

```

ln[ ]:= ccColor = RGBColor["#ff1f5b"];

ln[ ]:= ctColor = Blue;

(*****)

dateMouseSessionListV1CC = {{ "051623", "Mouse23112", "Session1"},
    { "051723", "Mouse23112", "Session1"}, { "051623", "Mouse23166", "Session1"},
    { "051723", "Mouse23166", "Session1"}, { "043023", "Mouse23184", "Session1"},
    { "050123", "Mouse23184", "Session1"}, { "050423", "Mouse23184", "Session1"},
    { "052523", "Mouse23158", "Session1"}, { "052923", "Mouse23158", "Session1"};

dateMouseSessionListV1CT = {{ "041823", "Mouse21531", "Session1"},
    { "041923", "Mouse21531", "Session1"}, { "041823", "Mouse23138", "Session1"},
    { "041923", "Mouse23138", "Session1"}, { "042023", "Mouse23138", "Session1"},
    { "050523", "Mouse23195", "Session1"}, { "051723", "Mouse21532", "Session1"},
    { "051823", "Mouse21532", "Session1"}, { "052523", "Mouse23195", "Session1"};

(*****
(*****Generate plots in Figure S4I*****
(*****

ln[ ]:= meanDFFwhiskCCV1CC = ToExpression /@
    Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CC/
        ValuesForPlotting/meanDFFwhiskCrossCorr_V1CC.txt", "List"];

ln[ ]:= semDFFwhiskCCV1CC = ToExpression /@
    Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CC/
        ValuesForPlotting/semDFFwhiskCrossCorr_V1CC.txt", "List"];

ln[ ]:= (*****

ln[ ]:= meanDFFwhiskCCV1CT = ToExpression /@
    Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CT/
        ValuesForPlotting/meanDFFwhiskCrossCorr_V1CT.txt", "List"];

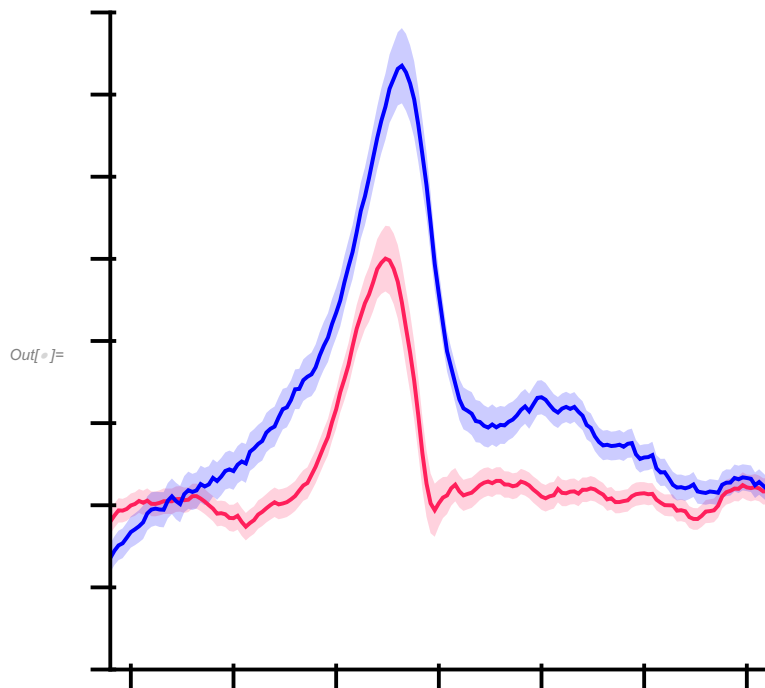
ln[ ]:= semDFFwhiskCCV1CT = ToExpression /@
    Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CT/
        ValuesForPlotting/semDFFwhiskCrossCorr_V1CT.txt", "List"];

