Figure 1: Visualization of the Allen Developing Mouse Brain Atlas data for age E13.5 after projecting to 2-D space using t-SNE (left column) and PCA (right column) at multiple levels of the ontology. The three rows correspond to Levels 1, 3, and 5. Each point corresponds to a brain voxel, which is displayed using the structure abbreviation and color of its Reference Atlas annotation.
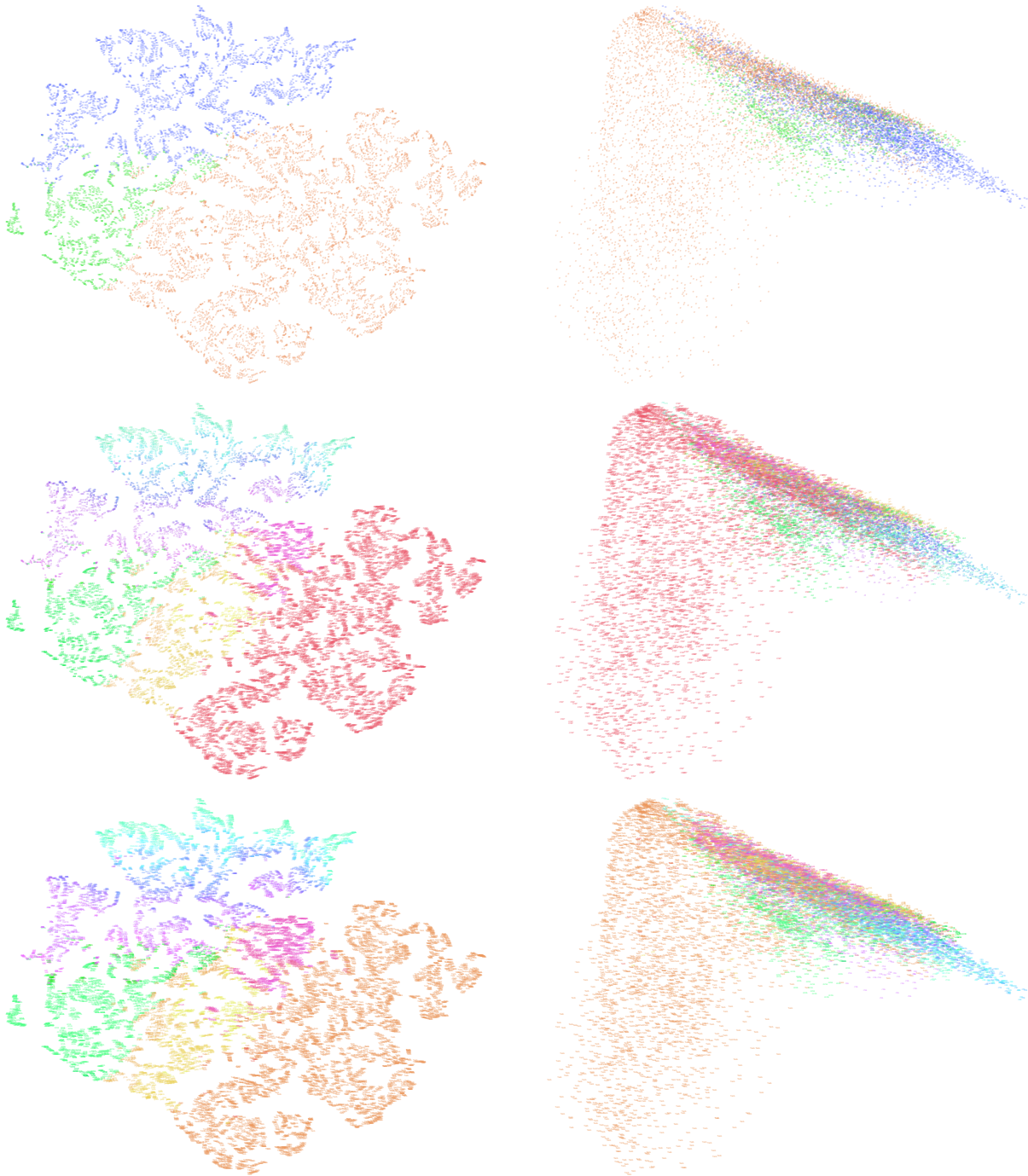
Figure 2: Visualization of the Allen Developing Mouse Brain Atlas data for age E15.5 after projecting to 2-D space using t-SNE (left column) and PCA (right column) at multiple levels of the ontology. The three rows correspond to Levels 1, 3, and 5. Each point corresponds to a brain voxel, which is displayed using the structure abbreviation and color of its Reference Atlas annotation.
