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ln[ ]:= (**Note: Values for generating these plots are embedded within the raw data set,
        which is too large to upload onto the public data repository**)

ln[ ]:= controlColor = Black;

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

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

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

ln[ ]:= dateMouseListControl =
    {{{"011622", "Mouse22550"}, {"011822", "Mouse22550"}, {"012322", "Mouse22549"},
      {"012622", "Mouse22549"}, {"021022", "Mouse22549"}, {"010522", "Mouse22599"},
      {"021022", "Mouse22599"}, {"021422", "Mouse22599"}, {"033122", "Mouse22544"},
      {"040122", "Mouse22562"}, {"040322", "Mouse22544"}, {"040322", "Mouse22562"}}};

ln[ ]:= dateMouseListV1axons = {{{"112221", "Mouse22485"}, {"112321", "Mouse22485"},
    {"120321", "Mouse22485"}, {"120821", "Mouse22517"}, {"121321", "Mouse22485"},
    {"010122", "Mouse22547"}, {"011222", "Mouse22501"}, {"011622", "Mouse22504"},
    {"011822", "Mouse22504"}, {"012322", "Mouse22575"}, {"012722", "Mouse22575"},
    {"013122", "Mouse22504"}, {"021022", "Mouse22504"}, {"021222", "Mouse22575"},
    {"032222", "Mouse22506"}, {"032622", "Mouse22506"}, {"040422", "Mouse22506"}}};

ln[ ]:= dateMouseListLPaxons =
    {{{"020122", "Mouse22413"}, {"020922", "Mouse22413"}, {"021422", "Mouse22413"},
      {"012622", "Mouse22514"}, {"012822", "Mouse22514"}, {"020122", "Mouse22514"},
      {"021122", "Mouse22519"}, {"021122", "Mouse22535"}, {"021522", "Mouse22535"},
      {"021722", "Mouse22519"}, {"030122", "Mouse22513"}, {"030222", "Mouse22521"},
      {"030722", "Mouse22513"}, {"030822", "Mouse22521"}, {"030822", "Mouse22519"},
      {"031522", "Mouse22513"}, {"031522", "Mouse22521"}, {"031922", "Mouse22521"},
      {"032022", "Mouse22519"}, {"032222", "Mouse22513"}, {"040622", "Mouse22513"}}};

ln[ ]:= dateMouseListLMaxons = {{{"022022", "Mouse22563"},
    {"022222", "Mouse22563"}, {"031722", "Mouse22539"}, {"031722", "Mouse22570"},
    {"032022", "Mouse22539"}, {"032022", "Mouse22570"}, {"032322", "Mouse22539"},
    {"032522", "Mouse22539"}, {"041022", "Mouse22407"}, {"041522", "Mouse22407"}}};

ln[ ]:= (*****

    (*****
    (*****Generate plots in Figure 5E*****
    (*****

ln[ ]:= pairedROIsControl =
    Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
      dateMouseListControl[[n, 1]], "/", dateMouseListControl[[n, 2]],
      "/PairedAnalysis/", dateMouseListControl[[n, 1]], "_", dateMouseListControl[[n, 2]],
      "_pairedROIs.txt"], "List"], {n, 1, Length[dateMouseListControl]};

ln[ ]:= pairedROIsV1axons =
    Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
      dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]],
      "/PairedAnalysis/", dateMouseListV1axons[[n, 1]], "_", dateMouseListV1axons[[n, 2]],
      "_pairedROIs.txt"], "List"], {n, 1, Length[dateMouseListV1axons]};

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In[ ]:= pairedROIsLPaxons =
  Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListLPaxons[[n, 1]], "/", dateMouseListLPaxons[[n, 2]],
    "/PairedAnalysis/", dateMouseListLPaxons[[n, 1]], "_", dateMouseListLPaxons[[n, 2]],
    "_pairedROIs.txt"], "List"], {n, 1, Length[dateMouseListLPaxons]};

In[ ]:= pairedROIsLMaxons =
  Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListLMaxons[[n, 1]], "/", dateMouseListLMaxons[[n, 2]],
    "/PairedAnalysis/", dateMouseListLMaxons[[n, 1]], "_", dateMouseListLMaxons[[n, 2]],
    "_pairedROIs.txt"], "List"], {n, 1, Length[dateMouseListLMaxons]};

In[ ]:= (**Import CRFs for all paired ROIs to compute global response averages**)