```

```

In[ ]:= ListLinePlot[{Part[#, 2] & /@meanDFFwhiskCCV1CC,
  Part[#, 2] & /@meanDFFwhiskCCV1CC + (Part[#, 2] & /@semDFFwhiskCCV1CC),
  Part[#, 2] & /@meanDFFwhiskCCV1CC - (Part[#, 2] & /@semDFFwhiskCCV1CC),
  Part[#, 2] & /@meanDFFwhiskCCV1CT,
  Part[#, 2] & /@meanDFFwhiskCCV1CT + (Part[#, 2] & /@semDFFwhiskCCV1CT),
  Part[#, 2] & /@meanDFFwhiskCCV1CT - (Part[#, 2] & /@semDFFwhiskCCV1CT)},
  Filling -> {1 -> {{2}, Directive[Opacity[0.2], ccColor]}},
  1 -> {{3}, Directive[Opacity[0.2], ccColor]}}, 4 ->
  {{5}, Directive[Opacity[0.2], ctColor]}}, 4 -> {{6}, Directive[Opacity[0.2], ctColor]}},
  PlotStyle -> {{ccColor, Thickness[0.006]}, Transparent, Transparent,
  {ctColor, Thickness[0.006]}, Transparent, Transparent},
  DataRange -> {-8, 8}, PlotRange -> {{-8, 8}, {-0.02, 0.06}}, FrameTicks ->
  {{LinTicks[-0.02, 0.06, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
  {LinTicks[-8, 8, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}},
  Axes -> False, TicksStyle -> Thick, FrameStyle -> Thick,
  Frame -> {{True, None}, {True, None}}, AspectRatio -> 1,
  FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0]]

```



```

(*****
(*****Generate plots in Figure S4J*****
(*****)

```

```

In[ ]:= meanDFFwhiskOnV1CC = ToExpression /@
  Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CC/
  ValuesForPlotting/meanDFFzTraceWhiskOnset_V1CC.txt", "List"];

```

```

In[ ]:= semDFFwhiskOnV1CC = ToExpression /@
  Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CC/
  ValuesForPlotting/semDFFzTraceWhiskOnset_V1CC.txt", "List"];

```

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

```
In[ ]:= meanDFFwhiskOnV1CT = ToExpression /@
```

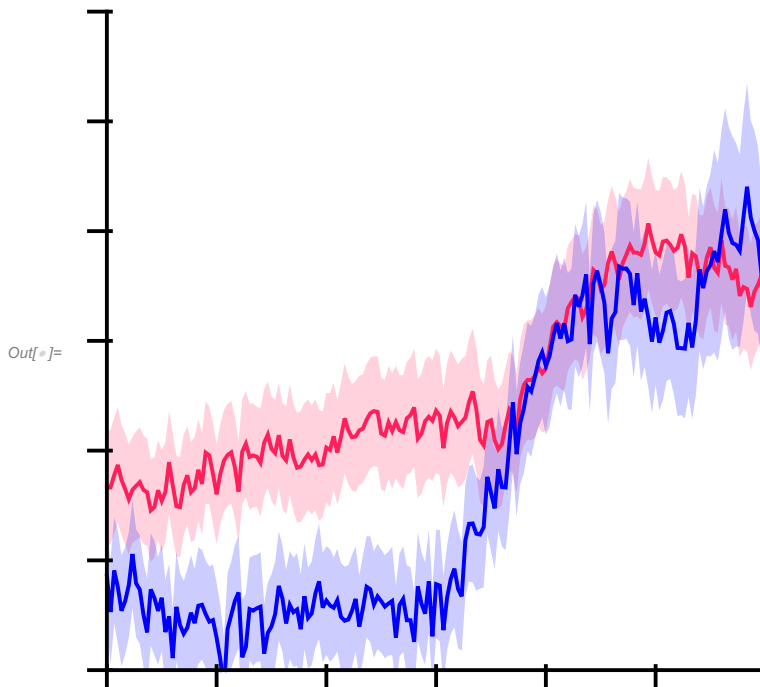
```
Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CT/
ValuesForPlotting/meanDFFzTraceWhiskOnset_V1CT.txt", "List"];
```

```
In[ ]:= semDFFwhiskOnV1CT = ToExpression /@
```

```
Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CT/
ValuesForPlotting/semDFFzTraceWhiskOnset_V1CT.txt", "List"];
```