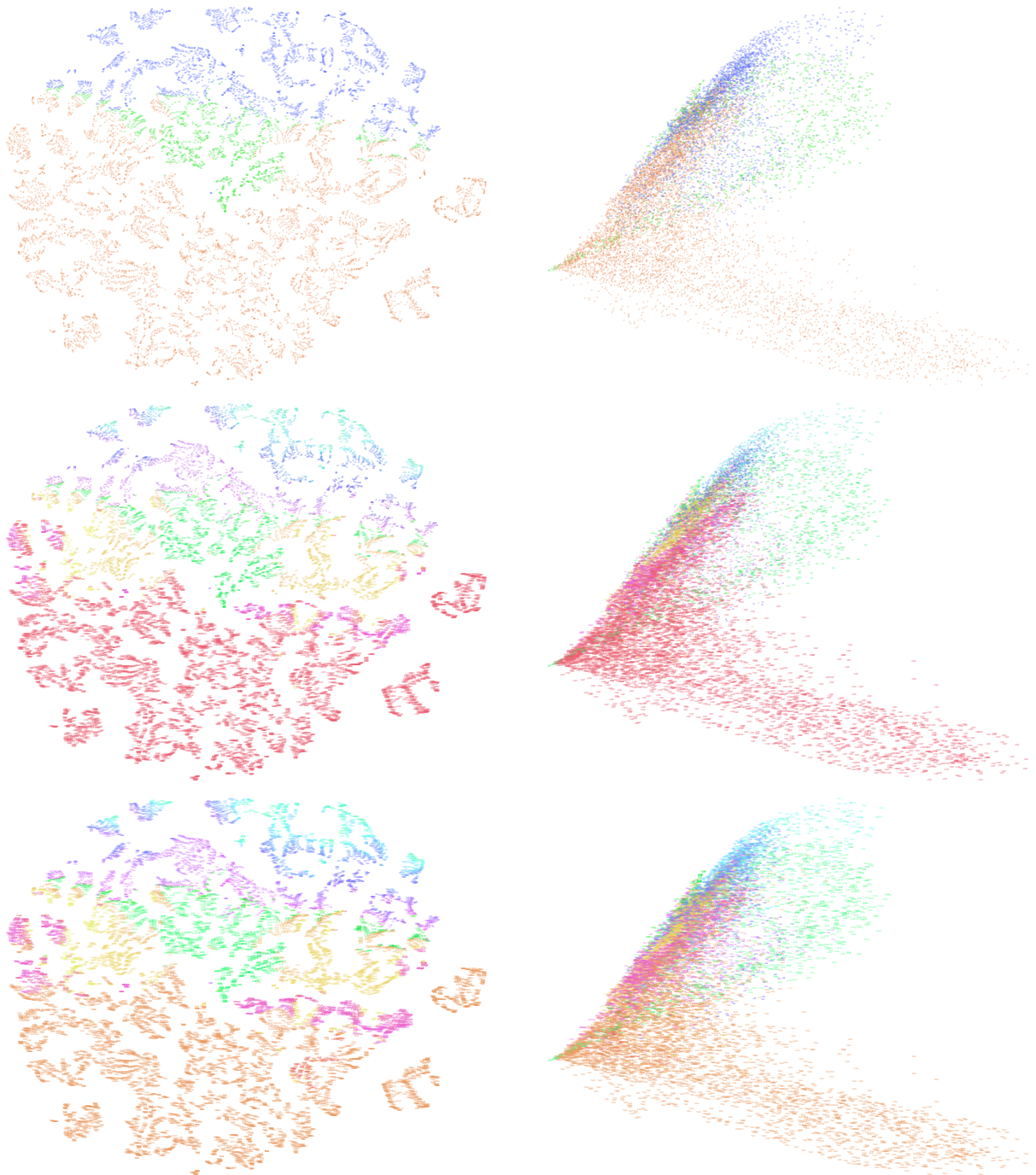
Figure 3: Visualization of the Allen Developing Mouse Brain Atlas data for age E18.5 after projecting to 2-D space using t-SNE (left column) and PCA (right column) at multiple levels of the ontology. The three rows correspond to Levels 1, 3, and 5. Each point corresponds to a brain voxel, which is displayed using the structure abbreviation and color of its Reference Atlas annotation.
