Fly Brain Anatomical Orientation Analysis Report

Generated on: February 13, 2026

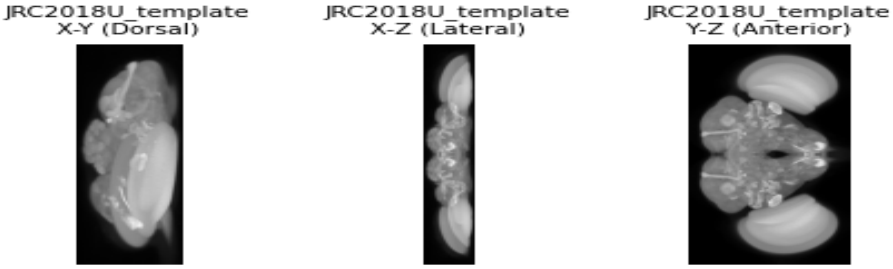
This report contains analysis of fly brain microscopy images, including template characteristics, sample orientation detection, and correction results.

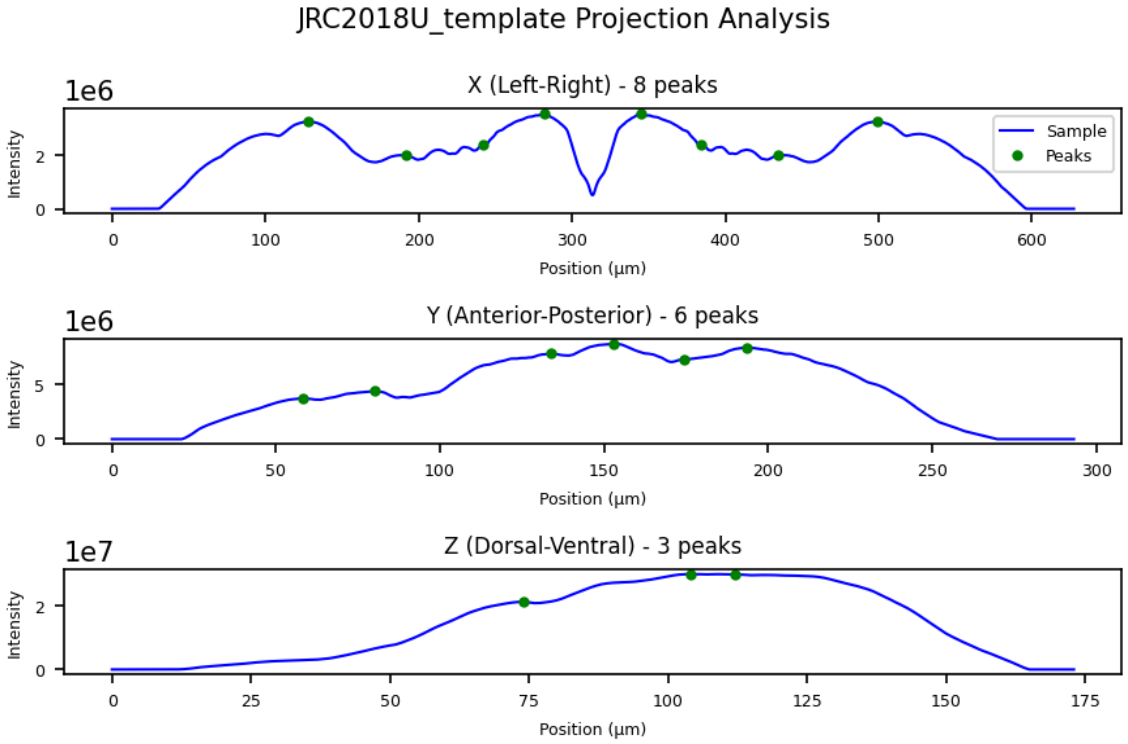
Template Analysis Results

Template: JRC2018U_template

Physical Dimensions: 627.9 × 293.7 × 174.0 µm
Voxel Resolution: 0.519 × 0.519 × 1.000 µm
Data Range: 0-255

Maximum Intensity Projections:

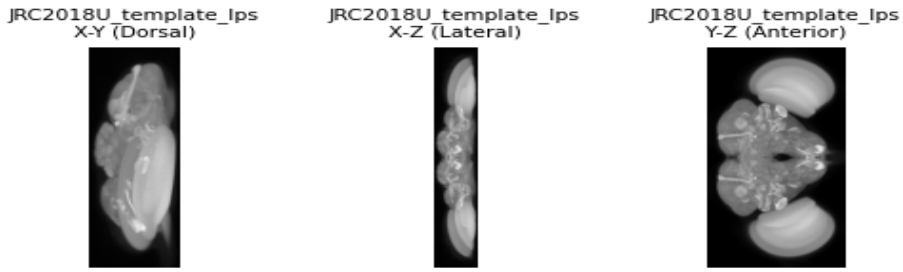


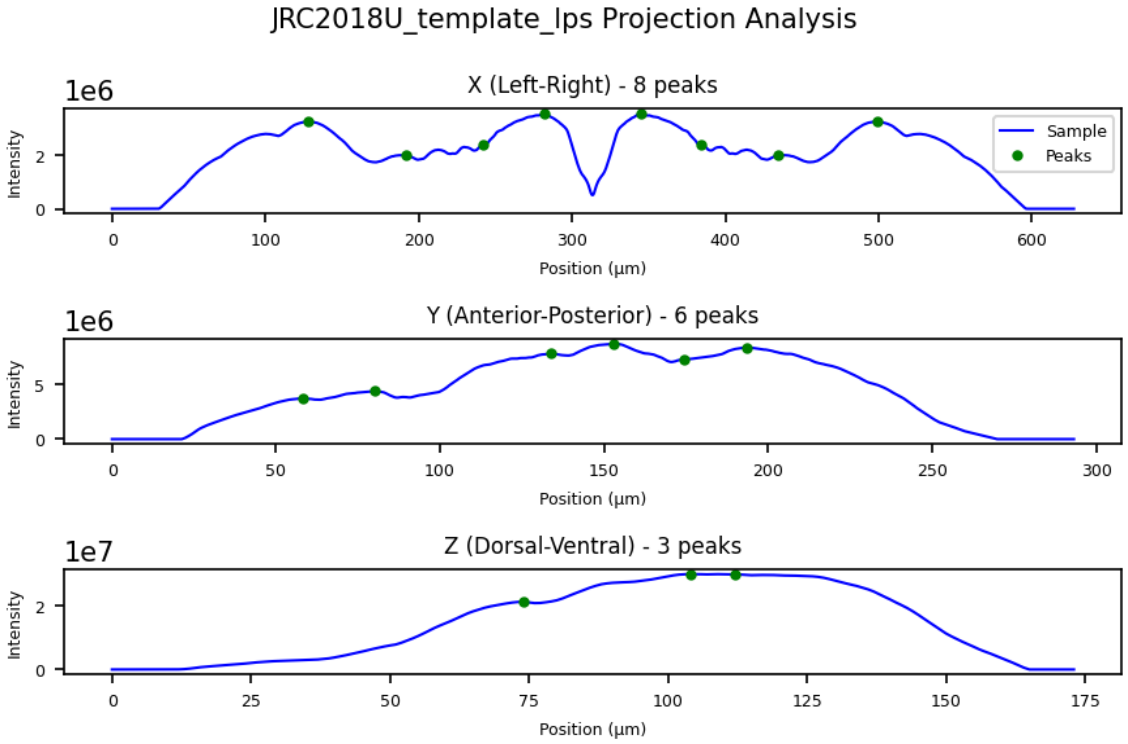


Template: JRC2018U_template_lps

Physical Dimensions: 627.9 × 293.7 × 174.0 µm
Voxel Resolution: 0.519 × 0.519 × 1.000 µm
Data Range: 0-255