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

In[ ]:= allResponsesBeforeControl = Flatten[Table[
  Mean /@ Table[(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListControl[[n, 1]], "/", dateMouseListControl[[n, 2]], "/Session1",
    "/VisStimResults/", dateMouseListControl[[n, 1]], "_", dateMouseListControl[[
    n, 2]], "_Session1", "_", "crf_ROI", ToString[roi], ".txt"], "List"])[[All,
    2]], {roi, pairedROIsControl[[n]]}], {n, 1, Length[dateMouseListControl]};

In[ ]:= allResponsesAfterControl = Flatten[Table[
  Mean /@ Table[(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListControl[[n, 1]], "/", dateMouseListControl[[n, 2]], "/Session2",
    "/VisStimResults/", dateMouseListControl[[n, 1]], "_", dateMouseListControl[[
    n, 2]], "_Session2", "_", "crf_ROI", ToString[roi], ".txt"], "List")][[All,
    2]], {roi, pairedROIsControl[[n]]}], {n, 1, Length[dateMouseListControl]};

In[ ]:= pairedRespControl =
  Partition[Riffle[allResponsesBeforeControl, allResponsesAfterControl], 2];

In[ ]:= maxValControl = 4;

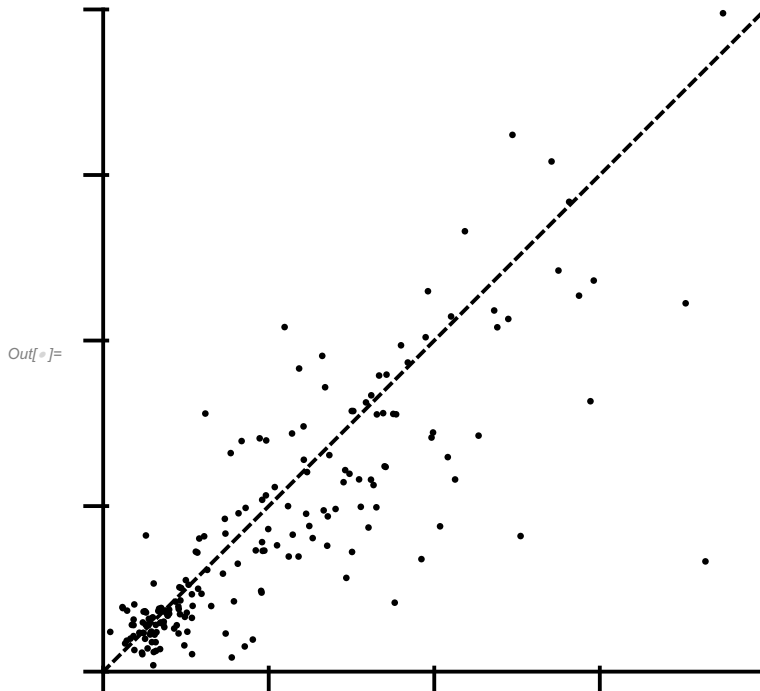
In[ ]:= minValControl = 0;

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In[ ]:= Show[ListPlot[pairedRespControl,
  PlotRange -> {{minValControl, maxValControl}, {minValControl, maxValControl}},
  AspectRatio -> 1, FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
  PlotStyle -> {controlColor, PointSize[0.01]},
  FrameTicks -> {{LinTicks[minValControl, maxValControl, MajorTickLength -> {0, .03},
    MinorTickLength -> {0, 0}], None}, {LinTicks[minValControl, maxValControl,
    MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}}, Axes -> False,
  TicksStyle -> Thick, FrameStyle -> Thick, Frame -> {{True, None}, {True, None}},
  Plot[x, {x, minValControl, maxValControl}, PlotStyle -> {Black, Thick, Dashed}]

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In[ ]:= diffsControl = Table[(pairedRespControl[[n, 2]] - pairedRespControl[[n, 1]]),
  {n, 1, Length[pairedRespControl]}];

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

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In[ ]:= allResponsesBeforeV1axons = Flatten[Table[
  Mean /@ Table[(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]], "/Session1",
    "/VisStimResults/", dateMouseListV1axons[[n, 1]], "_", dateMouseListV1axons[[
    n, 2]], "_Session1", "_", "crf_ROI", ToString[roi], ".txt"], "List"])[[All,
    2]], {roi, pairedROIsV1axons[[n]]}], {n, 1, Length[dateMouseListV1axons]}]];

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In[ ]:= allResponsesAfterV1axons = Flatten[Table[
  Mean /@ Table[(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]], "/Session2",
    "/VisStimResults/", dateMouseListV1axons[[n, 1]], "_", dateMouseListV1axons[[
    n, 2]], "_Session2", "_", "crf_ROI", ToString[roi], ".txt"], "List")][[All,
    2]], {roi, pairedROIsV1axons[[n]]}], {n, 1, Length[dateMouseListV1axons]}]];