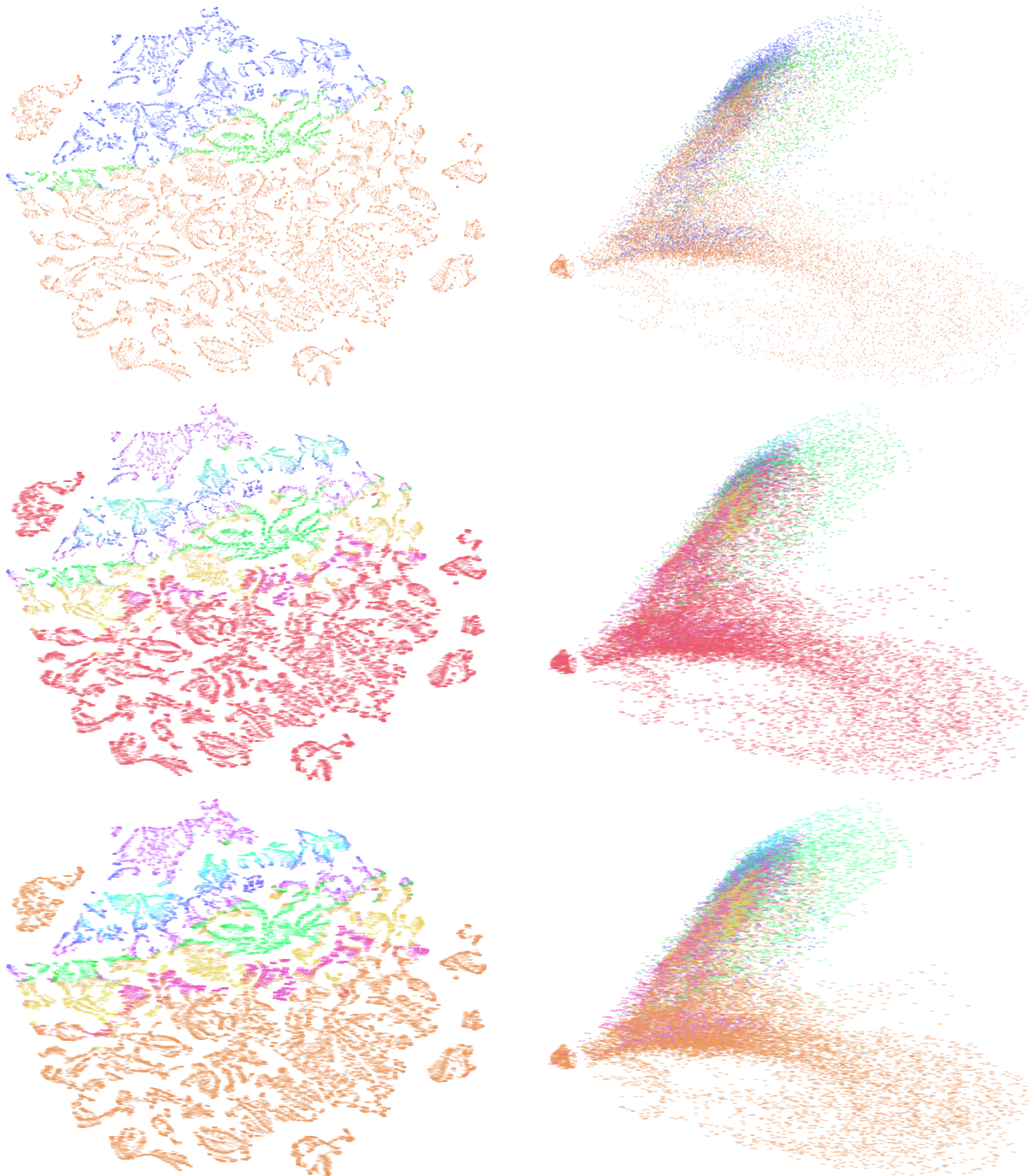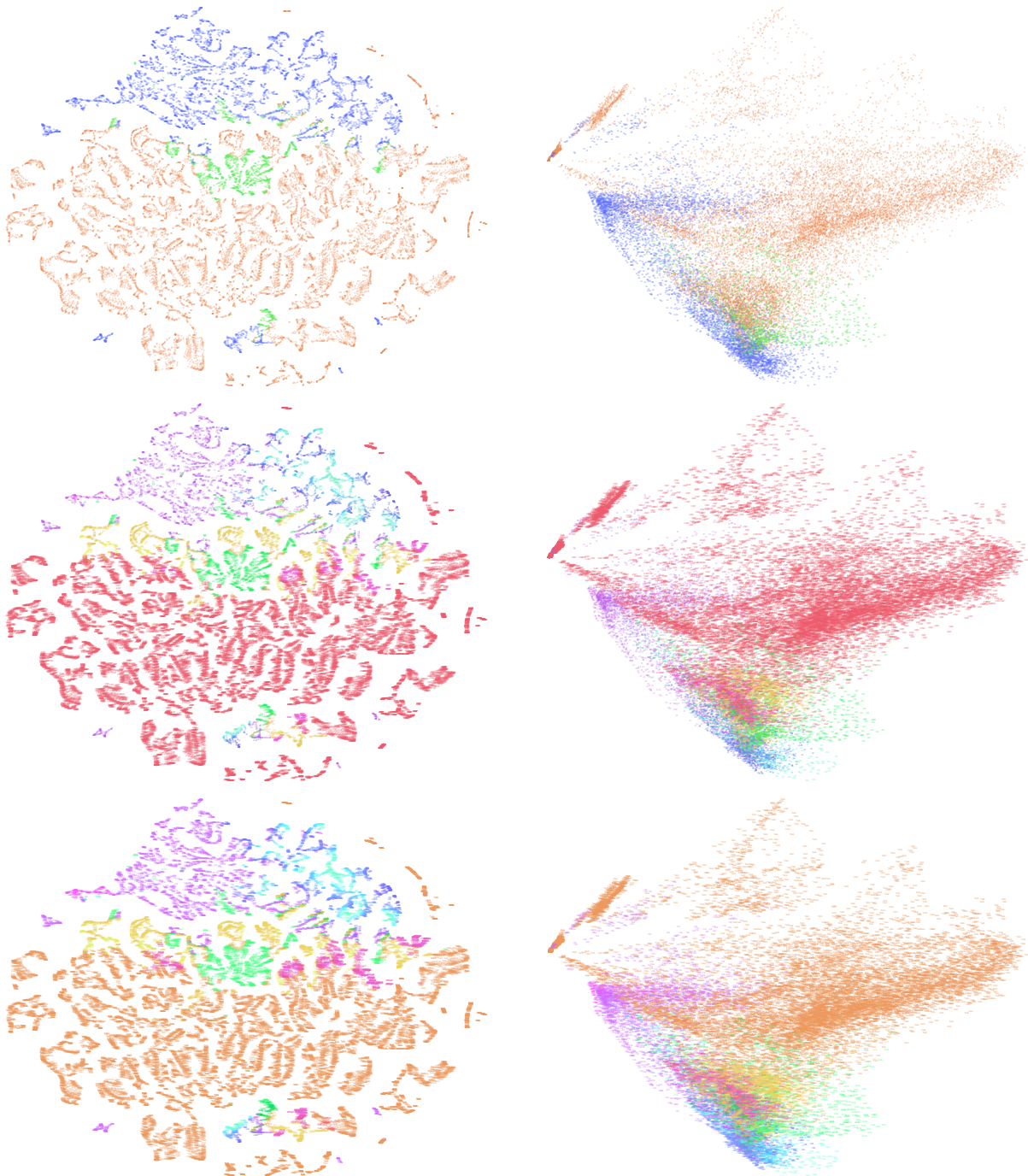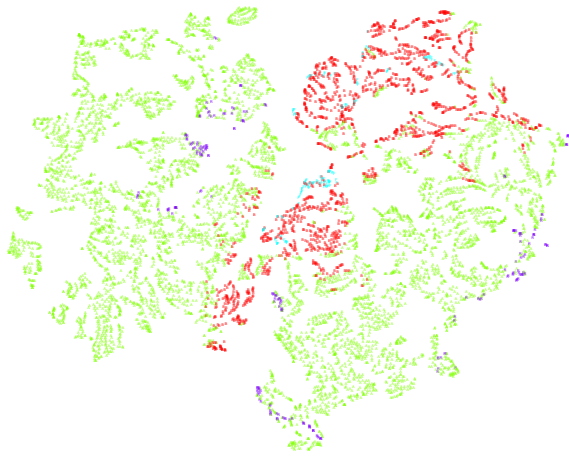
Figure 4: Visualization of the Allen Developing Mouse Brain Atlas data for age P4 after projecting to 2-D space using t-SNE (left column) and PCA (right column) at multiple levels of the ontology. The