Maximum Intensity Projections:

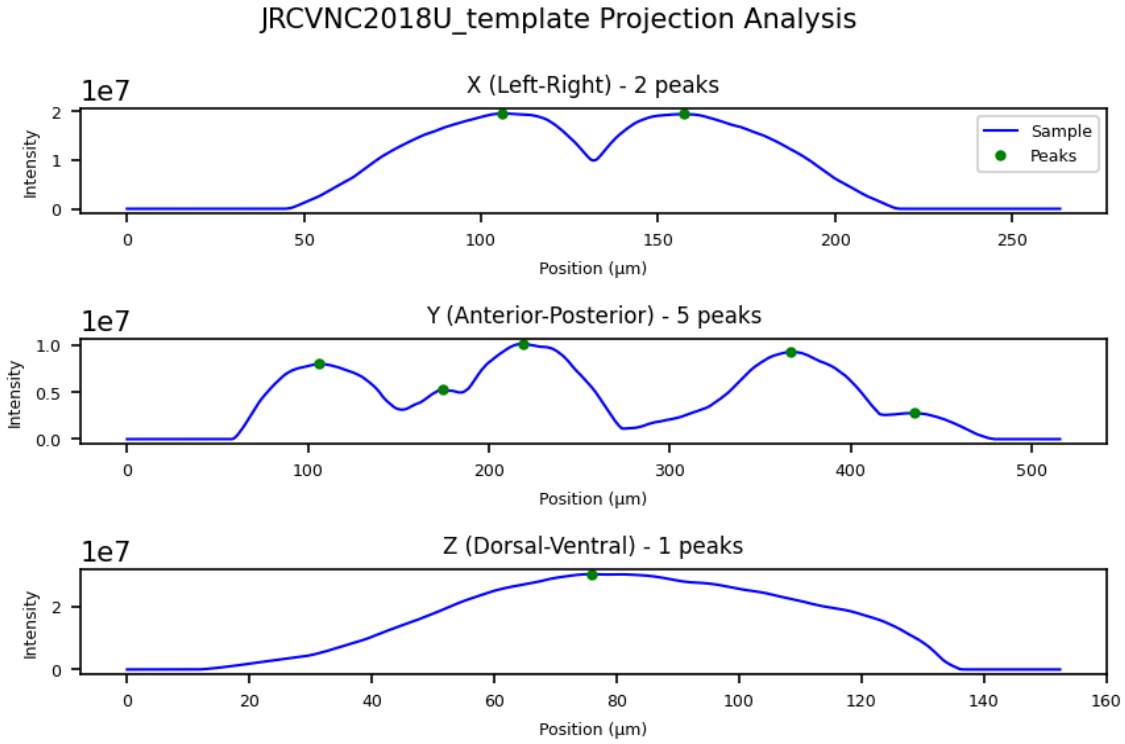




Template: JRCVNC2018U_template

Physical Dimensions: 264.0 × 516.0 × 152.8 µm
Voxel Resolution: 0.400 × 0.400 × 0.400 µm
Data Range: 0-255

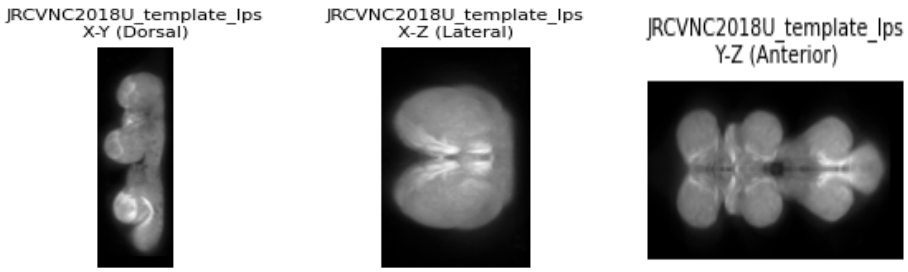
Maximum Intensity Projections:

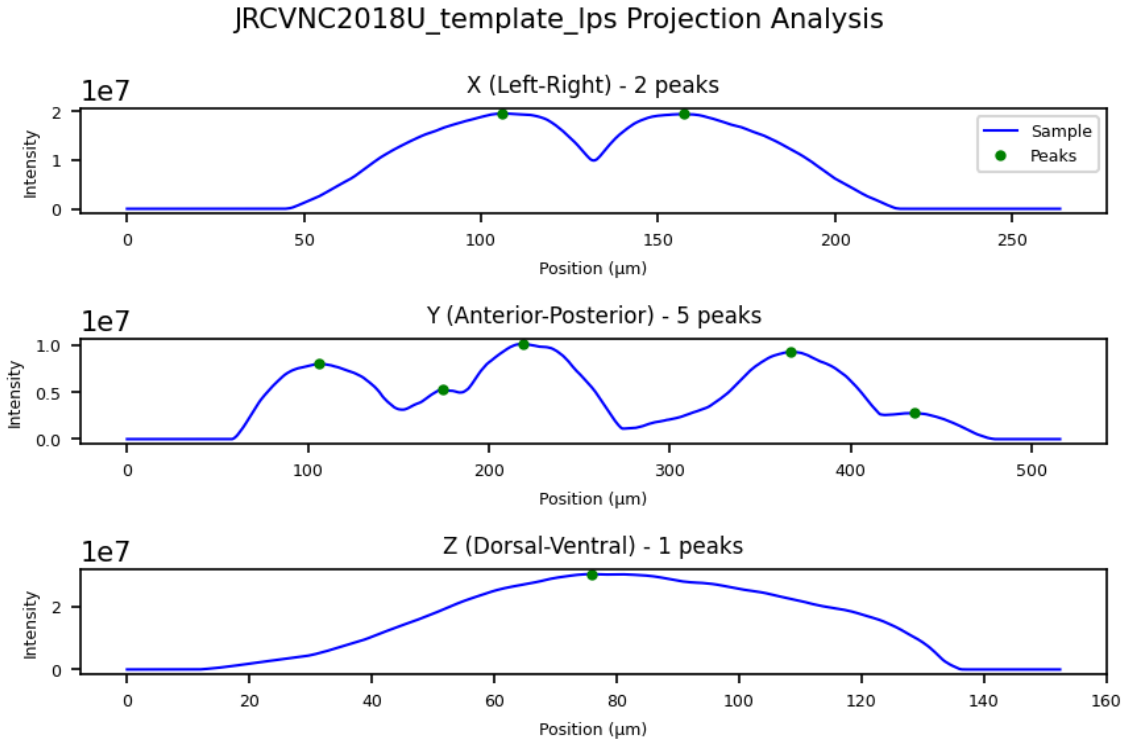


Template: JRCVNC2018U_template_lps

Physical Dimensions: 264.0 × 516.0 × 152.8 µm
Voxel Resolution: 0.400 × 0.400 × 0.400 µm
Data Range: 0-255

Maximum Intensity Projections:



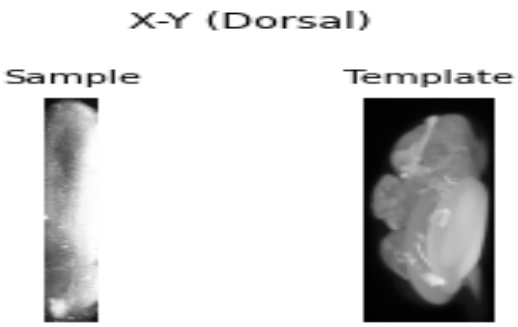


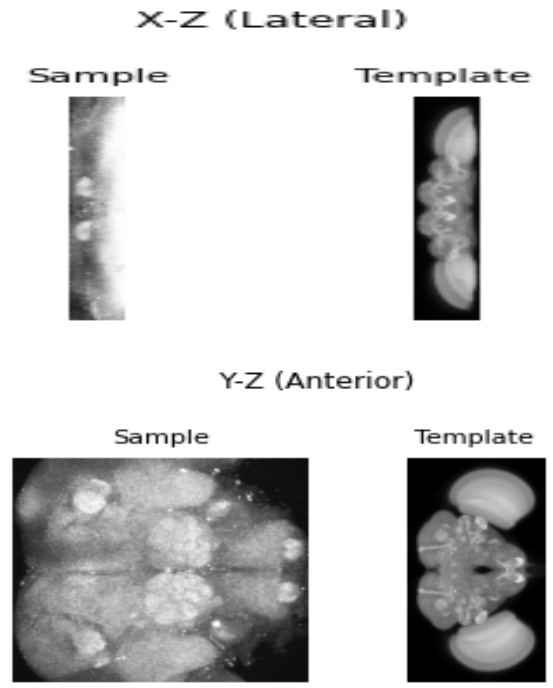
Sample Analysis Results

Sample: Brain_SPR8AD.dsxDBD.FB1.1.Nc82.Brain.40x.3_background

Template Used: JRC2018U_template_lps
Physical Dimensions: 387.9 × 387.9 × 112.6 µm
Voxel Resolution: 0.379 × 0.379 × 0.901 µm
Orientation Correct: No
Changes Needed: 90° rotation (X-Y swap)

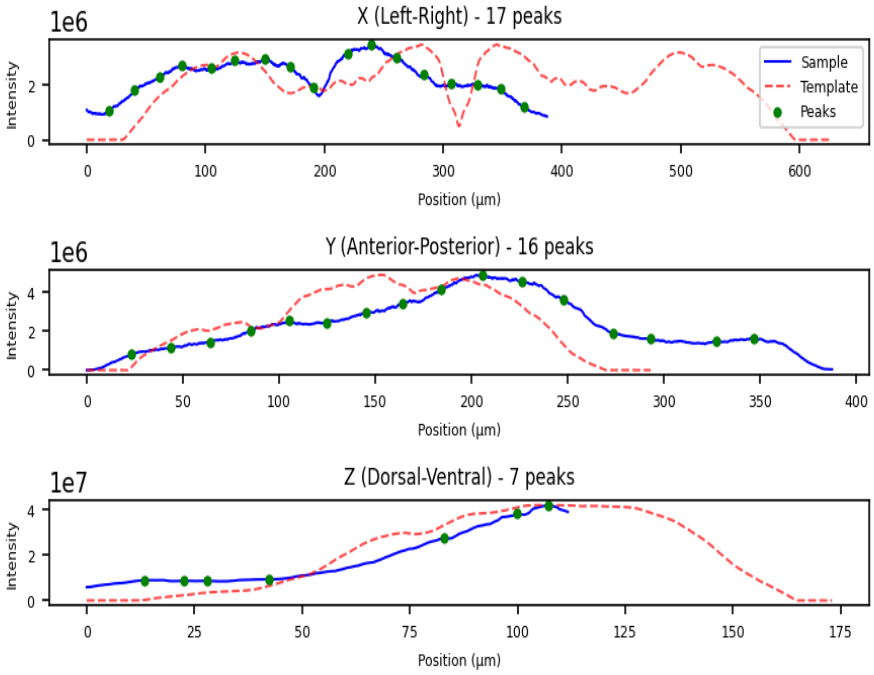
Maximum Intensity Projections Comparison (Sample vs Template):





Signal Channel Projections:

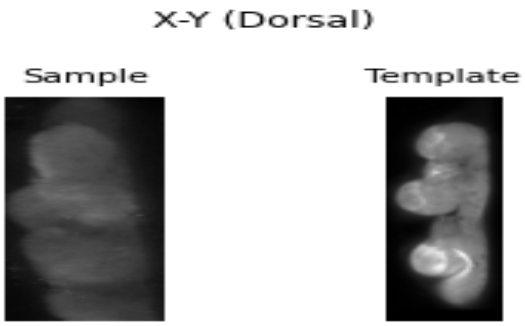
Brain_SPR8AD.dsxDBD.FB1.1.Nc82.Brain.40x.3_background vs JRC2018U_template_Ips Projection Analysis

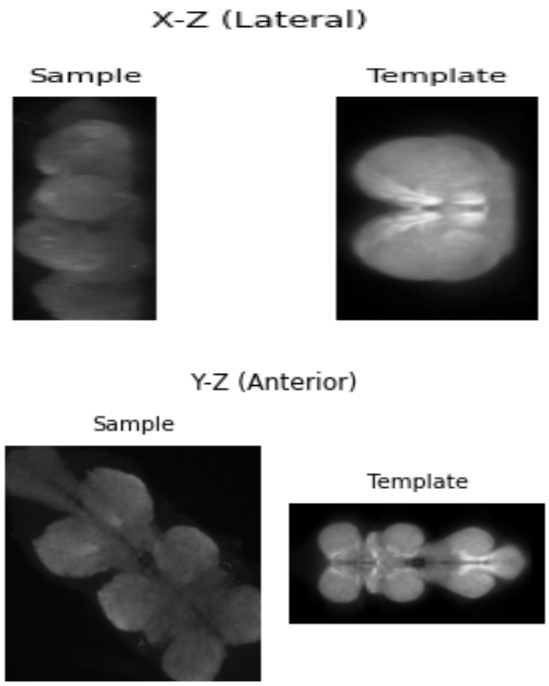


Sample: VNC_SPR8AD.FD6DBD_FB1.1_nc82647_S1_background

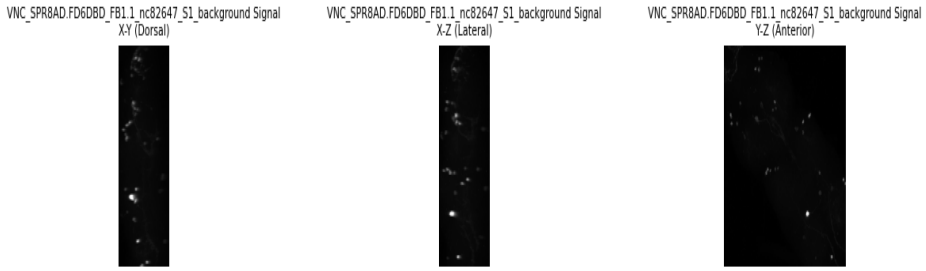
Template Used: JRCVNC2018U_template
Physical Dimensions: 387.9 × 387.9 × 126.3 µm
Voxel Resolution: 0.379 × 0.379 × 0.300 µm
Orientation Correct: Yes
Changes Needed: None

Maximum Intensity Projections Comparison (Sample vs Template):

