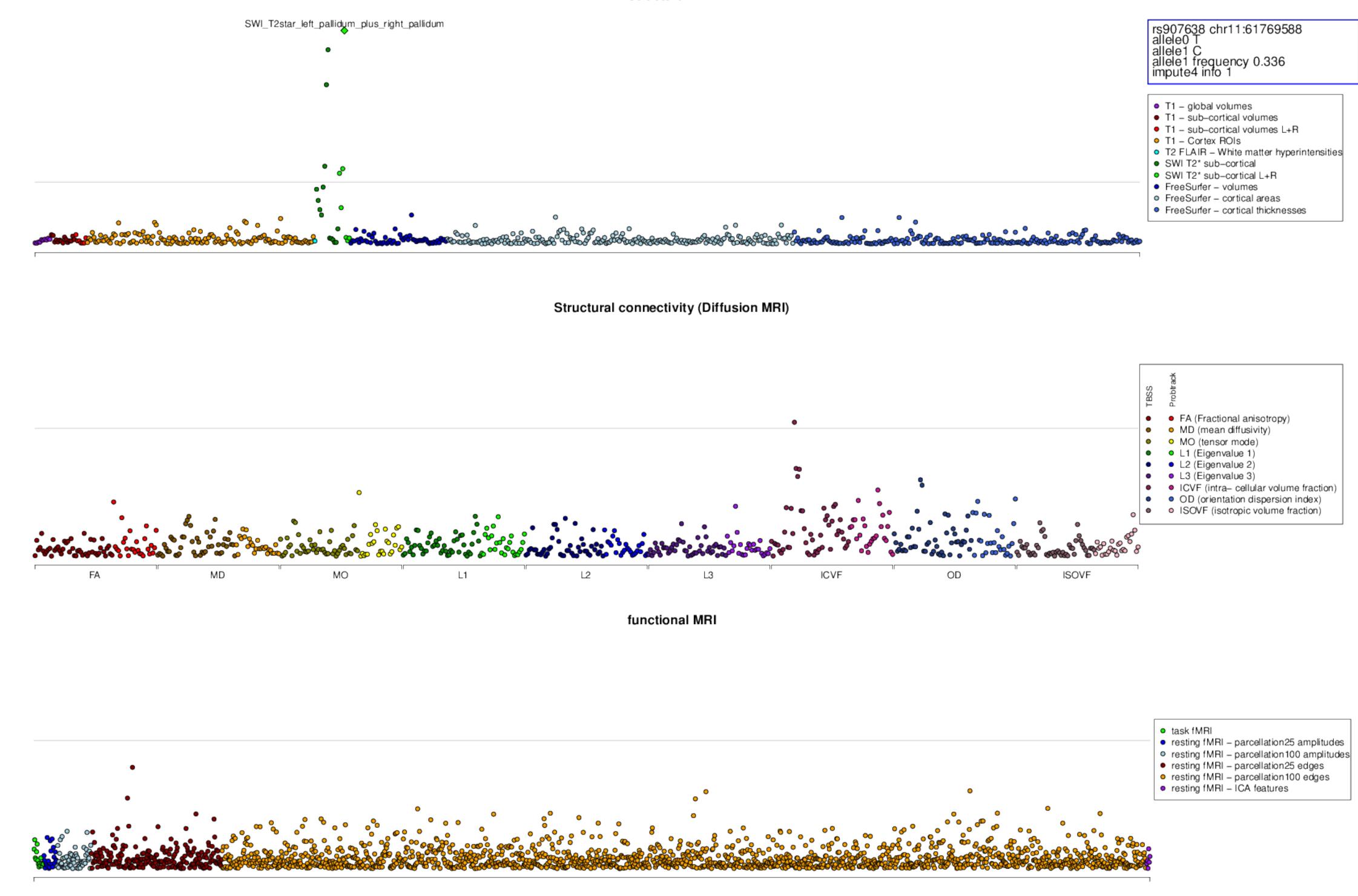


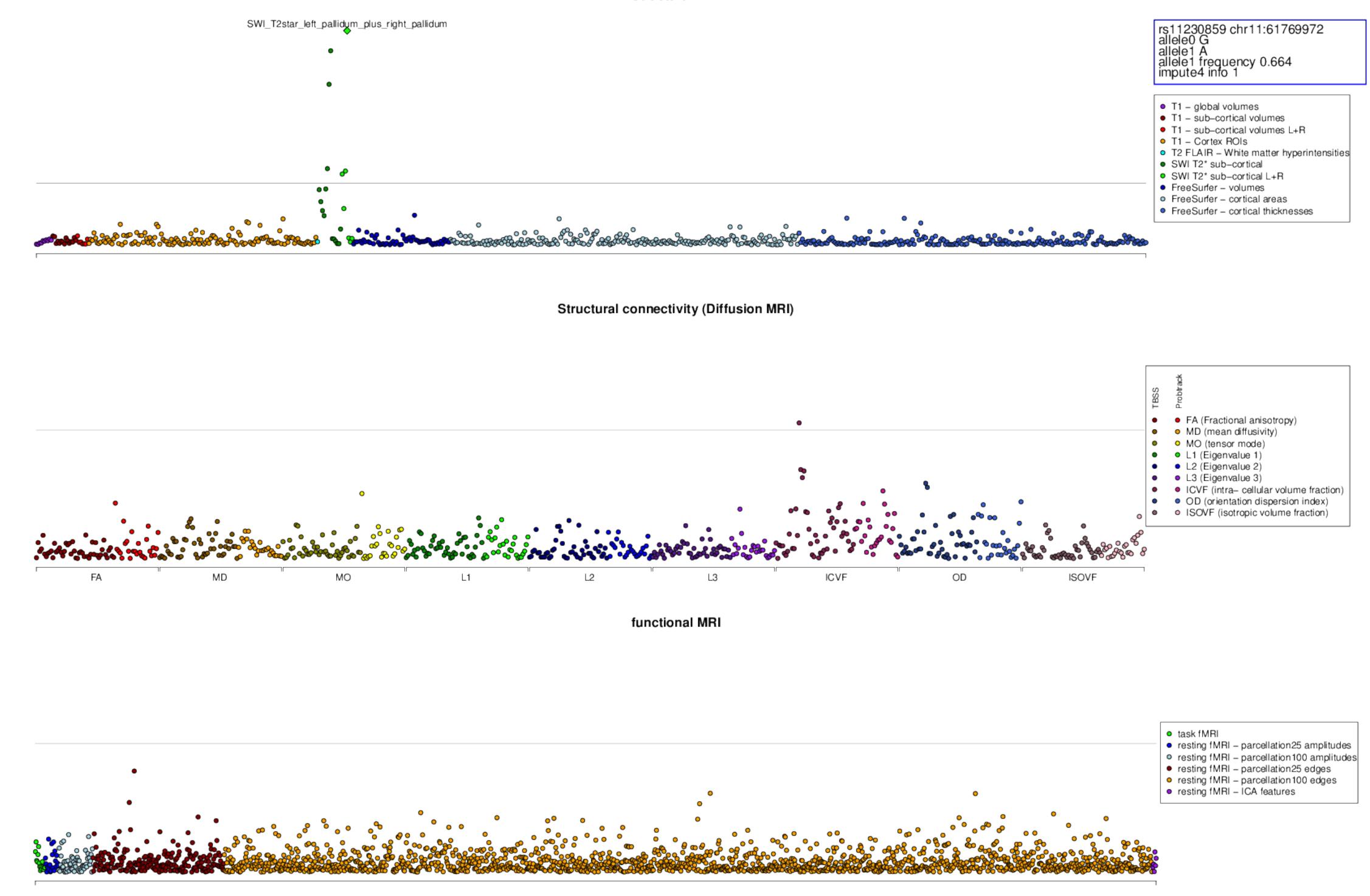


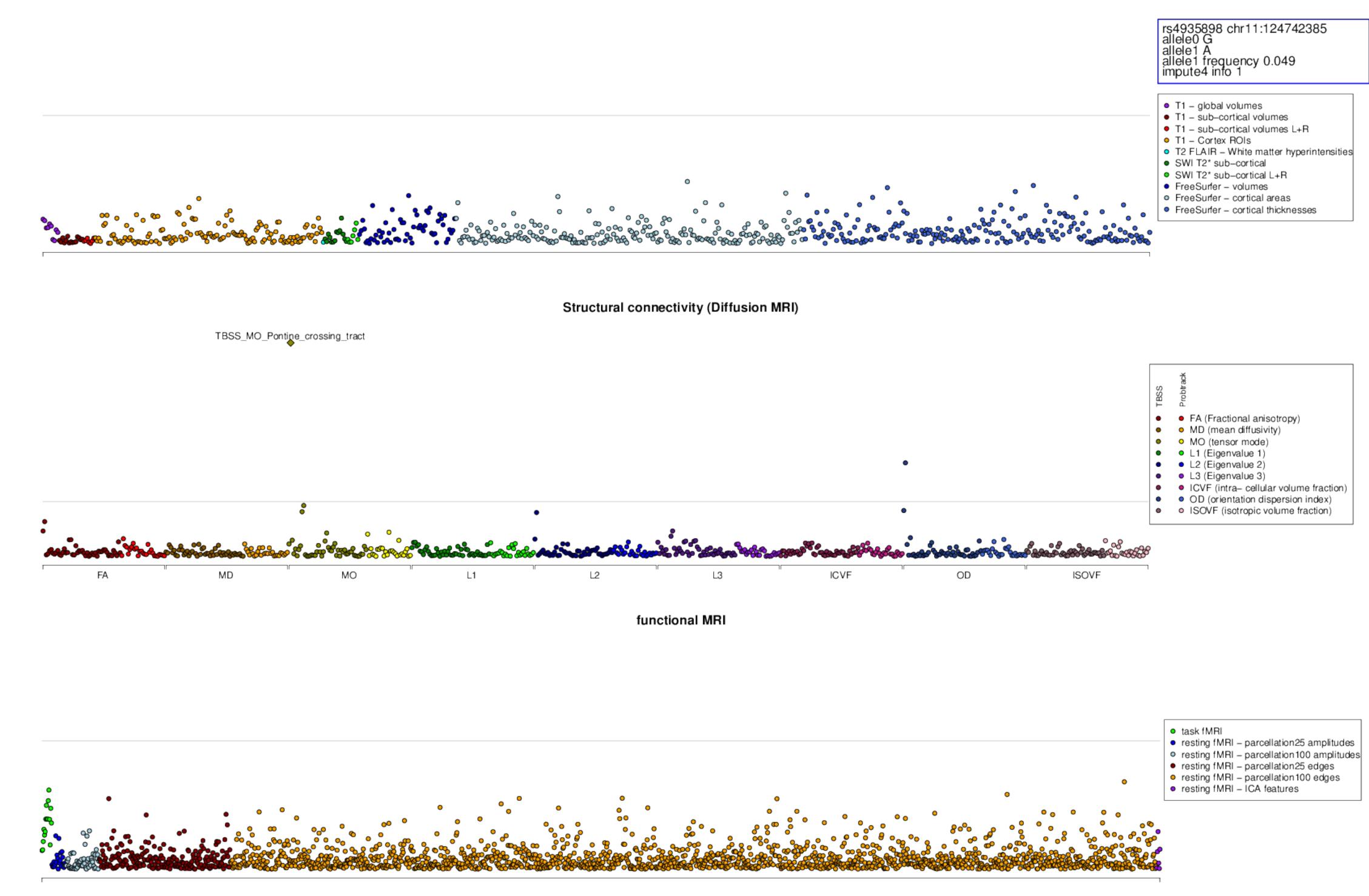


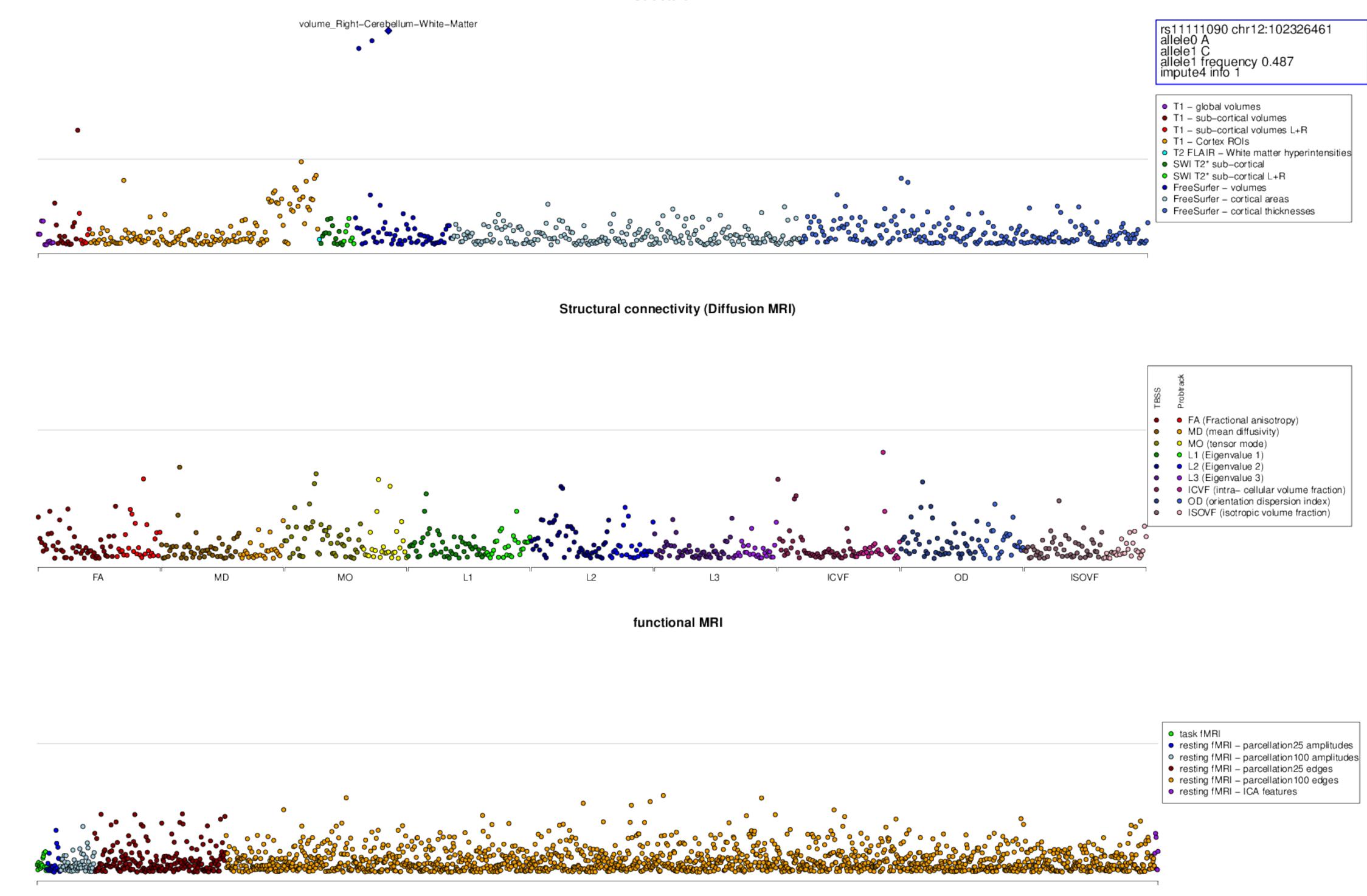


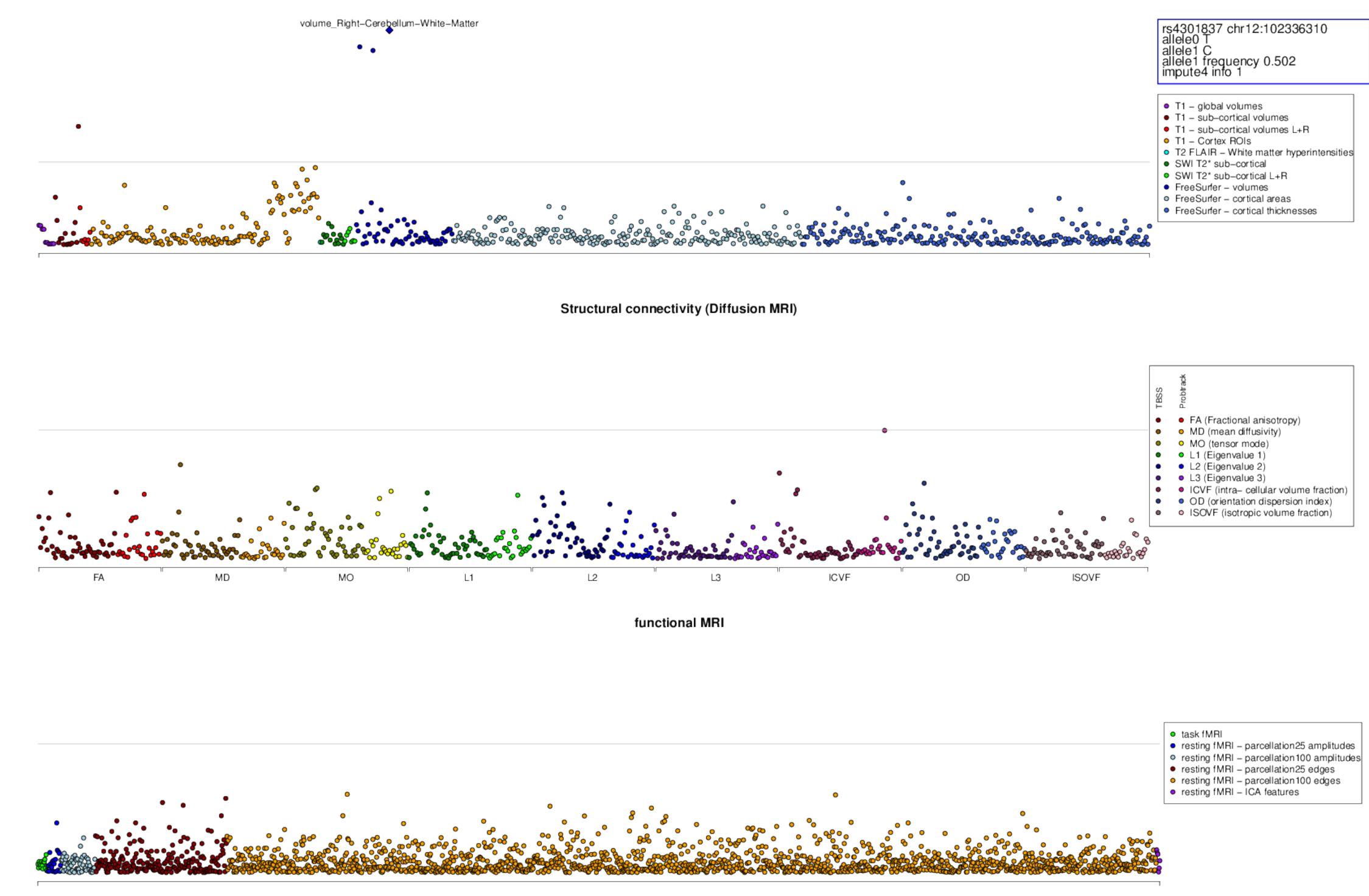


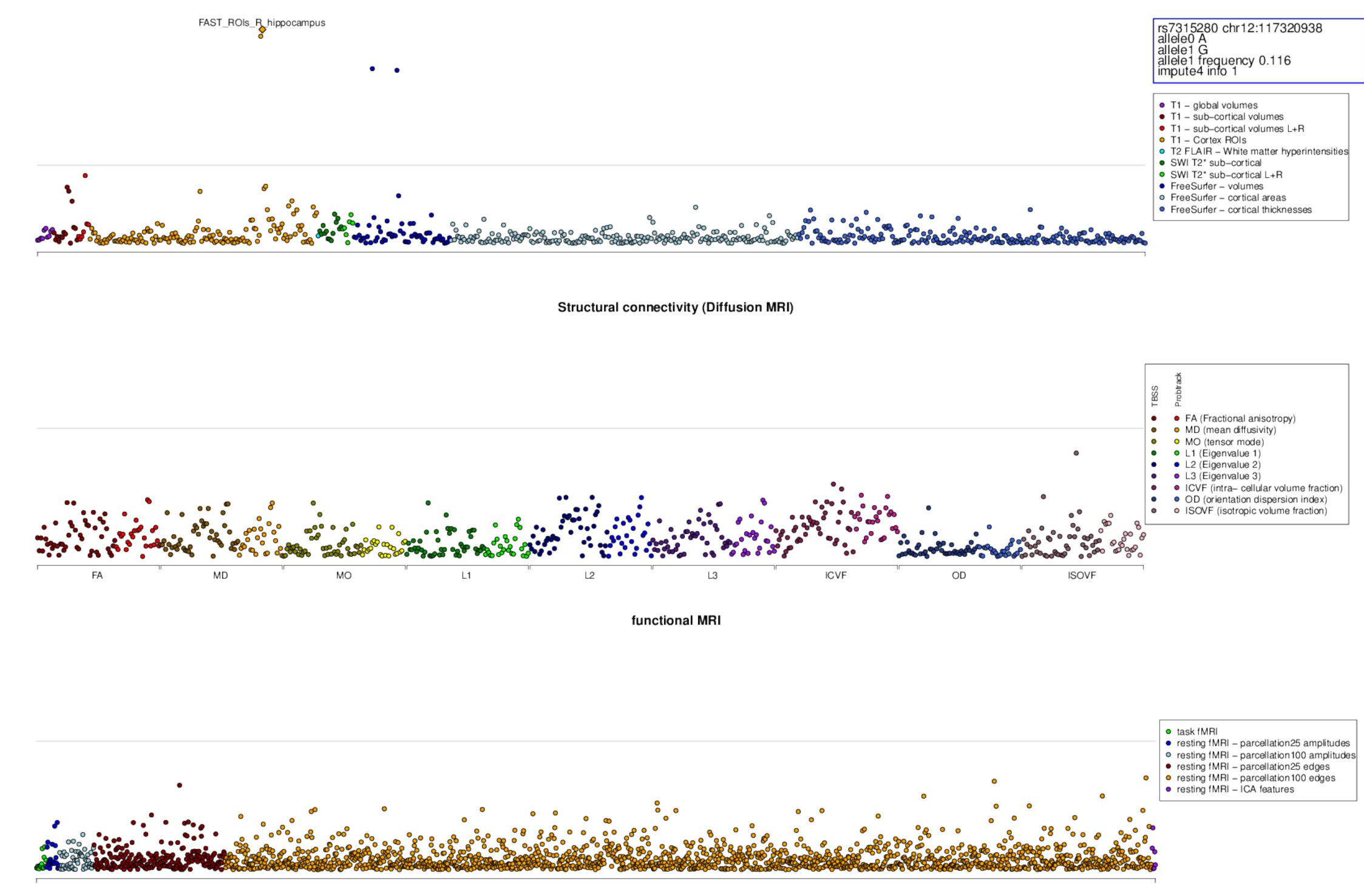


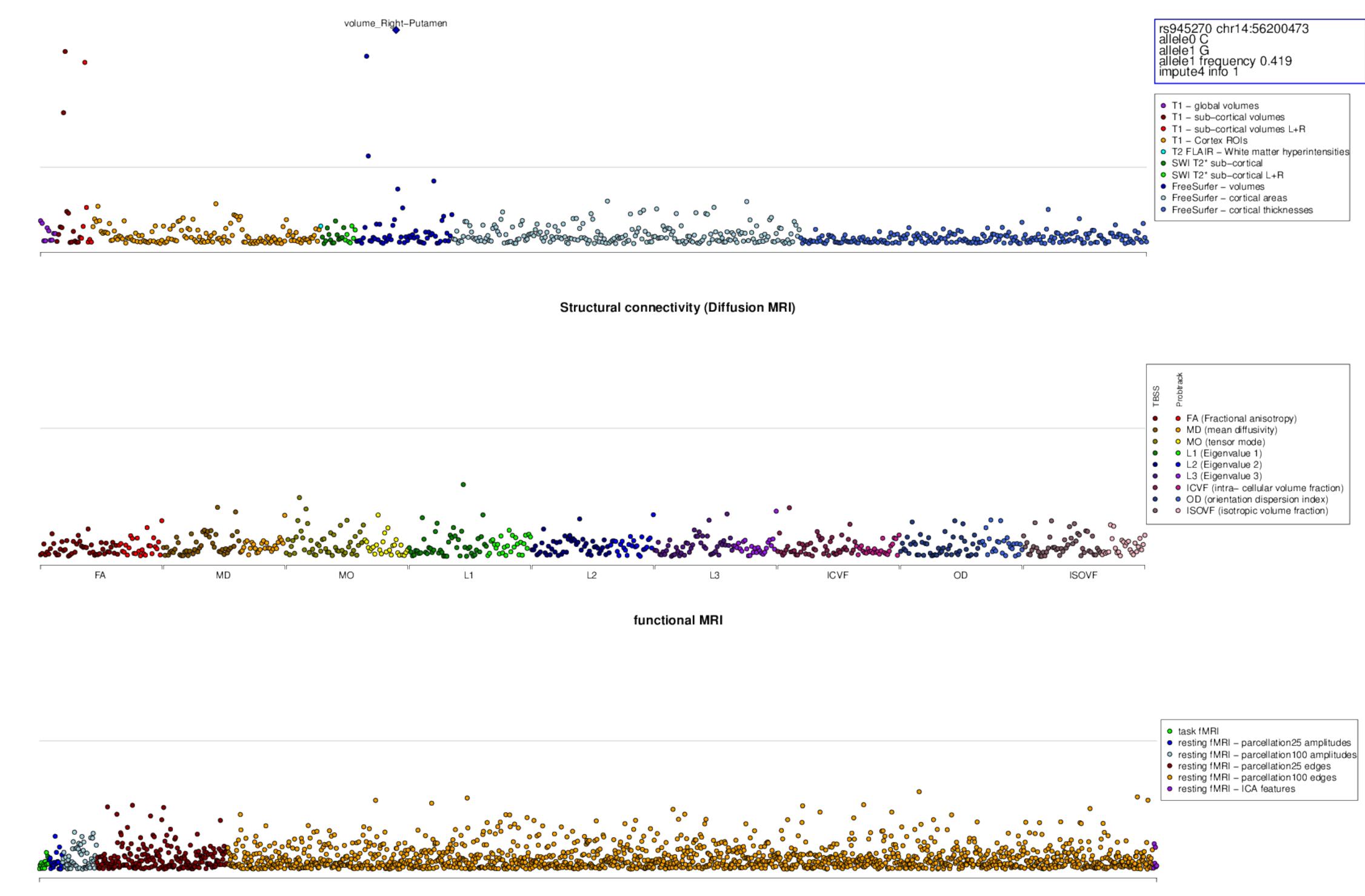


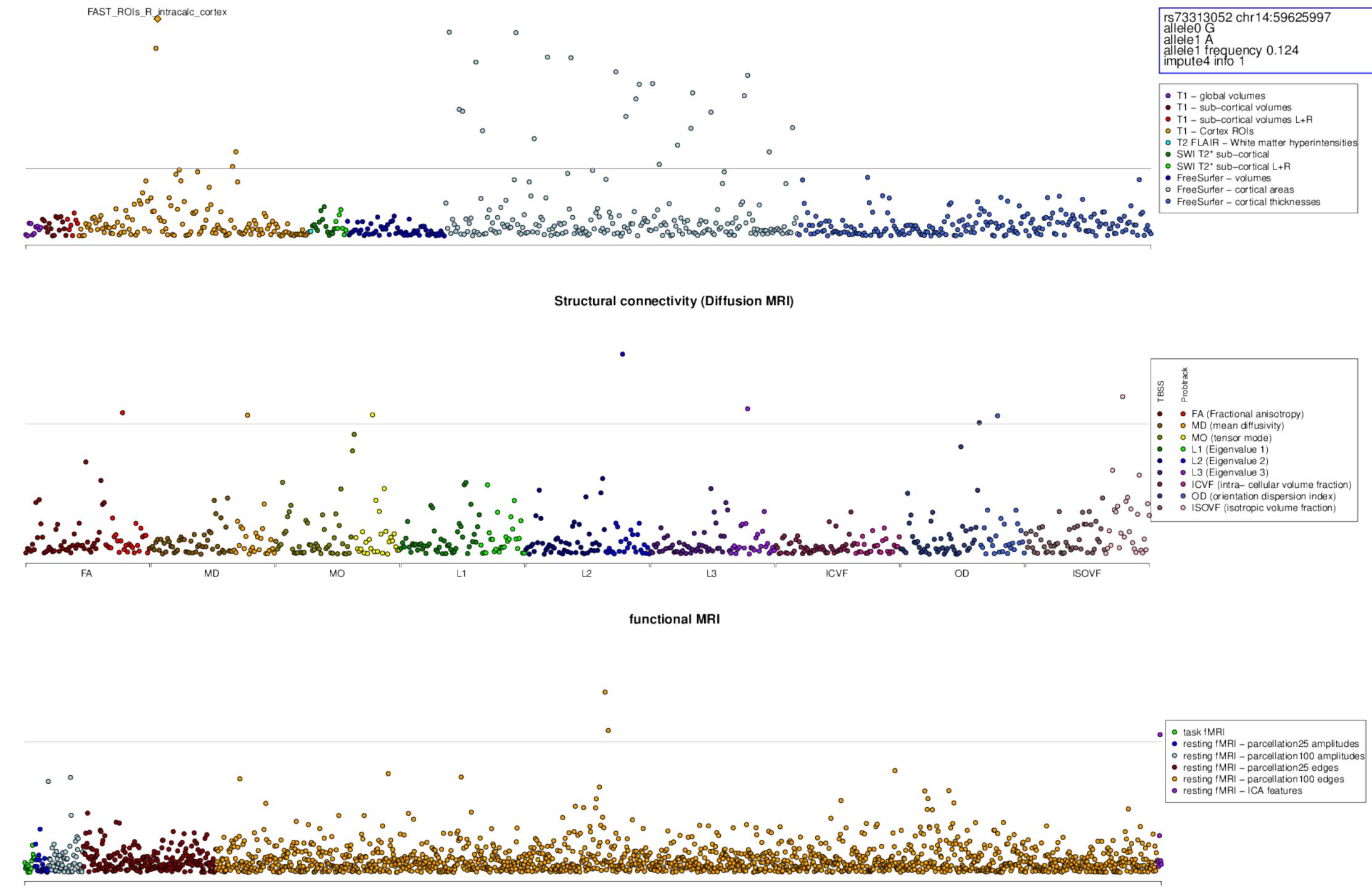




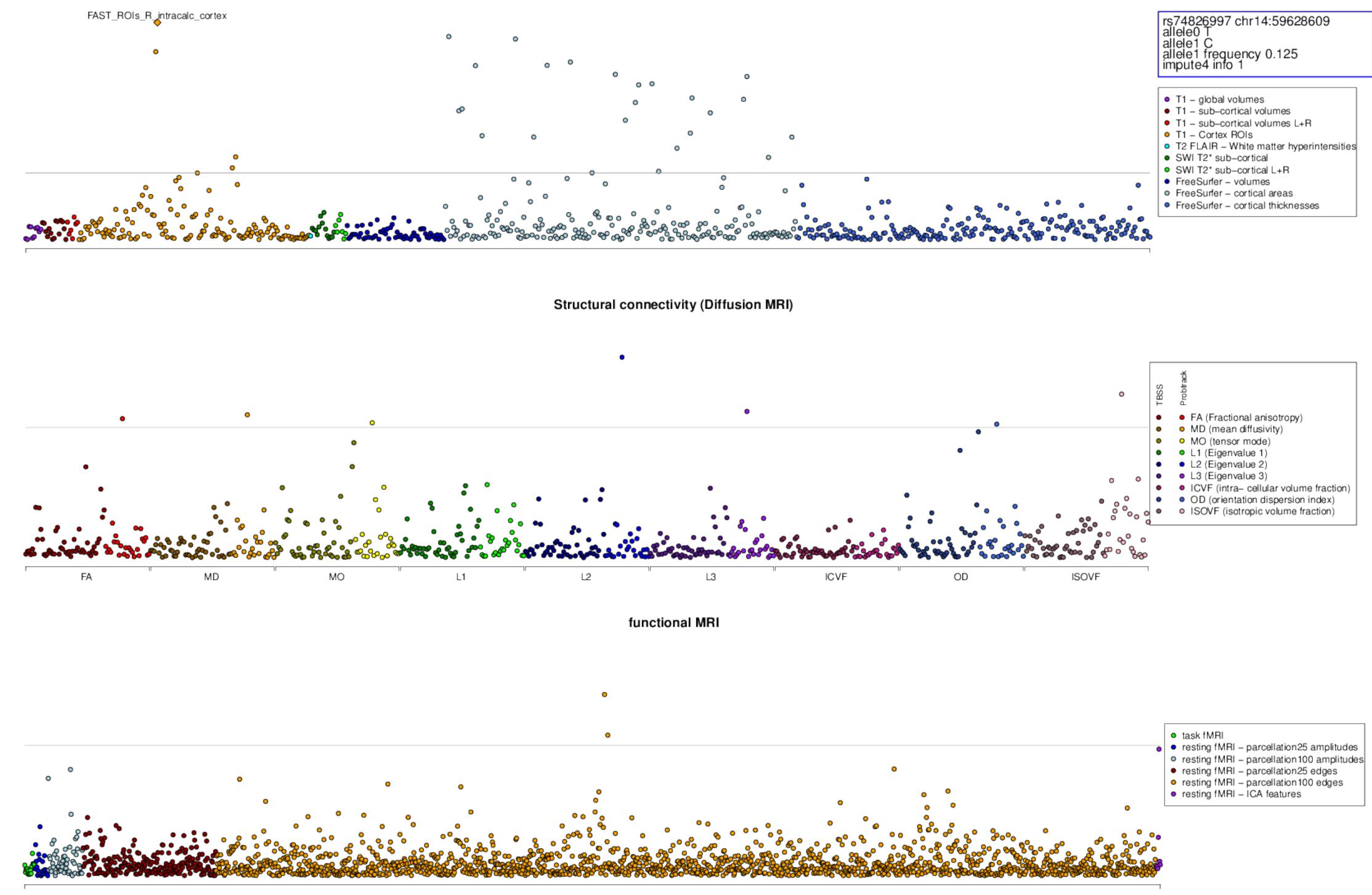


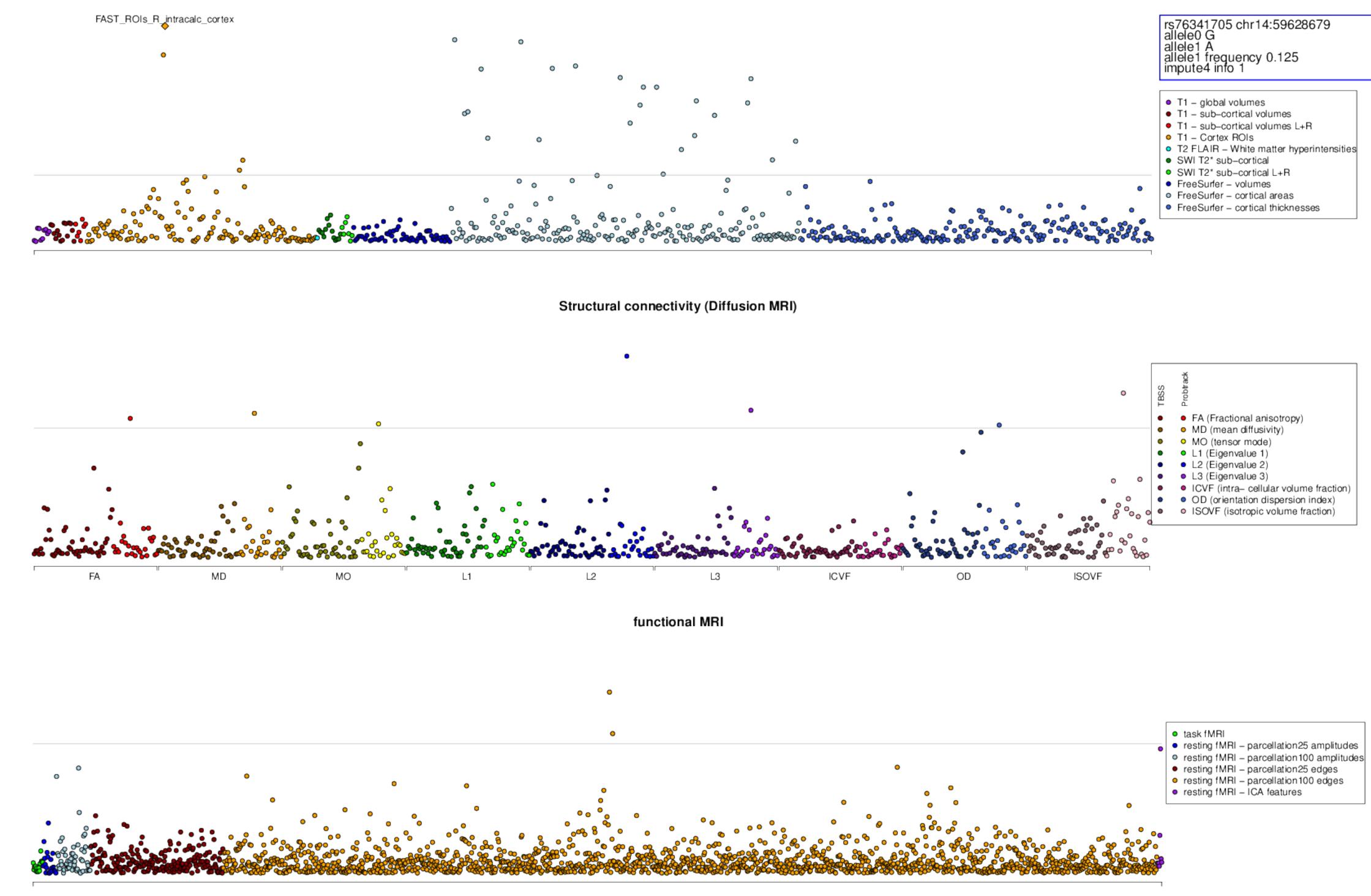




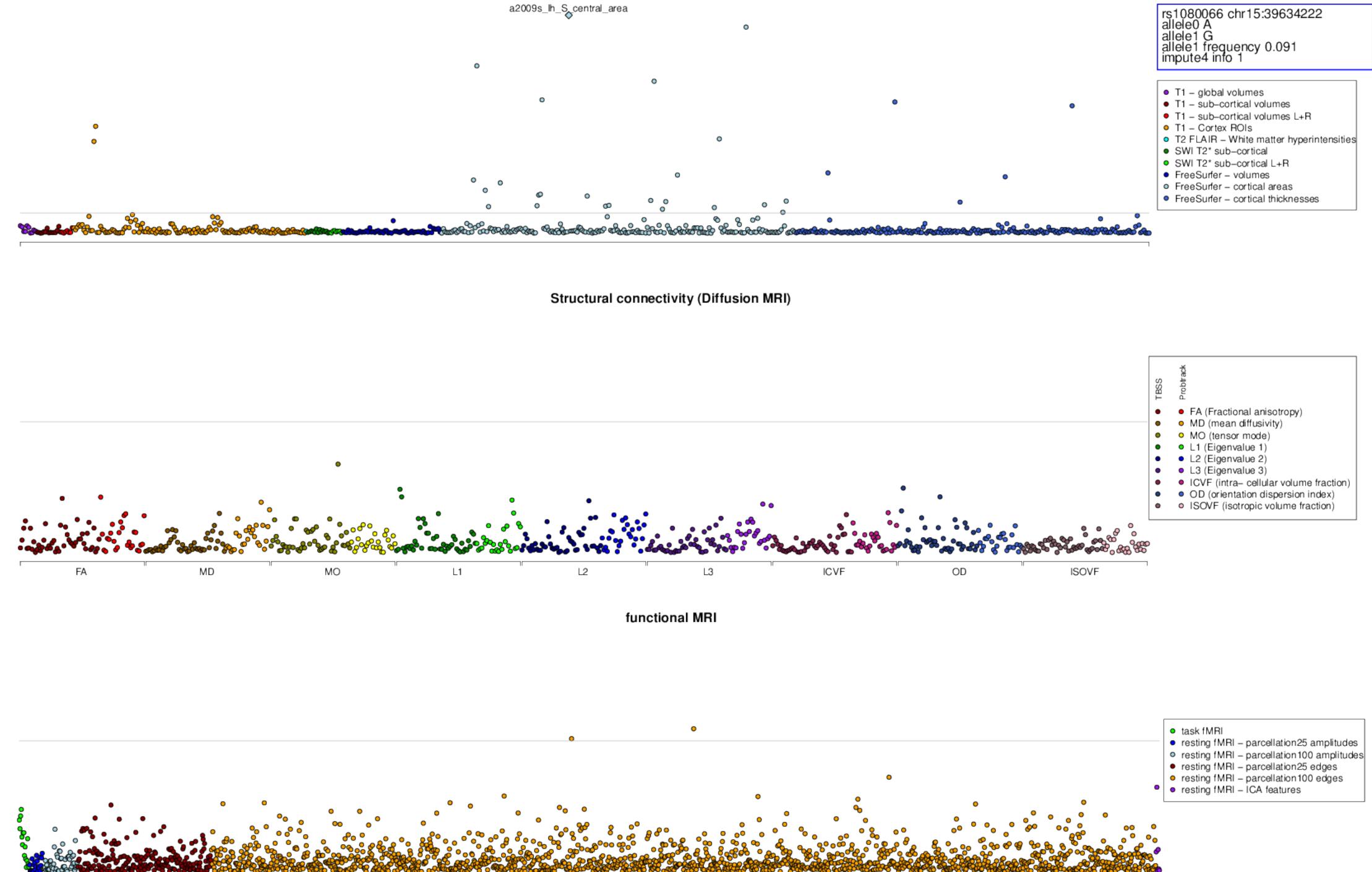