three rows correspond to Levels 1, 3, and 5. Each point corresponds to a brain voxel, which is displayed using the structure abbreviation and color of its Reference Atlas annotation.
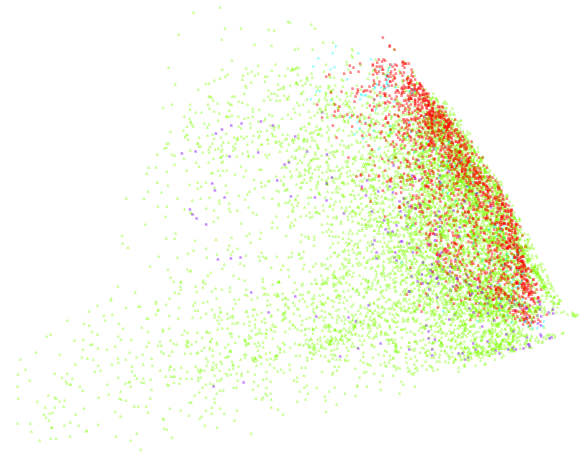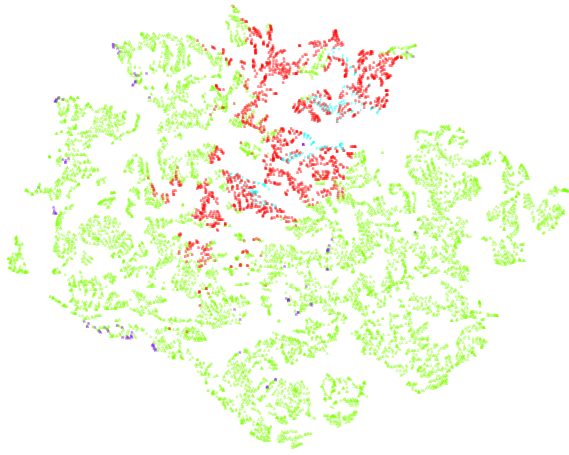
Figure 5: Visualization of the Allen Developing Mouse Brain Atlas data for age P14 after projecting to 2-D space using t-SNE (left column) and PCA (right column) at multiple levels of the ontology. The three rows correspond to Levels 1, 3, and 5. Each point corresponds to a brain voxel, which is displayed using the structure abbreviation and color of its Reference Atlas annotation.
