

```

In[ ]:= v1Color = RGBColor["#ff1f5b"];

In[ ]:= lpColor = RGBColor["#009ade"];

In[ ]:= lmColor = RGBColor["#f28522"];

(*****)

dateMouseSessionListV1toV2m =
  {"082320", "Mouse21060", "Session1"}, {"090720", "Mouse21060", "Session2"},
  {"091120", "Mouse21067", "Session1"}, {"092120", "Mouse21067", "Session2"},
  {"101720", "Mouse23392", "Session2"}, {"102520", "Mouse23392", "Session2"},
  {"101620", "Mouse23393", "Session1"}, {"101520", "Mouse23395", "Session1"},
  {"121320", "Mouse23379", "Session1"}, {"020421", "Mouse23320", "Session2"},
  {"020421", "Mouse23329", "Session2"}, {"021321", "Mouse23329", "Session2"},
  {"022821", "Mouse23329", "Session1"}, {"030821", "Mouse23329", "Session1"};

dateMouseSessionListLPtoV2m = {"110120", "Mouse23377", "Session2"},
  {"110320", "Mouse23377", "Session2"}, {"110120", "Mouse23378", "Session1"},
  {"111820", "Mouse23384", "Session1"}, {"112120", "Mouse23384", "Session2"},
  {"103020", "Mouse23394", "Session1"}, {"110220", "Mouse23394", "Session1"},
  {"120420", "Mouse23378", "Session2"}, {"120320", "Mouse23378", "Session1"},
  {"120520", "Mouse23384", "Session1"}, {"120320", "Mouse23384", "Session1"},
  {"121720", "Mouse23381", "Session1"}, {"121920", "Mouse23381", "Session2"},
  {"010821", "Mouse23339", "Session2"}, {"011621", "Mouse23339", "Session1"},
  {"011621", "Mouse23369", "Session1"}, {"070722", "Mouse23067", "Session1"},
  {"070722", "Mouse23075", "Session1"}, {"071022", "Mouse23075", "Session2"};

dateMouseSessionListLMtoV2m =
  {"092221", "Mouse22422", "Session2"}, {"100421", "Mouse22422", "Session2"},
  {"101121", "Mouse22422", "Session2"}, {"081321", "Mouse22437", "Session1"},
  {"081821", "Mouse22437", "Session2"}, {"083021", "Mouse22437", "Session1"},
  {"092321", "Mouse22472", "Session2"}, {"101121", "Mouse22472", "Session1"},
  {"081921", "Mouse22491", "Session2"}, {"101921", "Mouse22436", "Session1"},
  {"102121", "Mouse22472", "Session2"}, {"102821", "Mouse22436", "Session1"},
  {"071322", "Mouse23025", "Session1"}, {"071022", "Mouse23100", "Session1"},
  {"070822", "Mouse23014", "Session1"}, {"071322", "Mouse23014", "Session1"},
  {"070722", "Mouse22518", "Session1"}, {"071522", "Mouse22518", "Session1"};

In[ ]:= (*****)

In[ ]:= osiValsV1toV2m = Flatten[ToExpression /@ Import[
  "F:/FigureGeneration/FigureS2/FigureS2Data/Axons/V1toV2m/ValuesForPlotting/
  osiVals_V1toV2m_nonDupROIs.txt", "List"]];

In[ ]:= osiValsLPtoV2m = Flatten[ToExpression /@ Import[
  "F:/FigureGeneration/FigureS2/FigureS2Data/Axons/LPtoV2m/ValuesForPlotting/
  osiVals_LPtoV2m_nonDupROIs.txt", "List"]];

In[ ]:= osiValsLMtoV2m = Flatten[ToExpression /@ Import[
  "F:/FigureGeneration/FigureS2/FigureS2Data/Axons/LMtoV2m/ValuesForPlotting/
  osiVals_LMtoV2m_nonDupROIs.txt", "List"]];

```

```

In[ ]:= v1AxonCharts =
  Show[BoxWhiskerChart[osiValsV1toV2m, {"Whiskers", Directive[Darker@v1Color, Thick]},
    {"Fences", Directive[Darker@v1Color, Thick]},
    {"MedianMarker", Directive[Darker@v1Color, Thickness[0.009]]}],
    PlotRange → {All, {0, 1}}, ChartStyle → Directive[v1Color, Opacity[0.3]],
    Frame → False], DistributionChart[osiValsV1toV2m, PlotRange → {All, {0, 1}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], v1Color], Frame → False],