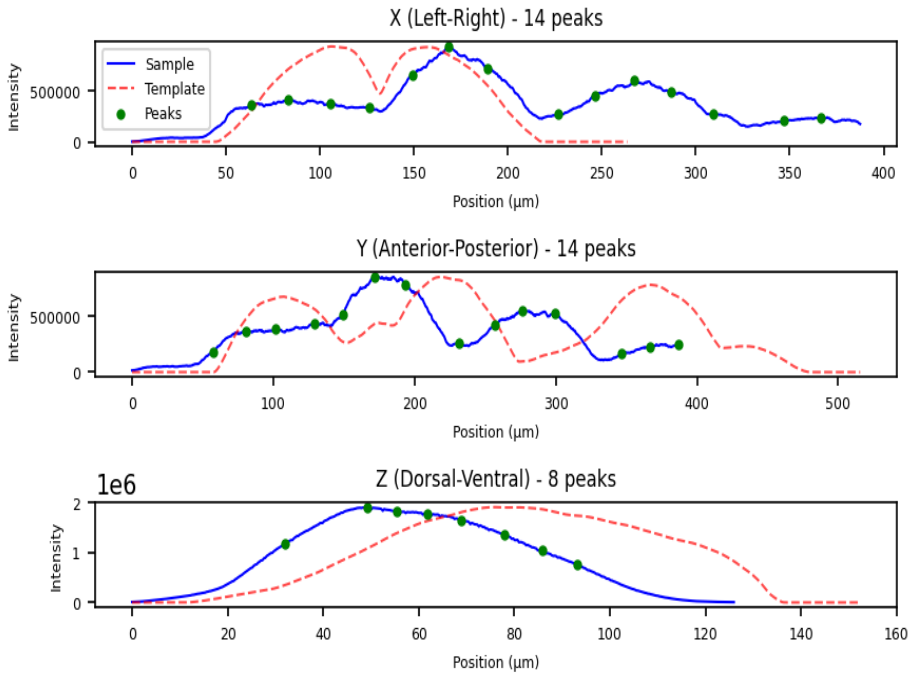




Signal Channel Projections:



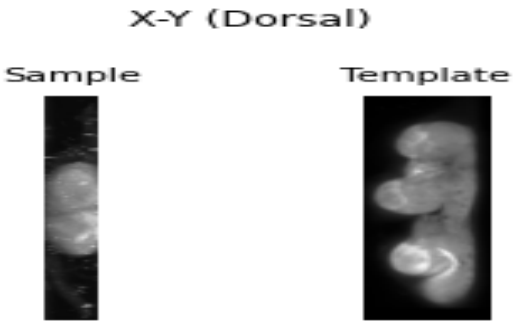
VNC_SPR8AD.FD6DBD_FB1.1_nc82647_S1_background vs JRCVNC2018U_template Projection Analysis

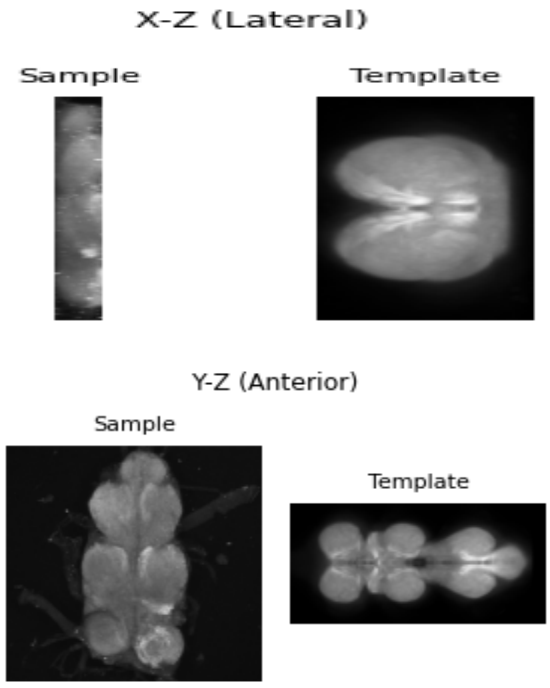


Sample: VNC_Fru11.12AD.dsxDBD.FB1.1.Brain.40x.8.composite_background

Template Used: JRCVNC2018U_template
Physical Dimensions: 612.4 × 612.4 × 117.1 µm
Voxel Resolution: 0.598 × 0.598 × 0.901 µm
Orientation Correct: Yes
Changes Needed: None

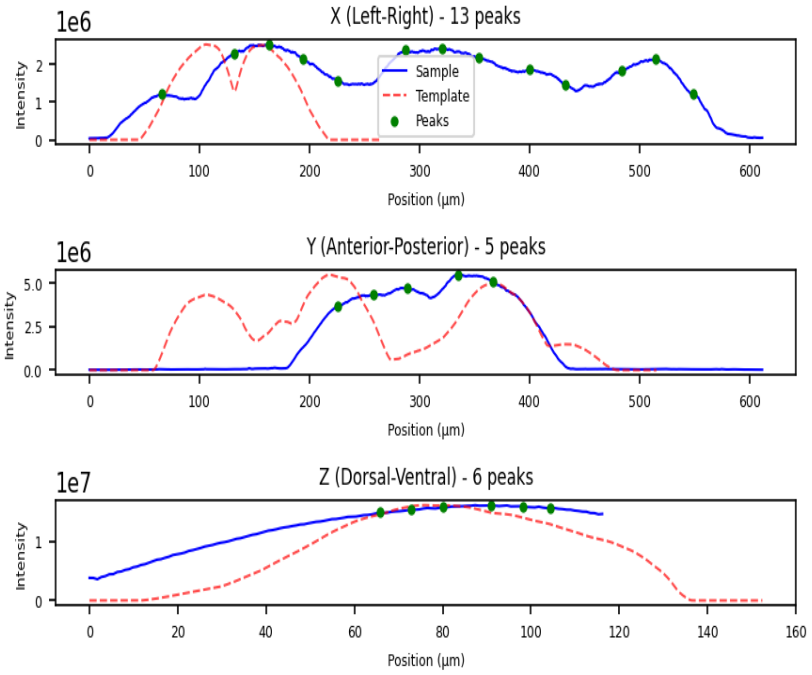
Maximum Intensity Projections Comparison (Sample vs Template):





Signal Channel Projections:

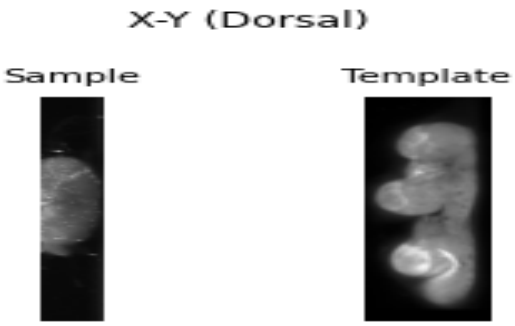
VNC_Fru11.12AD.dsxDBD.FB1.1.Brain.40x.8.composite_background vs JRCVNC2018U_template Projection Analysis