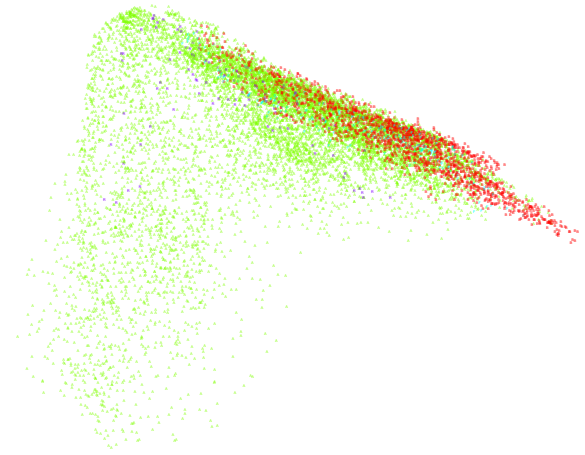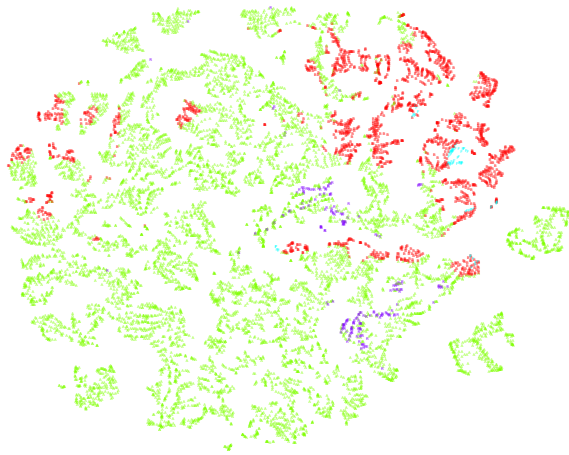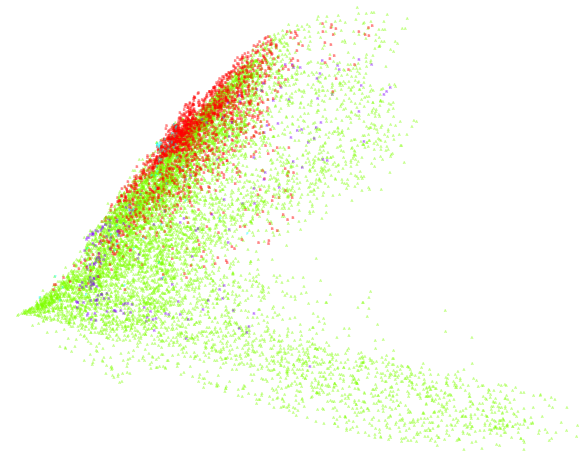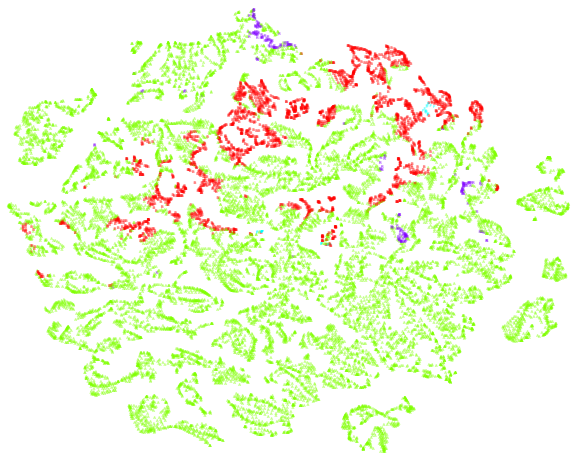
t-SNE, E13.5

PCA, E13.5
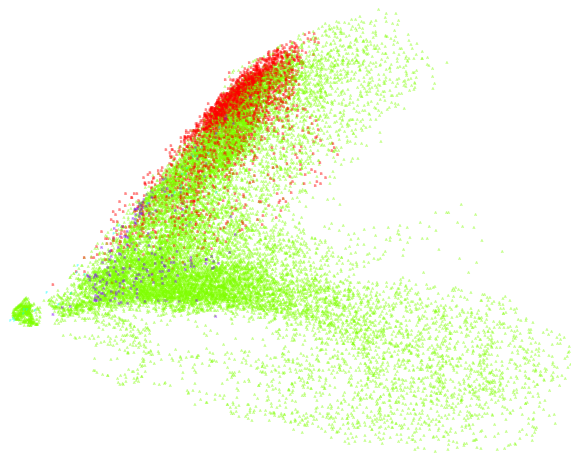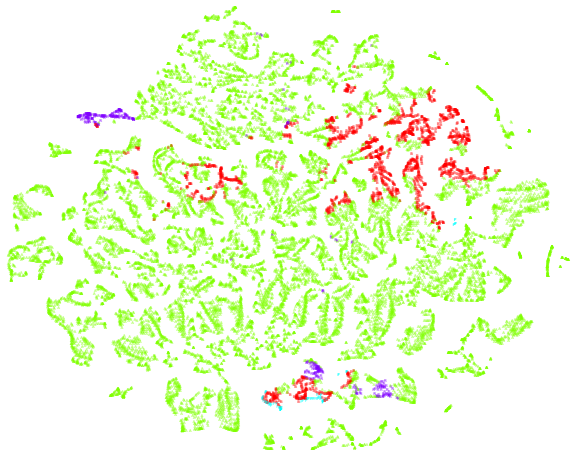
t-SNE, E15.5

PCA, E15.5

t-SNE, E18.5

PCA, E18.5

Figure 6: Visualization of the Allen Developing Mouse Brain Atlas data after projecting to 2-D space using t-SNE and PCA. Each point corresponds to a