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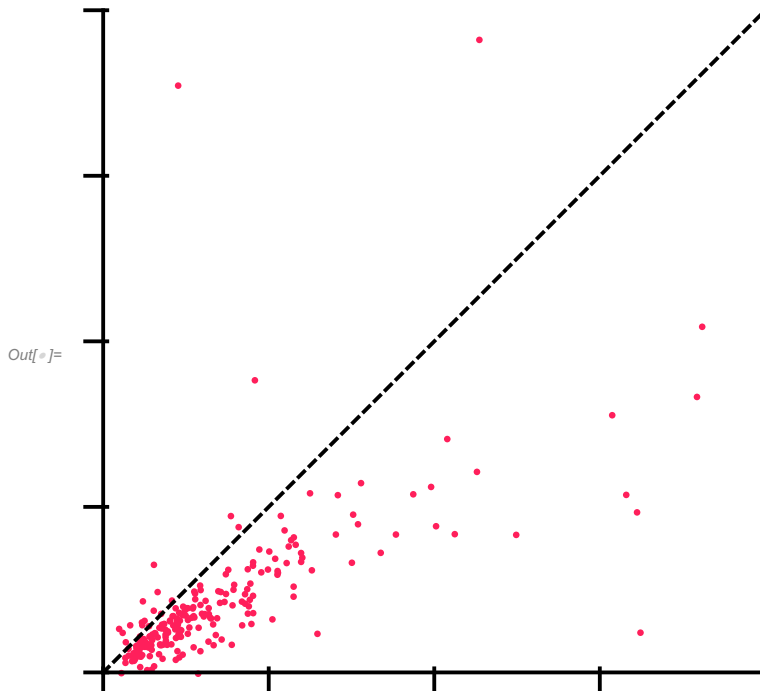
In[ ]:= pairedRespV1axons =
  Partition[Riffle[allResponsesBeforeV1axons, allResponsesAfterV1axons], 2];

In[ ]:= maxValV1axons = 4;

In[ ]:= minValV1axons = 0;

In[ ]:= Show[ListPlot[pairedRespV1axons,
  PlotRange -> {{minValV1axons, maxValV1axons}, {minValV1axons, maxValV1axons}},
  AspectRatio -> 1, FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
  PlotStyle -> {v1Color, PointSize[0.01]},
  FrameTicks -> {{LinTicks[minValV1axons, maxValV1axons, MajorTickLength -> {0, .03},
    MinorTickLength -> {0, 0}], None}, {LinTicks[minValV1axons, maxValV1axons,
    MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}}, Axes -> False,
  TicksStyle -> Thick, FrameStyle -> Thick, Frame -> {{True, None}, {True, None}},
  Plot[x, {x, minValV1axons, maxValV1axons}, PlotStyle -> {Black, Thick, Dashed}]]

```



```

In[ ]:= diffsV1axons = Table[(pairedRespV1axons[[n, 2]] - pairedRespV1axons[[n, 1]]),
  {n, 1, Length[pairedRespV1axons]}];

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

In[ ]:= allResponsesBeforeLPaxons = Flatten[Table[
  Mean /@ Table[(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListLPaxons[[n, 1]], "/", dateMouseListLPaxons[[n, 2]], "/Session1",
    "/VisStimResults/", dateMouseListLPaxons[[n, 1]], "_", dateMouseListLPaxons[[
      n, 2]], "_Session1", "_", "crf_ROI", ToString[roi], ".txt"], "List"])[[All,
    2]], {roi, pairedROIsLPaxons[[n]]}], {n, 1, Length[dateMouseListLPaxons]}]];

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In[ ]:= allResponsesAfterLPaxons = Flatten[Table[
  Mean /@ Table[ (ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListLPaxons[[n, 1]], "/", dateMouseListLPaxons[[n, 2]], "/Session2",
    "/VisStimResults/", dateMouseListLPaxons[[n, 1]], "_", dateMouseListLPaxons[[
      n, 2]], "_Session2", "_", "crf_ROI", ToString[roi], ".txt"], "List"])[[All,
      2]], {roi, pairedROIIsLPaxons[[n]]}], {n, 1, Length[dateMouseListLPaxons]}]];

In[ ]:= pairedResplPaxons =
  Partition[Riffle[allResponsesBeforeLPaxons, allResponsesAfterLPaxons], 2];

In[ ]:= maxValLPaxons = 4;