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

```
ListLinePlot[{Part[#, 2] & /@ meanDFFwhiskOnV1CC,
  Part[#, 2] & /@ meanDFFwhiskOnV1CC + (Part[#, 2] & /@ semDFFwhiskOnV1CC),
  Part[#, 2] & /@ meanDFFwhiskOnV1CC - (Part[#, 2] & /@ semDFFwhiskOnV1CC),
  Part[#, 2] & /@ meanDFFwhiskOnV1CT,
  Part[#, 2] & /@ meanDFFwhiskOnV1CT + (Part[#, 2] & /@ semDFFwhiskOnV1CT),
  Part[#, 2] & /@ meanDFFwhiskOnV1CT - (Part[#, 2] & /@ semDFFwhiskOnV1CT)},
  Filling -> {1 -> {{2}, Directive[Opacity[0.2], ccColor]}},
  1 -> {{3}, Directive[Opacity[0.2], ccColor]}, 4 ->
  {{5}, Directive[Opacity[0.2], ctColor]}, 4 -> {{6}, Directive[Opacity[0.2], ctColor]}},
  PlotStyle -> {{ccColor, Thickness[0.006]}, Transparent, Transparent,
  {ctColor, Thickness[0.006]}, Transparent, Transparent},
  DataRange -> {-3, 3}, PlotRange -> {{-3, 3}, {-0.2, 1}}, FrameTicks ->
  {{LinTicks[-0.2, 1, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
  {LinTicks[-3, 3, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}},
  Axes -> False, TicksStyle -> Thick, FrameStyle -> Thick,
  Frame -> {{True, None}, {True, None}}, AspectRatio -> 1,
  FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0]]
```



```

(*****
*****Generate plots in Figure S4K*****
*****)

In[ ]:= peakCCValsV1CC = ToExpression /@
  Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CC/
    ValuesForPlotting/peakDFFwhiskCC_V1CC.txt", "List"];

In[ ]:= peakCCValsV1CT = ToExpression /@
  Import["C:/Users/garrett/Desktop/PopulationAnalyses/Observational/Dendrites/V1CT/
    ValuesForPlotting/peakDFFwhiskCC_V1CT.txt", "List"];

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

ccAxonCharts =
  Show[BoxWhiskerChart[peakCCValsV1CC, {"Whiskers", Directive[Darker@ccColor, Thick]},
    {"Fences", Directive[Darker@ccColor, Thick]}, {"MedianMarker",
      Directive[Darker@ccColor, Thickness[0.009]]}], PlotRange → {All, {-0.04, 0.3}},
    ChartStyle → Directive[ccColor, Opacity[0.3]], Frame → False],
  DistributionChart[peakCCValsV1CC, PlotRange → {All, {-0.04, 0.3}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], ccColor], Frame → False],
  FrameTicks → {{LinTicks[-0.04, 0.3, 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]];

ctAxonCharts =
  Show[BoxWhiskerChart[peakCCValsV1CT, {"Whiskers", Directive[Darker@ctColor, Thick]},
    {"Fences", Directive[Darker@ctColor, Thick]}, {"MedianMarker",
      Directive[Darker@ctColor, Thickness[0.009]]}], PlotRange → {All, {-0.04, 0.3}},
    ChartStyle → Directive[ctColor, Opacity[0.3]], Frame → False],
  DistributionChart[peakCCValsV1CT, PlotRange → {All, {-0.04, 0.3}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], ctColor], Frame → False],
  FrameTicks → {{LinTicks[-0.04, 0.3, 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[peakCCValsV1CT, {"Whiskers", Directive[Transparent, Thick]},
    {"Fences", Directive[Transparent, Thick]},
    {"MedianMarker", Directive[Transparent, Thickness[0.009]]}],
    PlotRange → {All, {-0.04, 0.3}}, ChartStyle → Transparent, Frame → False],
  DistributionChart[peakCCValsV1CT, PlotRange → {All, {-0.04, 0.3}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], Transparent],
    Frame → False], FrameTicks →
    {{LinTicks[-0.04, 0.3, 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[{ccAxonCharts, ctAxonCharts, transp}, Spacings → {-280, -280, -320}]]
```

Out[]:=