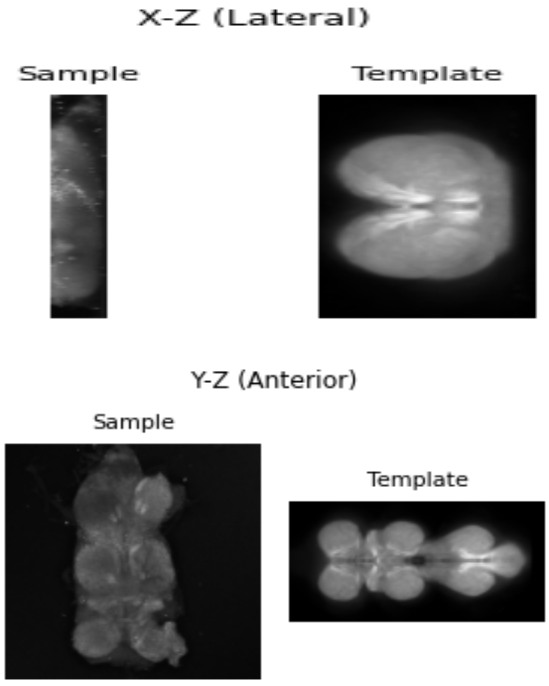


Sample: VNC_SPR8AD.dsxDBD.FB1.1.Nc82.Brain.40x.3_background

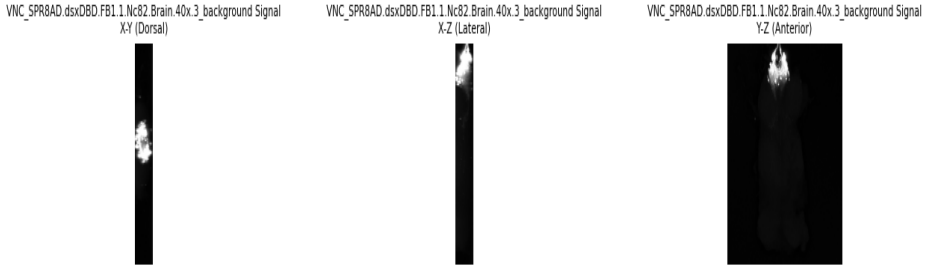
Template Used: JRCVNC2018U_template
Physical Dimensions: 612.4 × 612.4 × 137.8 µm
Voxel Resolution: 0.598 × 0.598 × 0.901 µm
Orientation Correct: Yes
Changes Needed: None

Maximum Intensity Projections Comparison (Sample vs Template):

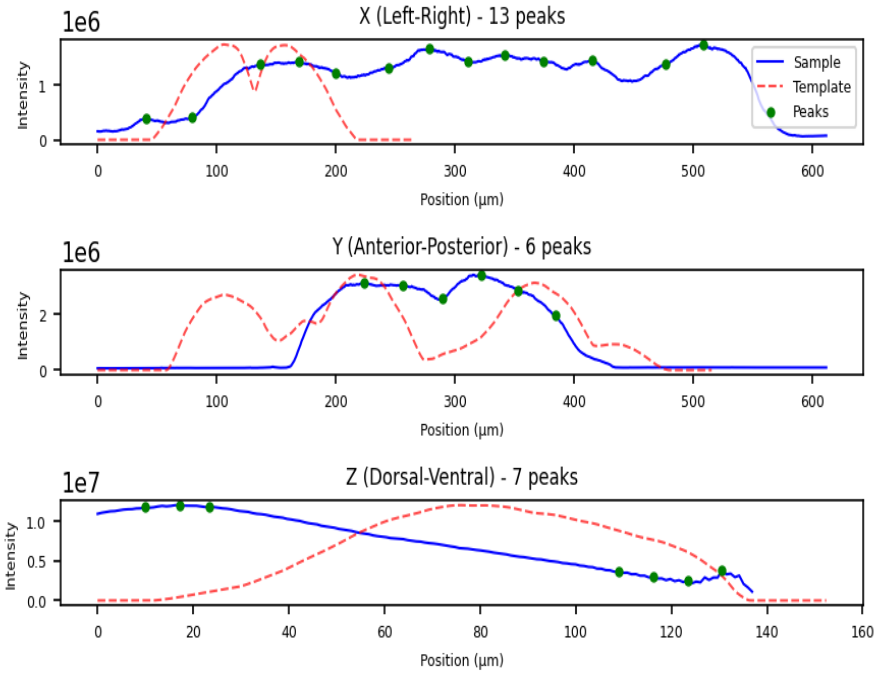




Signal Channel Projections:



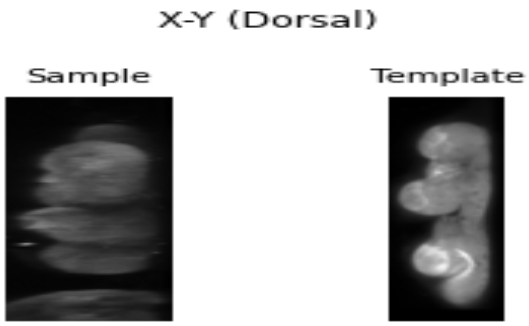
VNC_SPR8AD.dsxDBD.FB1.1.Nc82.Brain.40x.3_background vs JRCVNC2018U_template Projection Analysis

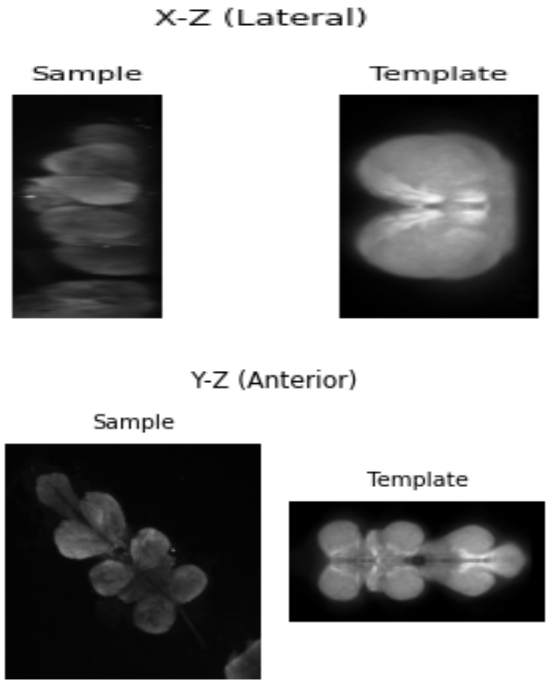


Sample: VNC_Fru11.12AD_FD6DBD_FB1.1_NC82_S1_background

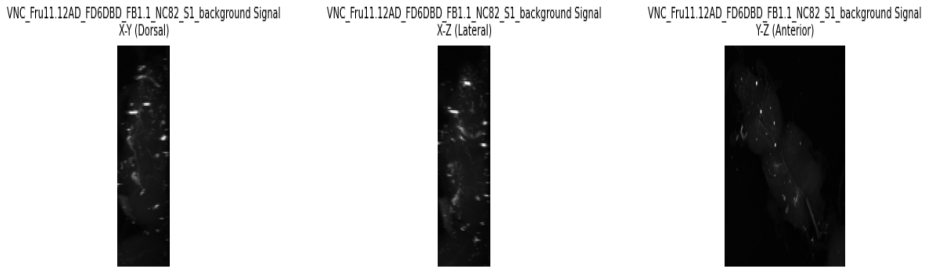
Template Used: JRCVNC2018U_template
Physical Dimensions: 596.3 × 596.3 × 133.5 µm
Voxel Resolution: 0.582 × 0.582 × 0.300 µm
Orientation Correct: Yes
Changes Needed: None

Maximum Intensity Projections Comparison (Sample vs Template):