Structural MRI FAST_ROIs_R_intracalc_cortex rs2164950 chr14:59627631 allele0 G allele1 A allele1 frequency 0.125 impute4 info 1 T1 – global volumes T1 – sub–cortical volumes T1 – sub–cortical volumes L+R T1 – Cortex ROIs T2 FLAIR – White matter hyperintensities SWI T2* sub-cortical SWI T2* sub-cortical L+R FreeSurfer – volumes FreeSurfer – cortical areas • FreeSurfer - cortical thicknesses Structural connectivity (Diffusion MRI) FA (Fractional anisotropy)MD (mean diffusivity) MO (tensor mode) L1 (Èigenvalue 1) • L2 (Eigenvalue 2) L3 (Eigenvalue 3) ICVF (intra- cellular volume fraction) OD (orientation dispersion index) ISOVF (isotropic volume fraction) МО **ICVF** OD FΑ MD L1 L2 L3 ISOVF functional MRI task fMRI resting fMRI – parcellation25 amplitudes resting fMRI – parcellation 100 amplitudes resting fMRI – parcellation 25 edges resting fMRI – parcellation100 edges resting fMRI – ICA features





Structural MRI a2009s_lh_S_central_area rs2033939 chr15:39633904 allele0 G allele1 A allele1 frequency 0.081 impute4 info 1 T1 – global volumes T1 – sub–cortical volumes T1 – sub–cortical volumes L+R T1 – Cortex ROIs T2 FLAIR – White matter hyperintensities SWI T2* sub-cortical SWI T2* sub-cortical L+R FreeSurfer – volumes FreeSurfer – cortical areas FreeSurfer – cortical thicknesses Structural connectivity (Diffusion MRI) FA (Fractional anisotropy) MD (mean diffusivity) MO (tensor mode) L1 (Eigenvalue 1) • L2 (Eigenvalue 2) L3 (Eigenvalue 3) ICVF (intra- cellular volume fraction) OD (orientation dispersion index) ISOVF (isotropic volume fraction) MD FΑ MO L1 L2 L3 **ICVF** OD ISOVF functional MRI task fMRI resting fMRI – parcellation25 amplitudes resting fMRI – parcellation100 amplitudes resting fMRI – parcellation25 edges resting fMRI – parcellation100 edges resting fMRI – ICA features



Structural MRI a2009s_lh_S_central_area rs1440802 chr15:39635124 allele0 T allele1 C allele1 frequency 0.092 impute4 info 1 T1 – global volumes T1 – sub–cortical volumes T1 – sub–cortical volumes L+R T1 – Cortex ROIs T2 FLAIR – White matter hyperintensities SWI