brain voxel, which is displayed according to the longitudinal zones (F=floor, B=basal, A=alar, R=roof) it belongs to.
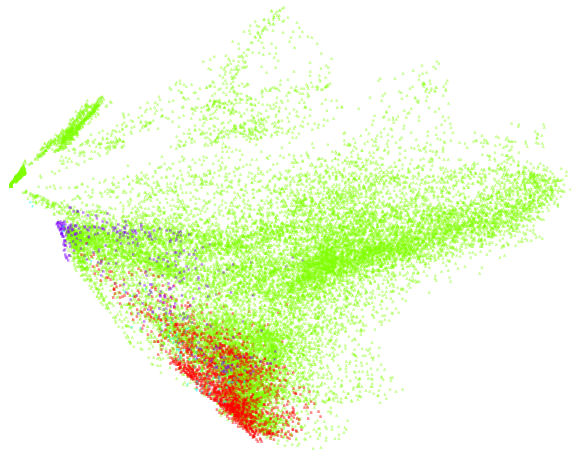
t-SNE, P4

PCA, P4

t-SNE, P14

PCA, P14

Figure 7: Visualization of the Allen Developing Mouse Brain Atlas data after projecting to 2-D space using t-SNE and PCA. Each point corresponds to a brain voxel, which is displayed according to the longitudinal zones (F=floor, B=basal, A=alar, R=roof) it belongs to.