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

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

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

(**************************************)

dateMouseSessionListV1toV2m =
  {{"101620", "Mouse23392", "Session2"}, {"102120", "Mouse23392", "Session1"},
   {"102520", "Mouse23392", "Session1"}, {"101520", "Mouse23393", "Session1"},
   {"101420", "Mouse23395", "Session1"}, {"121320", "Mouse23379", "Session2"},
   {"121620", "Mouse23379", "Session2"}, {"122020", "Mouse23379", "Session1"},
   {"121820", "Mouse23365", "Session2"}, {"122120", "Mouse23365", "Session1"},
   {"020521", "Mouse23320", "Session1"}, {"021321", "Mouse23329", "Session1"},
   {"030121", "Mouse23329", "Session1"}, {"030621", "Mouse23329", "Session2"}};

dateMouseSessionListLPtoV2m = {{"101720", "Mouse23394", "Session2"},
   {"101920", "Mouse23394", "Session1"}, {"102020", "Mouse23394", "Session1"},
   {"102220", "Mouse23394", "Session3"}, {"100820", "Mouse23399", "Session1"},
   {"101020", "Mouse23399", "Session1"}, {"102320", "Mouse23399", "Session1"},
   {"102920", "Mouse23377", "Session2"}, {"102920", "Mouse23394", "Session2"},
   {"110120", "Mouse23394", "Session1"}, {"110320", "Mouse23394", "Session2"},
   {"103120", "Mouse23377", "Session2"}, {"110220", "Mouse23377", "Session2"},
   {"103120", "Mouse23378", "Session1"}, {"110220", "Mouse23378", "Session1"},
   {"111520", "Mouse23384", "Session2"}, {"111720", "Mouse23384", "Session1"},
   {"111820", "Mouse23384", "Session2"}, {"112120", "Mouse23384", "Session1"},
   {"120320", "Mouse23378", "Session2"}, {"120220", "Mouse23378", "Session1"},
   {"120320", "Mouse23384", "Session2"}, {"120220", "Mouse23384", "Session1"},
   {"121620", "Mouse23381", "Session1"}, {"121820", "Mouse23381", "Session1"},
   {"011121", "Mouse23369", "Session2"}, {"011521", "Mouse23369", "Session1"},
   {"010621", "Mouse23339", "Session1"}, {"010821", "Mouse23339", "Session1"},
   {"011421", "Mouse23339", "Session2"}, {"062922", "Mouse23067", "Session2"},
   {"070122", "Mouse23075", "Session1"}, {"070822", "Mouse23075", "Session2"}};

dateMouseSessionListLMtoV2m = {{"092321", "Mouse22422", "Session1"},
   {"100521", "Mouse22422", "Session1"}, {"081621", "Mouse22437", "Session2"},
   {"081821", "Mouse22437", "Session1"}, {"082421", "Mouse22437", "Session2"},
   {"092421", "Mouse22472", "Session1"}, {"101121", "Mouse22472", "Session2"},
   {"102121", "Mouse22422", "Session2"}, {"102021", "Mouse22436", "Session1"},
   {"102121", "Mouse22436", "Session2"}, {"102821", "Mouse22472", "Session1"},
   {"071322", "Mouse23100", "Session1"}, {"071022", "Mouse23014", "Session1"},
   {"070822", "Mouse22518", "Session2"}, {"071222", "Mouse22518", "Session1"}};

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

In[*]:= randDotCorrValsV1toV2m = Flatten[ToExpression /@ Import[
       "F:/FigureGeneration/FigureS2/FigureS2Data/Axons/V1toV2m/ValuesForPlotting/
        motionCoherCorrVals_V1toV2m_nonDupROIs.txt", "List"]];

In[*]:= randDotCorrValsLPtoV2m = Flatten[ToExpression /@ Import[
       "F:/FigureGeneration/FigureS2/FigureS2Data/Axons/LPtoV2m/ValuesForPlotting/
        motionCoherCorrVals_LPtoV2m_nonDupROIs.txt", "List"]];
```

```
In[ ]:= randDotCorrValsLMtoV2m = Flatten[ToExpression /@ Import[
          "F:/FigureGeneration/FigureS2/FigureS2Data/Axons/LMtoV2m/ValuesForPlotting/
            motionCoherCorrVals_LMtoV2m_nonDupROIs.txt", "List"]];

In[ ]:= randDotCorrValsV2m = Flatten[ToExpression /@ Import[
          "F:/FigureGeneration/FigureS2/FigureS2Data/CellBodies/V2m/ValuesForPlotting/
            motionCoherCorrVals_V2m.txt", "List"]];

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

In[ ]:= v1AxonCharts = Show[BoxWhiskerChart[
          randDotCorrValsV1toV2m, {{"Whiskers", Directive[Darker@v1Color, Thick]},
           {"Fences", Directive[Darker@v1Color, Thick]}, {"MedianMarker",
            Directive[Darker@v1Color, Thickness[0.009]]}}, PlotRange → {All, {-1, 1}},
          ChartStyle → Directive[v1Color, Opacity[0.3]], Frame → False],
         DistributionChart[randDotCorrValsV1toV2m, PlotRange → {All, {-1, 1}},
          ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], v1Color], Frame → False],
         FrameTicks → {{LinTicks[-1, 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[
          randDotCorrValsLMtoV2m, {{"Whiskers", Directive[Darker@lmColor, Thick]},
           {"Fences", Directive[Darker@lmColor, Thick]}, {"MedianMarker",
            Directive[Darker@lmColor, Thickness[0.009]]}}, PlotRange → {All, {-1, 1}},
          ChartStyle → Directive[lmColor, Opacity[0.3]], Frame → False],
         DistributionChart[randDotCorrValsLMtoV2m, PlotRange → {All, {-1, 1}},
          ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lmColor], Frame → False],
         FrameTicks → {{LinTicks[-1, 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[
          randDotCorrValsLPtoV2m, {{"Whiskers", Directive[Darker@lpColor, Thick]},
           {"Fences", Directive[Darker@lpColor, Thick]}, {"MedianMarker",
            Directive[Darker@lpColor, Thickness[0.009]]}}, PlotRange → {All, {-1, 1}},
          ChartStyle → Directive[lpColor, Opacity[0.3]], Frame → False],
         DistributionChart[randDotCorrValsLPtoV2m, PlotRange → {All, {-1, 1}},
          ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lpColor], Frame → False],
         FrameTicks → {{LinTicks[-1, 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]];
```

```
transp = Show[
   BoxWhiskerChart[randDotCorrValsLPtoV2m, {{"Whiskers", Directive[Transparent, Thick]},
      {"Fences", Directive[Transparent, Thick]},
      {"MedianMarker", Directive[Transparent, Thickness[0.009]]}},
    PlotRange → {All, {-1, 1}}, ChartStyle → Transparent, Frame → False],
   DistributionChart[randDotCorrValsLPtoV2m, PlotRange → {All, {-1, 1}}, ChartStyle →
      Directive[EdgeForm[Transparent], Opacity[0.2], Transparent], Frame → False],
   FrameTicks → {{LinTicks[-1, 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[ ]=