T2* sub-cortical SWI T2* sub-cortical L+R FreeSurfer – volumes FreeSurfer – cortical areas FreeSurfer – cortical thicknesses Structural connectivity (Diffusion MRI) FA (Fractional anisotropy) MD (mean diffusivity) MO (tensor mode) L1 (Eigenvalue 1) • L2 (Eigenvalue 2) L3 (Eigenvalue 3) ICVF (intra- cellular volume fraction) OD (orientation dispersion index) ISOVF (isotropic volume fraction) MD МО FΑ L1 L2 L3 **ICVF** OD ISOVF functional MRI task fMRI resting fMRI – parcellation25 amplitudes resting fMRI – parcellation100 amplitudes resting fMRI – parcellation25 edges resting fMRI – parcellation100 edges resting fMRI – ICA features

Structural MRI a2009s_lh_S_central_area rs4924345 chr15:39639898 allele0 A allele1 C allele1 frequency 0.081 impute4 info 1 T1 – global volumes T1 – sub–cortical volumes T1 – sub–cortical volumes L+R T1 – Cortex ROIs T2 FLAIR – White matter hyperintensities SWI T2* sub-cortical SWI T2* sub-cortical L+R FreeSurfer – volumes FreeSurfer – cortical areas FreeSurfer – cortical thicknesses Structural connectivity (Diffusion MRI) FA (Fractional anisotropy) MD (mean diffusivity) MO (tensor mode) L1 (Eigenvalue 1) • L2 (Eigenvalue 2) L3 (Eigenvalue 3) ICVF (intra- cellular volume fraction) OD (orientation dispersion index) ISOVF (isotropic volume fraction) FΑ MD MO L1 L2 L3 **ICVF** OD ISOVF functional MRI task fMRI resting fMRI – parcellation25 amplitudes resting fMRI – parcellation100 amplitudes resting fMRI – parcellation25 edges resting fMRI – parcellation100 edges resting fMRI – ICA features