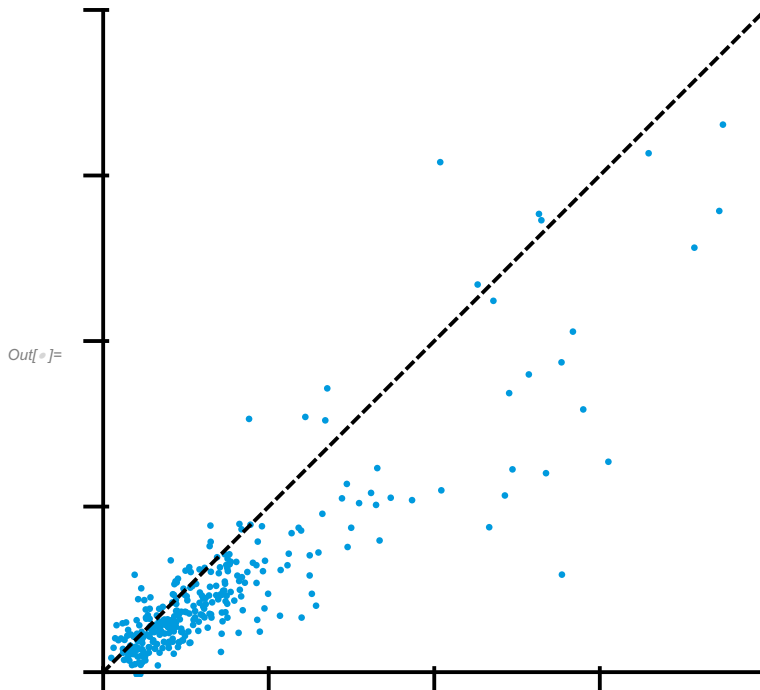
In[ ]:= minValLPaxons = 0;

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In[ ]:= Show[ListPlot[pairedResplPaxons,
  PlotRange -> {{minValLPaxons, maxValLPaxons}, {minValLPaxons, maxValLPaxons}},
  AspectRatio -> 1, FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
  PlotStyle -> {lpColor, PointSize[0.01]},
  FrameTicks -> {{LinTicks[minValLPaxons, maxValLPaxons, MajorTickLength -> {0, .03},
    MinorTickLength -> {0, 0}], None}, {LinTicks[minValLPaxons, maxValLPaxons,
    MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}}, Axes -> False,
  TicksStyle -> Thick, FrameStyle -> Thick, Frame -> {{True, None}, {True, None}},
  Plot[x, {x, minValLPaxons, maxValLPaxons}, PlotStyle -> {Black, Thick, Dashed}]]

```



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In[ ]:= diffsLPaxons = Table[ (pairedResplPaxons[[n, 2]] - pairedResplPaxons[[n, 1]]),
  {n, 1, Length[pairedResplPaxons]}];

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

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```

In[ ]:= allResponsesBeforeLMaxons = Flatten[Table[
  Mean /@ Table[(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListLMaxons[[n, 1]], "/", dateMouseListLMaxons[[n, 2]], "/Session1",
    "/VisStimResults/", dateMouseListLMaxons[[n, 1]], "_", dateMouseListLMaxons[[
      n, 2]], "_Session1", "_", "crf_ROI", ToString[roi], ".txt"], "List")][[All,