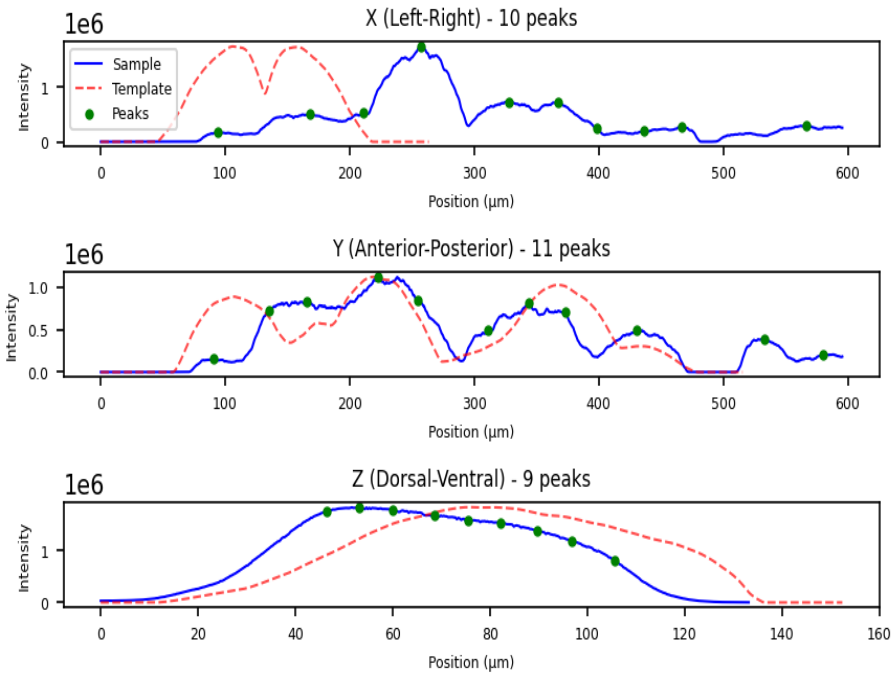




Signal Channel Projections:



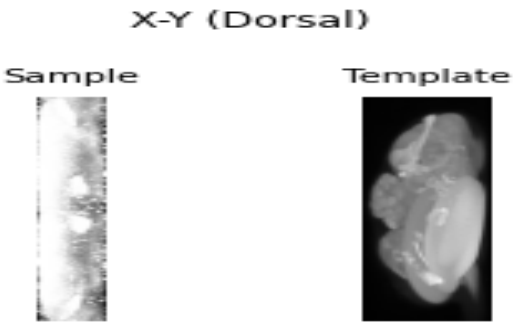
VNC_Fru11.12AD_FD6DBD_FB1.1_NC82_S1_background vs JRCVNC2018U_template Projection Analysis

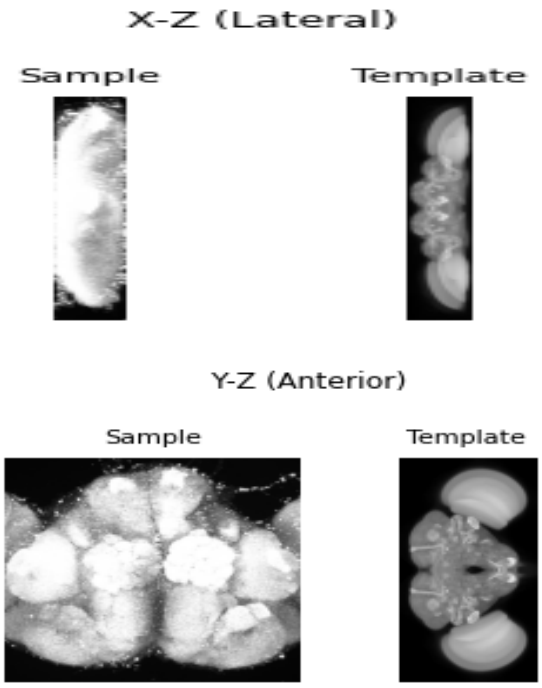


Sample: Fru11.12AD.dsxDBD.FB1.1.Brain.40x.8.composite_background

Template Used: JRC2018U_template_lps
Physical Dimensions: 387.9 × 387.9 × 147.7 µm
Voxel Resolution: 0.379 × 0.379 × 0.901 µm
Orientation Correct: No
Changes Needed: 90° rotation (X-Y swap)

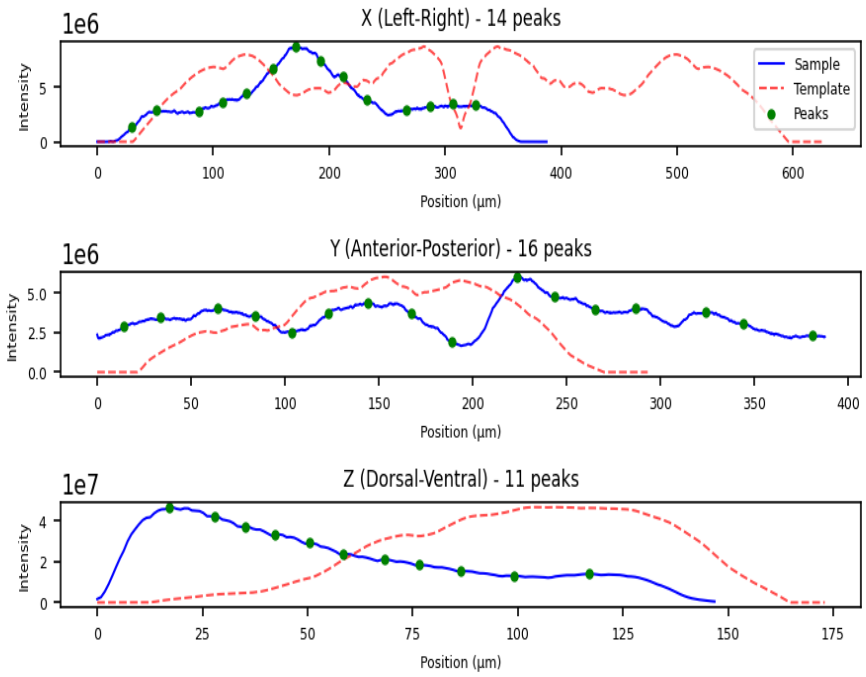
Maximum Intensity Projections Comparison (Sample vs Template):





Signal Channel Projections:

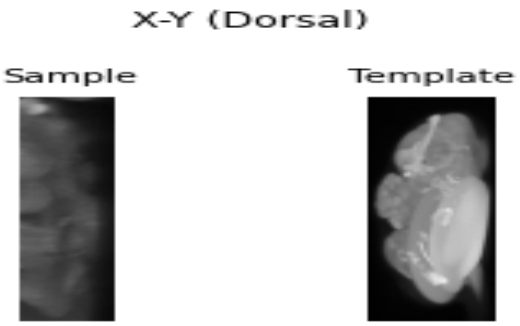
Fru11.12AD.dsxDBD.FB1.1.Brain.40x.8.composite_background vs JRC2018U_template_lps Projection Analysis