    FrameTicks → {{LinTicks[0, 1, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}],
    None}, {None, None}}, Axes → False, TicksStyle → Thick,
    FrameStyle → Directive[Transparent, Thick], Frame → {{True, None}, {None, None}},
    FrameTicksStyle → Directive[FontOpacity → 0, FontSize → 0]];

In[ ]:= lmAxonCharts =
  Show[BoxWhiskerChart[osiValsLMtoV2m, {"Whiskers", Directive[Darker@lmColor, Thick]},
    {"Fences", Directive[Darker@lmColor, Thick]},
    {"MedianMarker", Directive[Darker@lmColor, Thickness[0.009]]}],
    PlotRange → {All, {0, 1}}, ChartStyle → Directive[lmColor, Opacity[0.3]],
    Frame → False], DistributionChart[osiValsLMtoV2m, PlotRange → {All, {0, 1}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lmColor], Frame → False],
    FrameTicks → {{LinTicks[0, 1, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}],
    None}, {None, None}}, Axes → False, TicksStyle → Thick,
    FrameStyle → Directive[Transparent, Thick], Frame → {{True, None}, {None, None}},
    FrameTicksStyle → Directive[FontOpacity → 0, FontSize → 0]];

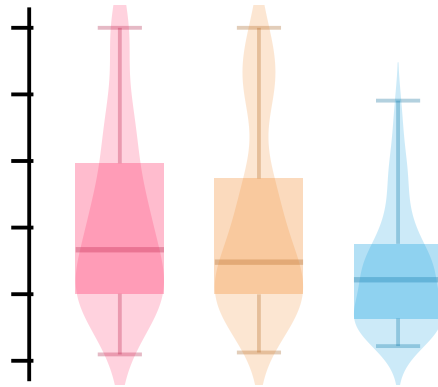
In[ ]:= lpAxonCharts =
  Show[BoxWhiskerChart[osiValsLPtoV2m, {"Whiskers", Directive[Darker@lpColor, Thick]},
    {"Fences", Directive[Darker@lpColor, Thick]},
    {"MedianMarker", Directive[Darker@lpColor, Thickness[0.009]]}],
    PlotRange → {All, {0, 1}}, ChartStyle → Directive[lpColor, Opacity[0.3]],
    Frame → False], DistributionChart[osiValsLPtoV2m, PlotRange → {All, {0, 1}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lpColor], Frame → False],
    FrameTicks → {{LinTicks[0, 1, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}],
    None}, {None, None}}, Axes → False, TicksStyle → Thick,
    FrameStyle → Directive[Transparent, Thick], Frame → {{True, None}, {None, None}},
    FrameTicksStyle → Directive[FontOpacity → 0, FontSize → 0]];

In[ ]:= transp =
  Show[BoxWhiskerChart[osiValsLPtoV2m, {"Whiskers", Directive[Transparent, Thick]},
    {"Fences", Directive[Transparent, Thick]},
    {"MedianMarker", Directive[Transparent, Thickness[0.009]]}],
    PlotRange → {All, {0, 1}}, ChartStyle → Transparent, Frame → False],
    DistributionChart[osiValsLPtoV2m, PlotRange → {All, {0, 1}}, ChartStyle →
    Directive[EdgeForm[Transparent], Opacity[0.2], Transparent], Frame → False],
    FrameTicks → {{LinTicks[0, 1, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}],
    None}, {None, None}}, Axes → False, TicksStyle → Thick,
    FrameStyle → Directive[Black, Thick], Frame → {{True, None}, {None, None}},
    FrameTicksStyle → Directive[FontOpacity → 0, FontSize → 0]];

```

```
In[ ]:= GraphicsRow[{v1AxonCharts, lmAxonCharts, lpAxonCharts, transp},
  Spacings -> {{-280, -280, -280, -400}}]
```

```
Out[ ]:=
```



```
In[ ]:= (*****)
```

```
In[ ]:= dsiValsV1toV2m = Flatten[ToExpression /@ Import[
  "C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Axons/V1toV2m/
  ValuesForPlotting/dsiVals_V1toV2m_nonDupROIs.txt", "List"]];
```

```
In[ ]:= dsiValsLPtoV2m = Flatten[ToExpression /@ Import[
  "C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Axons/LPtoV2m/
  ValuesForPlotting/dsiVals_LPtoV2m_nonDupROIs.txt", "List"]];
```

```
In[ ]:= dsiValsLMtoV2m = Flatten[ToExpression /@ Import[
  "C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Axons/LMtoV2m/