      2]], {roi, pairedROIIsLMaxons[[n]]}], {n, 1, Length[dateMouseListLMaxons]}]];

In[ ]:= allResponsesAfterLMaxons = Flatten[Table[
  Mean /@ Table[(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
    dateMouseListLMaxons[[n, 1]], "/", dateMouseListLMaxons[[n, 2]], "/Session2",
    "/VisStimResults/", dateMouseListLMaxons[[n, 1]], "_", dateMouseListLMaxons[[
      n, 2]], "_Session2", "_", "crf_ROI", ToString[roi], ".txt"], "List")][[All,
      2]], {roi, pairedROIIsLMaxons[[n]]}], {n, 1, Length[dateMouseListLMaxons]}]];

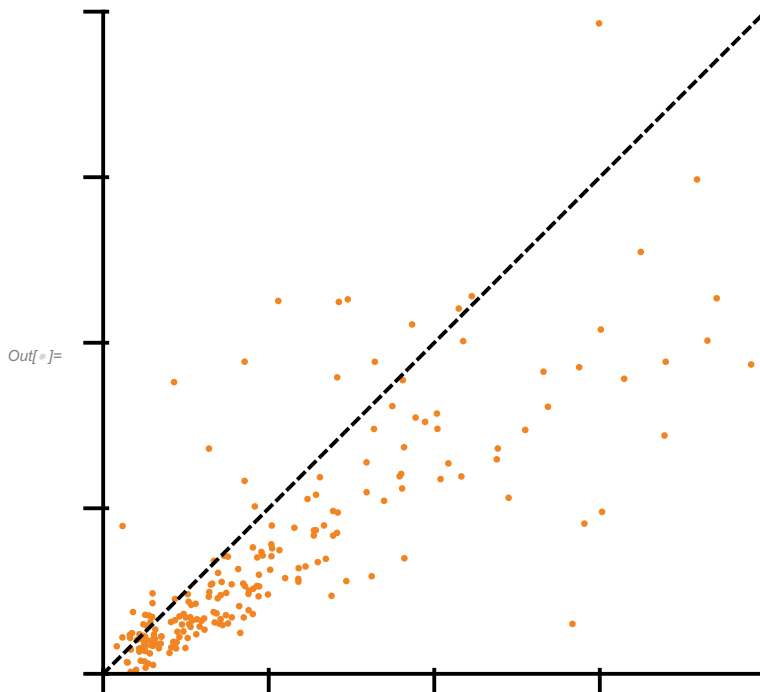
In[ ]:= pairedResplMaxons =
  Partition[Riffle[allResponsesBeforeLMaxons, allResponsesAfterLMaxons], 2];

In[ ]:= maxVallMaxons = 4;

In[ ]:= minVallMaxons = 0;

In[ ]:= Show[ListPlot[pairedResplMaxons,
  PlotRange -> {{minVallMaxons, maxVallMaxons}, {minVallMaxons, maxVallMaxons}},
  AspectRatio -> 1, FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
  PlotStyle -> {lmColor, PointSize[0.01]},
  FrameTicks -> {{LinTicks[minVallMaxons, maxVallMaxons, MajorTickLength -> {0, .03},
    MinorTickLength -> {0, 0}], None}, {LinTicks[minVallMaxons, maxVallMaxons,
    MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}}, Axes -> False,
  TicksStyle -> Thick, FrameStyle -> Thick, Frame -> {{True, None}, {True, None}},
  Plot[x, {x, minVallMaxons, maxVallMaxons}, PlotStyle -> {Black, Thick, Dashed}]]