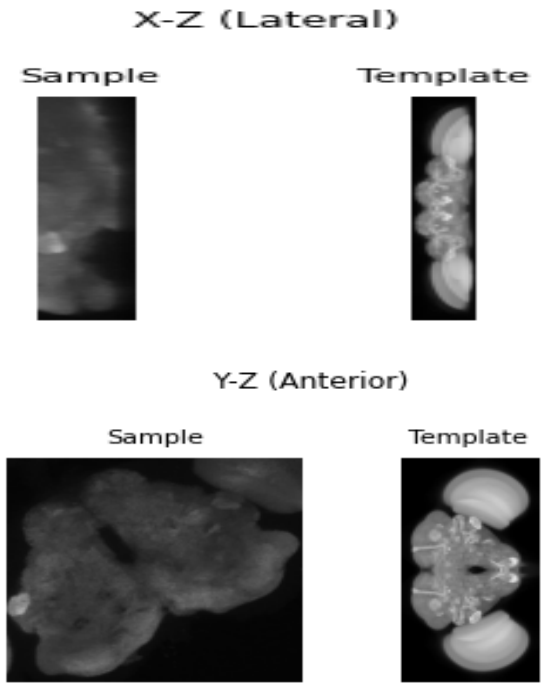


Sample: Brain_SPR8AD.FD6DBD_FB1.1_nc82647_S1_background

Template Used: JRC2018U_template_lps
Physical Dimensions: 368.2 × 368.2 × 70.8 µm
Voxel Resolution: 0.360 × 0.360 × 0.300 µm
Orientation Correct: No
Changes Needed: 90° rotation (X-Y swap)

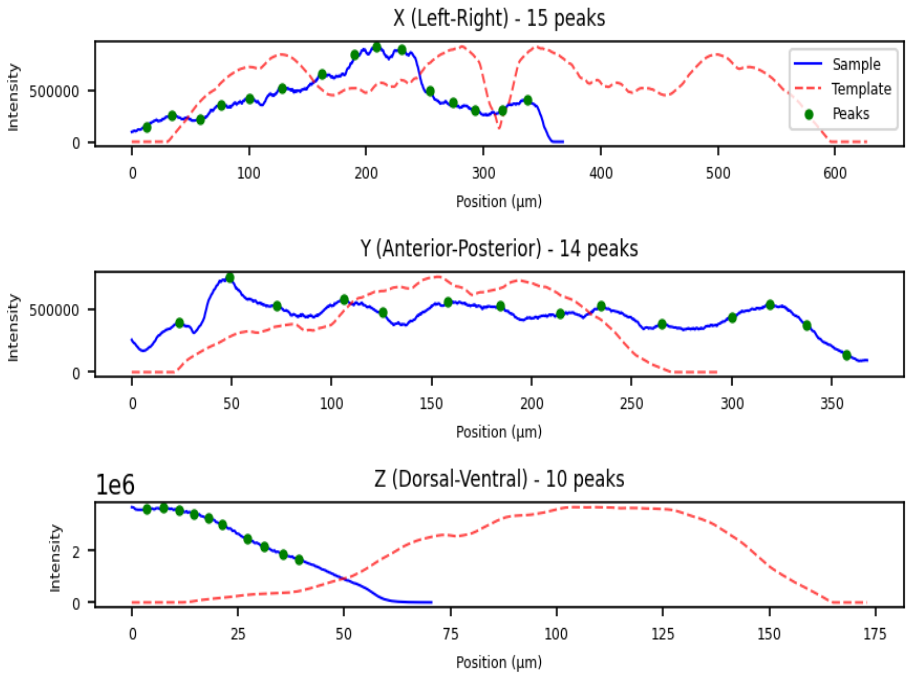
Maximum Intensity Projections Comparison (Sample vs Template):





Signal Channel Projections:

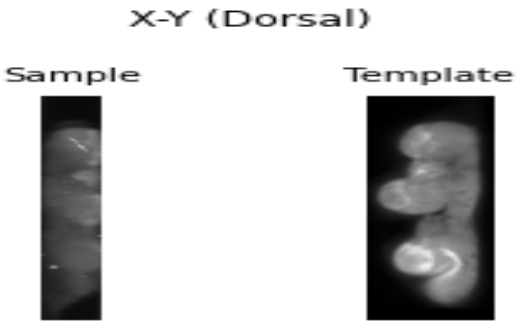
Brain_SPR8AD.FD6DBD_FB1.1_nc82647_S1_background vs JRC2018U_template_lps Projection Analysis

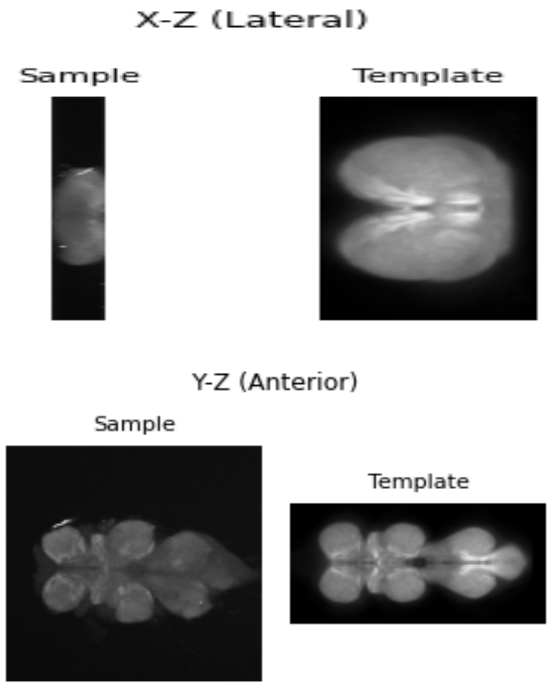


Sample: VNC_SPR8AD.Fru11.12DBD.FB1.1.NC82.Brain.40x.1.composite_background

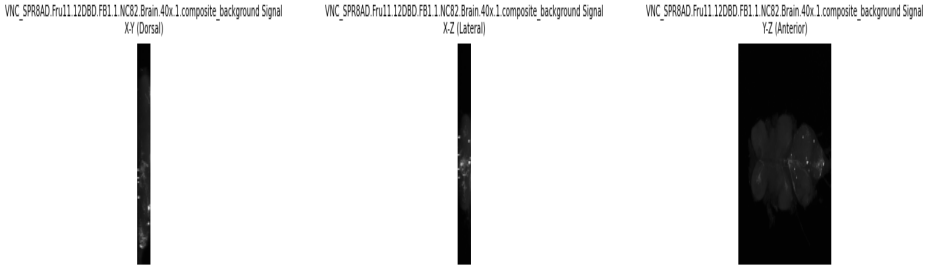
Template Used: JRCVNC2018U_template
Physical Dimensions: 646.5 × 646.5 × 126.1 µm
Voxel Resolution: 0.631 × 0.631 × 0.901 µm
Orientation Correct: Yes
Changes Needed: None

Maximum Intensity Projections Comparison (Sample vs Template):

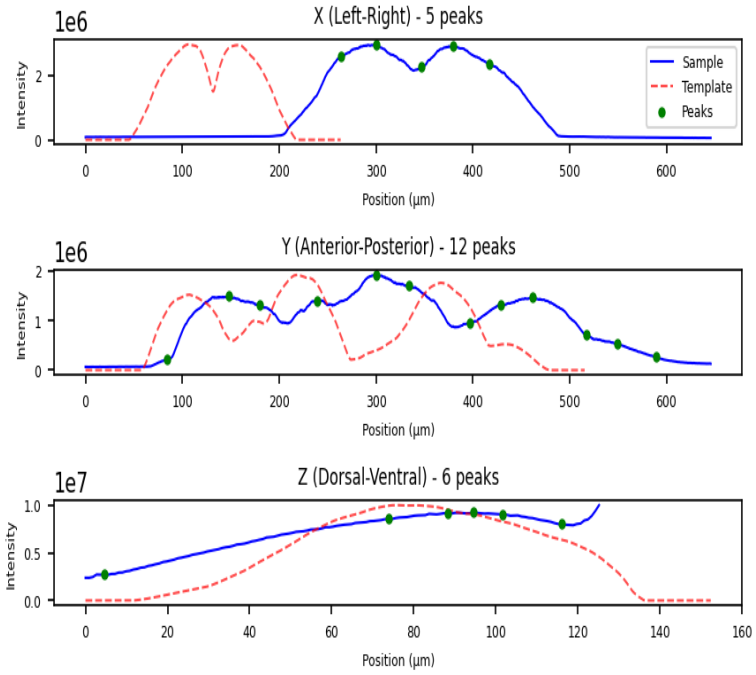




Signal Channel Projections:



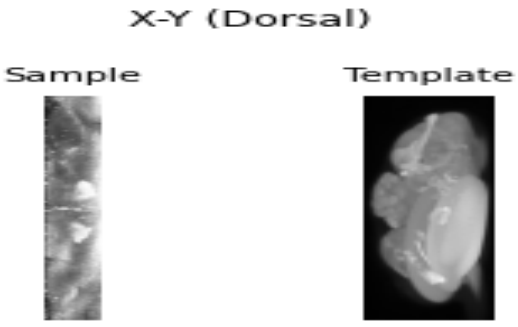
VNC_SPR8AD.Fru11.12DBD.FB1.1.NC82.Brain.40x.1.composite_background vs JRCVNC2018U_template Projection Analysis

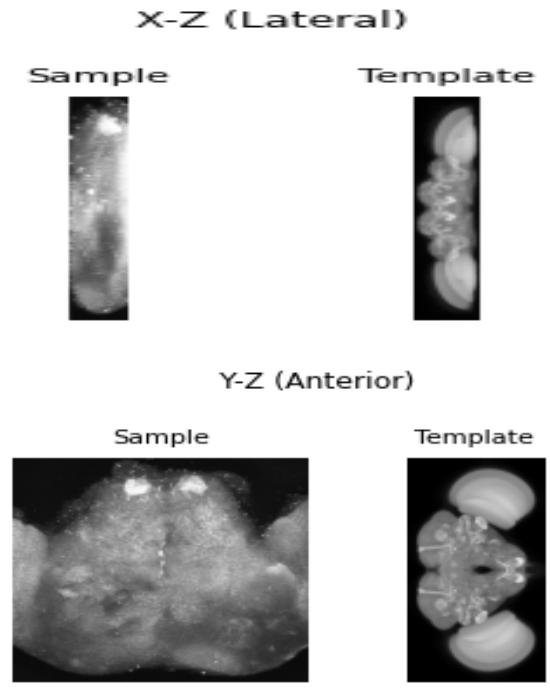


Sample: BrainSPR8AD.Fru11.12DBD.FB1.1.NC82.Brain.40x.1.composite_background

Template Used: JRC2018U_template_lps
Physical Dimensions: 387.9 × 387.9 × 118.0 µm
Voxel Resolution: 0.379 × 0.379 × 0.901 µm
Orientation Correct: No
Changes Needed: 90° rotation (X-Y swap)

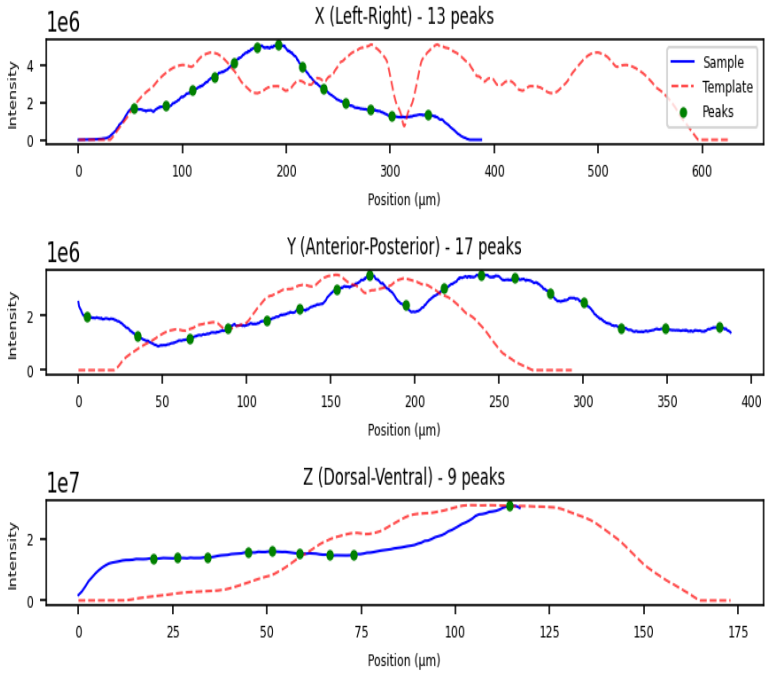
Maximum Intensity Projections Comparison (Sample vs Template):





Signal Channel Projections:

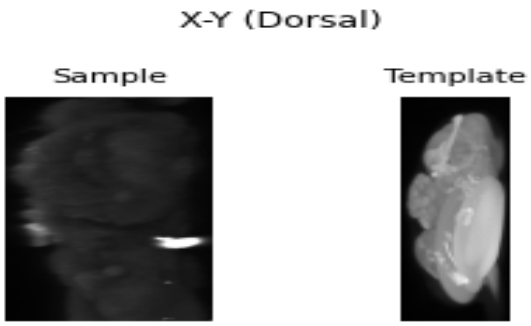
BrainSPR8AD.Fru11.12DBD.FB1.1.NC82.Brain.40x.1.composite_background vs JRC2018U_template_lps Projection Analysis



Sample: Brain_Fru11.12AD_FD6DBD_FB1.1_NC82_S1_background

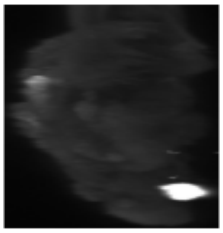
Template Used: JRC2018U_template_lps
Physical Dimensions: 313.4 × 313.4 × 179.4 µm
Voxel Resolution: 0.306 × 0.306 × 0.300 µm
Orientation Correct: No
Changes Needed: 90° rotation (X-Y swap)

Maximum Intensity Projections Comparison (Sample vs Template):



X-Z (Lateral)

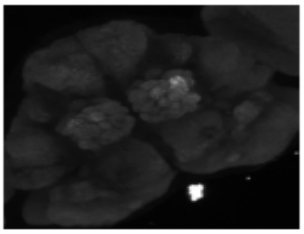
Sample



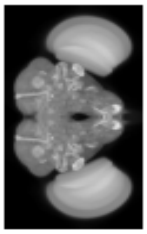
Template

Y-Z (Anterior)

Sample

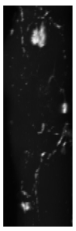


Template

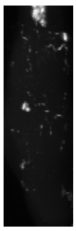


Signal Channel Projections:

Brain_Fru11.12AD_FD6DBD_FB1.1_NC82_S1_background Signal
X-Y (Dorsal)



Brain_Fru11.12AD_FD6DBD_FB1.1_NC82_S1_background Signal
X-Z (Lateral)



Brain_Fru11.12AD_FD6DBD_FB1.1_NC82_S1_background Signal
Y-Z (Anterior)

Brain_Fru11.12AD_FD6DBD_FB1.1_NC82_S1_background vs JRC2018U_template_lps Projection Analysis