  ValuesForPlotting/dsiVals_LMtoV2m_nonDupROIs.txt", "List"]];
```

```
In[ ]:= v1AxonCharts =
  Show[BoxWhiskerChart[dsiValsV1toV2m, {"Whiskers", Directive[Darker@v1Color, Thick]},
    {"Fences", Directive[Darker@v1Color, Thick]},
    {"MedianMarker", Directive[Darker@v1Color, Thickness[0.009]]}],
    PlotRange -> {All, {0, 1}}, ChartStyle -> Directive[v1Color, Opacity[0.3]],
    Frame -> False], DistributionChart[dsiValsV1toV2m, PlotRange -> {All, {0, 1}},
    ChartStyle -> Directive[EdgeForm[Transparent], Opacity[0.2], v1Color], Frame -> False],
    FrameTicks -> {{LinTicks[0, 1, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}],
      None}, {None, None}}, Axes -> False, TicksStyle -> Thick,
    FrameStyle -> Directive[Transparent, Thick], Frame -> {{True, None}, {None, None}},
    FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0]]];
```

```
In[ ]:= lmAxonCharts =
  Show[BoxWhiskerChart[dsiValsLMtoV2m, {"Whiskers", Directive[Darker@lmColor, Thick]},
    {"Fences", Directive[Darker@lmColor, Thick]},
    {"MedianMarker", Directive[Darker@lmColor, Thickness[0.009]]}],
    PlotRange -> {All, {0, 1}}, ChartStyle -> Directive[lmColor, Opacity[0.3]],
    Frame -> False], DistributionChart[dsiValsLMtoV2m, PlotRange -> {All, {0, 1}},
    ChartStyle -> Directive[EdgeForm[Transparent], Opacity[0.2], lmColor], Frame -> False],
    FrameTicks -> {{LinTicks[0, 1, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}],
      None}, {None, None}}, Axes -> False, TicksStyle -> Thick,
    FrameStyle -> Directive[Transparent, Thick], Frame -> {{True, None}, {None, None}},
    FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0]]];
```

```

In[ ]:= lpAxonCharts =
  Show[BoxWhiskerChart[dsiValsLPtoV2m, {"Whiskers", Directive[Darker@lpColor, Thick]},
    {"Fences", Directive[Darker@lpColor, Thick]},
    {"MedianMarker", Directive[Darker@lpColor, Thickness[0.009]]}],
    PlotRange → {All, {0, 1}}, ChartStyle → Directive[lpColor, Opacity[0.3]],
    Frame → False], DistributionChart[dsiValsLPtoV2m, PlotRange → {All, {0, 1}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lpColor], Frame → False],
    FrameTicks → {{LinTicks[0, 1, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}],
      None}, {None, None}}, Axes → False, TicksStyle → Thick,
    FrameStyle → Directive[Transparent, Thick], Frame → {{True, None}, {None, None}},
    FrameTicksStyle → Directive[FontOpacity → 0, FontSize → 0]];

In[ ]:= transp =
  Show[BoxWhiskerChart[dsiValsLPtoV2m, {"Whiskers", Directive[Transparent, Thick]},
    {"Fences", Directive[Transparent, Thick]},
    {"MedianMarker", Directive[Transparent, Thickness[0.009]]}],
    PlotRange → {All, {0, 1}}, ChartStyle → Transparent, Frame → False],
    DistributionChart[dsiValsLPtoV2m, PlotRange → {All, {0, 1}}, ChartStyle →
      Directive[EdgeForm[Transparent], Opacity[0.2], Transparent], Frame → False],
    FrameTicks → {{LinTicks[0, 1, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}],
      None}, {None, None}}, Axes → False, TicksStyle → Thick,
    FrameStyle → Directive[Black, Thick], Frame → {{True, None}, {None, None}},
    FrameTicksStyle → Directive[FontOpacity → 0, FontSize → 0]];

In[ ]:= GraphicsRow[{v1AxonCharts, lmAxonCharts, lpAxonCharts, transp},
  Spacings → {{-280, -280, -280, -400}}]

```

Out[ ]:=