```



```
In[ ]:= diffslMaxons = Table[(pairedResplMaxons[[n, 2]] - pairedResplMaxons[[n, 1]]),
  {n, 1, Length[pairedResplMaxons]}];
```

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

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

```
In[ ]:= bin = 2 * InterquartileRange[diffsControl] * (Length[diffsControl] ^ (-1/3))
```

```
Out[ ]:= 0.134024
```

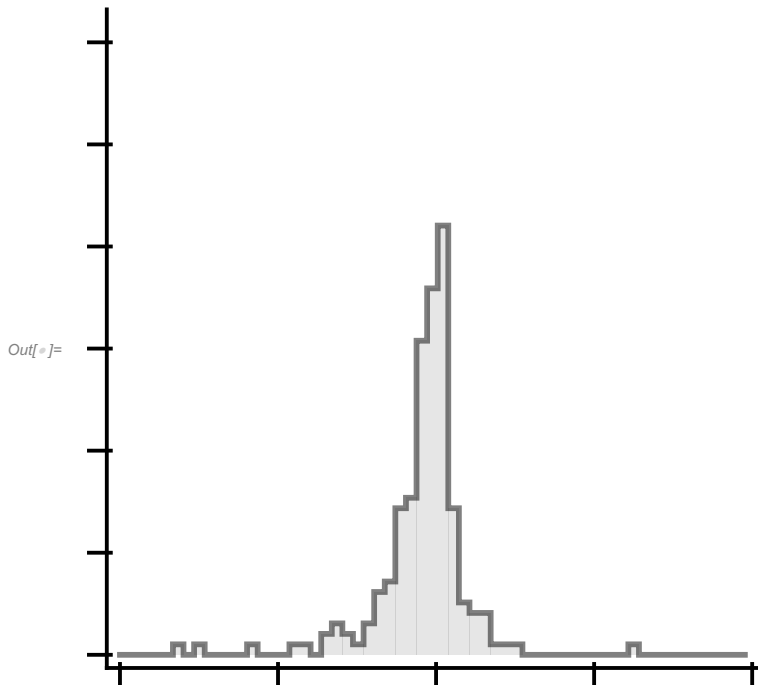
```
In[ ]:= hfn = ($MachineEpsilon + #2) / Total[#2] &;
```

```
In[ ]:= h = Histogram[{diffsControl}, {-4, 4, bin}, hfn,
  ChartStyle -> (Directive[#, AbsoluteThickness[3]] & /@ {controlColor}),
  PerformanceGoal -> "Speed", PlotRange -> {{-4, 4}, {0, 0.3}}];
```

```
In[ ]:= h2 = Histogram[{diffsControl}, {-4, 4, bin}, hfn,
  ChartStyle -> {{controlColor}, Directive[Opacity[0.1], EdgeForm[]]},
  PlotRange -> {{-4, 4}, {0, 0.3}}];
```

```
In[ ]:= hline = h /. rec : {({_Rectangle} | {})} .. =>
  Line[Flatten[rec, 2] /. _[{x_, y_}, {X_, Y_}, ___] => Sequence[{x, Y}, {X, Y}]];
```

```
In[ ]:= histModIndexControl = Show[hline, h2, PlotRange -> {{-4, 4}, {0, 0.3}}, FrameTicks ->
  {{LinTicks[0, 0.3, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
  {LinTicks[-4, 4, 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]]
```



```
In[ ]:= bin = 2 * InterquartileRange[diffsV1axons] * (Length[diffsV1axons] ^ (-1/3));
```

```
In[ ]:= hfn = ($MachineEpsilon + #2) / Total[#2] &;
```

```

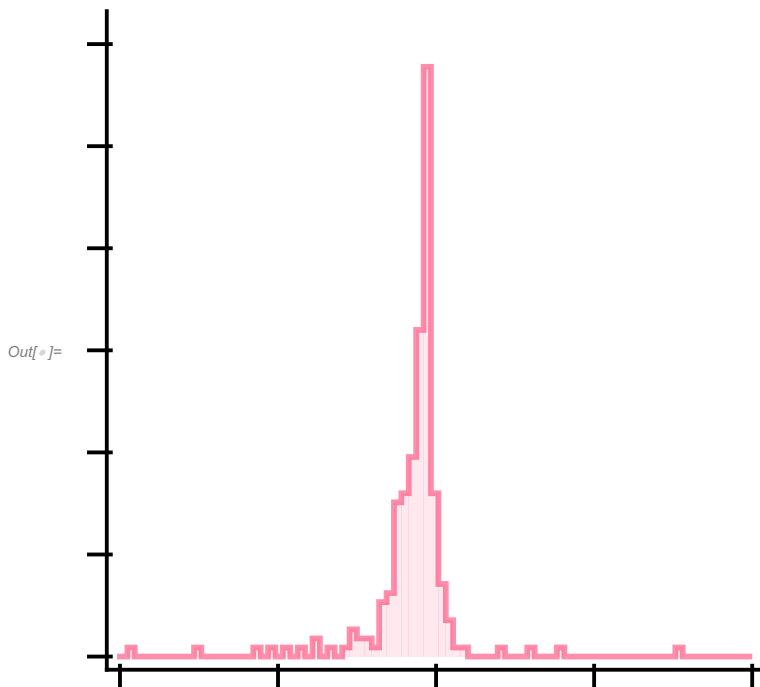
In[ ]:= h = Histogram[{diffsV1axons}, {-4, 4, bin}, hfn,
  ChartStyle → (Directive[#, AbsoluteThickness[3]] & /@ {v1Color}),
  PerformanceGoal → "Speed", PlotRange → {{-4, 4}, {0, 0.3}}];

In[ ]:= h2 = Histogram[{diffsV1axons}, {-4, 4, bin}, hfn, ChartStyle →
  {{v1Color}, Directive[Opacity[0.1], EdgeForm[]]}, PlotRange → {{-4, 4}, {0, 0.3}}];

In[ ]:= hline = h /. rec : {({_Rectangle}) | {}} ..} =>
  Line[Flatten[rec, 2] /. _[{x_, y_}, {X_, Y_}, ___] => Sequence[{x, Y}, {X, Y}]];

In[ ]:= histModIndexV1axons = Show[hline, h2, PlotRange → {{-4, 4}, {0, 0.3}}, FrameTicks →
  {{LinTicks[0, 0.3, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
  {LinTicks[-4, 4, 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]]

```



```

In[ ]:= bin = 2 * InterquartileRange[diffsLPaxons] * (Length[diffsLPaxons] ^ (-1/3));

In[ ]:= hfn = ($MachineEpsilon + #2) / Total[#2] &;

In[ ]:= h = Histogram[{diffsLPaxons}, {-4, 4, bin}, hfn,
  ChartStyle → (Directive[#, AbsoluteThickness[3]] & /@ {lpColor}),
  PerformanceGoal → "Speed", PlotRange → {{-4, 4}, {0, 0.3}}];

In[ ]:= h2 = Histogram[{diffsLPaxons}, {-4, 4, bin}, hfn, ChartStyle →
  {{lpColor}, Directive[Opacity[0.1], EdgeForm[]]}, PlotRange → {{-4, 4}, {0, 0.3}}];

In[ ]:= hline = h /. rec : {({_Rectangle}) | {}} ..} =>
  Line[Flatten[rec, 2] /. _[{x_, y_}, {X_, Y_}, ___] => Sequence[{x, Y}, {X, Y}]];

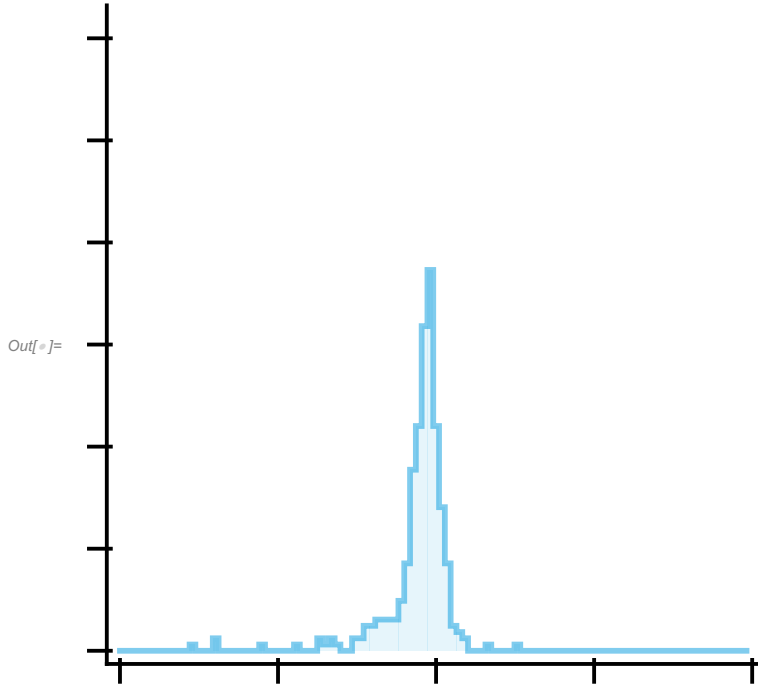
```



```

In[ ]:= histModIndexLPaxons = Show[hline, h2, PlotRange → {{-4, 4}, {0, 0.3}}, FrameTicks →
  {{LinTicks[0, 0.3, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
  {LinTicks[-4, 4, 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]]

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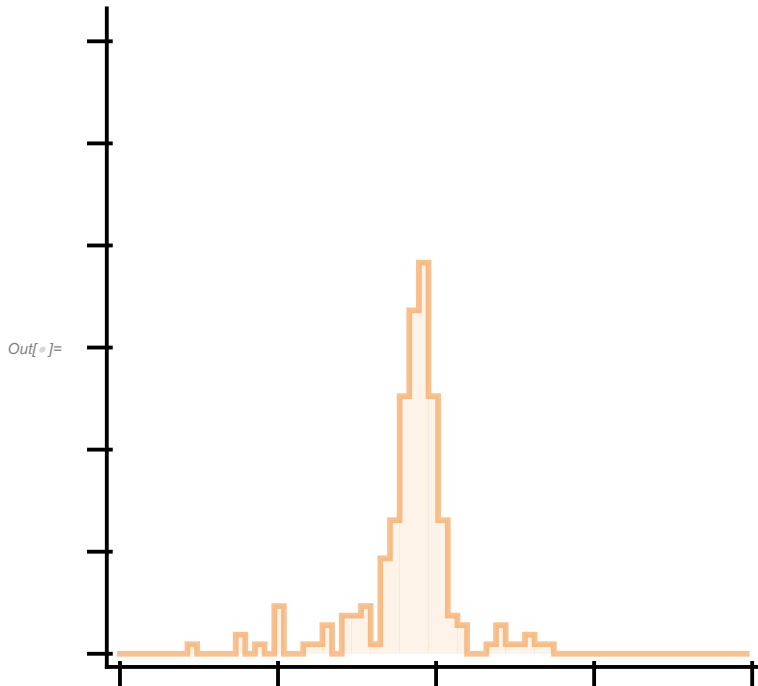
In[ ]:= bin = 2 * InterquartileRange[diffsLMaxons] * (Length[diffsLMaxons] ^ (-1/3));
In[ ]:= hfn = ($MachineEpsilon + #2) / Total[#2] &;
In[ ]:= h = Histogram[{diffsLMaxons}, {-4, 4, bin}, hfn,
  ChartStyle → (Directive[#, AbsoluteThickness[3]] & /@ {lmColor}),
  PerformanceGoal → "Speed", PlotRange → {{-4, 4}, {0, 0.3}}];
In[ ]:= h2 = Histogram[{diffsLMaxons}, {-4, 4, bin}, hfn, ChartStyle →
  {{lmColor}, Directive[Opacity[0.1], EdgeForm[]]}, PlotRange → {{-4, 4}, {0, 0.3}}];
In[ ]:= hline = h /. rec : {({_Rectangle}) | {}} ..} =>
  Line[Flatten[rec, 2] /. _[{x_, y_}, {X_, Y_}, ___] => Sequence[{x, Y}, {X, Y}]];

```

```

In[ ]:= histModIndexLMaxons = Show[hline, h2, PlotRange -> {{-4, 4}, {0, 0.3}}, FrameTicks ->
  {{LinTicks[0, 0.3, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
  {LinTicks[-4, 4, 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]]

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In[ ]:= (*****

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(*****Generate plots in Figure 5F*****

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In[ ]:= controlCharts = Show[
  BoxWhiskerChart[diffsControl, {"Whiskers", Directive[Darker@controlColor, Thick]},
    {"Fences", Directive[Darker@controlColor, Thick]}, {"MedianMarker",
      Directive[Darker@controlColor, Thickness[0.009]]}], PlotRange -> {All, {-0.7, 0.7}},
  ChartStyle -> Directive[controlColor, Opacity[0.3]], Frame -> False,
  DistributionChart[diffsControl, PlotRange -> {All, {-0.7, 0.7}}, ChartStyle ->
    Directive[EdgeForm[Transparent], Opacity[0.2], controlColor], Frame -> False,
  FrameTicks -> {{LinTicks[-0.7, 0.7, 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[ ]:= v1AxonCharts =
  Show[BoxWhiskerChart[diffsV1axons, {"Whiskers", Directive[Darker@v1Color, Thick]},
    {"Fences", Directive[Darker@v1Color, Thick]},
    {"MedianMarker", Directive[Darker@v1Color, Thickness[0.009]]}],
    PlotRange → {All, {-0.7, 0.7}}, ChartStyle → Directive[v1Color, Opacity[0.3]],
    Frame → False], DistributionChart[diffsV1axons, PlotRange → {All, {-0.7, 0.7}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], v1Color], Frame → False],
    FrameTicks → {{LinTicks[-0.7, 0.7, 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[diffsLMaxons, {"Whiskers", Directive[Darker@lmColor, Thick]},
    {"Fences", Directive[Darker@lmColor, Thick]},
    {"MedianMarker", Directive[Darker@lmColor, Thickness[0.009]]}],
    PlotRange → {All, {-0.7, 0.7}}, ChartStyle → Directive[lmColor, Opacity[0.3]],
    Frame → False], DistributionChart[diffsLMaxons, PlotRange → {All, {-0.7, 0.7}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lmColor], Frame → False],
    FrameTicks → {{LinTicks[-0.7, 0.7, 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[diffsLPaxons, {"Whiskers", Directive[Darker@lpColor, Thick]},
    {"Fences", Directive[Darker@lpColor, Thick]},
    {"MedianMarker", Directive[Darker@lpColor, Thickness[0.009]]}],
    PlotRange → {All, {-0.7, 0.7}}, ChartStyle → Directive[lpColor, Opacity[0.3]],
    Frame → False], DistributionChart[diffsLPaxons, PlotRange → {All, {-0.7, 0.7}},
    ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lpColor], Frame → False],
    FrameTicks → {{LinTicks[-0.7, 0.7, 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[diffsControl, {"Whiskers", Directive[Transparent, Thick]},
    {"Fences", Directive[Transparent, Thick]},
    {"MedianMarker", Directive[Transparent, Thickness[0.009]]}],
    PlotRange → {All, {-0.7, 0.7}}, ChartStyle → Transparent, Frame → False],
    DistributionChart[diffsControl, PlotRange → {All, {-0.7, 0.7}}, ChartStyle →
      Directive[EdgeForm[Transparent], Opacity[0.2], Transparent], Frame → False],
    FrameTicks → {{LinTicks[-0.7, 0.7, 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[{controlCharts, v1AxonCharts, lmAxonCharts, lpAxonCharts, transp},  
  Spacings → {{-280, -280, -280, -280, -480}}]
```

Out[ ]:=

