

```

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

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

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

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

In[ ]:= controlColor = Black;

In[ ]:= dateMouseListControl = {{ "012122", "Mouse22550"}, {"012822", "Mouse22549"},
    {"121621", "Mouse22525"}, {"121721", "Mouse22599"}, {"011122", "Mouse22598"},
    {"032923", "Mouse23149"}, {"033023", "Mouse23128"}, {"033123", "Mouse23149"},
    {"070323", "Mouse23149"}, {"070423", "Mouse23128"}, {"070723", "Mouse23128"};}

In[ ]:= (***V1 axons, eOPN3***)

In[ ]:= dateMouseListV1axons =
    {"012722", "Mouse22504"}, {"121821", "Mouse22485"}, {"062723", "Mouse23154"},
    {"062723", "Mouse23182"}, {"063023", "Mouse23154"}, {"063023", "Mouse23182"};}

In[ ]:= (***LP axons, eOPN3***)

In[ ]:= dateMouseListLPaxons =
    {"050123", "Mouse23133"}, {"050123", "Mouse23142"}, {"050323", "Mouse23133"},
    {"050323", "Mouse23142"}, {"051823", "Mouse23198"}, {"052623", "Mouse23198"},
    {"052623", "Mouse23105"}, {"062923", "Mouse23139"}, {"070223", "Mouse23139"};}

In[ ]:= (***LM axons, eOPN3***)

In[ ]:= dateMouseListLMaxons =
    {"062623", "Mouse23152"}, {"062823", "Mouse23152"}, {"062923", "Mouse23190"},
    {"070123", "Mouse23190"}, {"070723", "Mouse23666"}, {"071223", "Mouse23666"};}

(*****)

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

In[ ]:= pairedROIsListV1axons =
    Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
        dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]],
        "/PairedAnalysis/", dateMouseListV1axons[[n, 1]], "_", dateMouseListV1axons[[n, 2]],
        "_pairedROIsPupil.txt"], "List"], {n, 1, Length[dateMouseListV1axons]}];

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

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

In[ ]:= (***Before-After paired loc mod indices***)

In[ ]:= pairedWhiskModIndexSummaryValsControl =
  ToExpression /@ Flatten[Table[Table[ToExpression /@ Import[StringJoin[
    "S:/Imaging/Garrett/FMB208_2PRig/", dateMouseListControl[[n, 1]], "/",
    dateMouseListControl[[n, 2]], "/", "/PairedAnalysis/", dateMouseListControl[[
    n, 1]], "_", dateMouseListControl[[n, 2]], "_", "whiskerModPaired_ROI",
    ToString[roi], ".txt"], "List"], {roi, pairedROIsListControl[[n]]}],
    {n, 1, Length[dateMouseListControl]}], 1][[All, 2]];

In[ ]:= pairedWhiskModIndexSummaryValsV1axons =
  ToExpression /@ Flatten[Table[Table[ToExpression /@ Import[StringJoin[
    "S:/Imaging/Garrett/FMB208_2PRig/", dateMouseListV1axons[[n, 1]], "/",
    dateMouseListV1axons[[n, 2]], "/", "/PairedAnalysis/", dateMouseListV1axons[[
    n, 1]], "_", dateMouseListV1axons[[n, 2]], "_", "whiskerModPaired_ROI",
    ToString[roi], ".txt"], "List"], {roi, pairedROIsListV1axons[[n]]}],
    {n, 1, Length[dateMouseListV1axons]}], 1][[All, 2]];

In[ ]:= pairedWhiskModIndexSummaryValsLPaxons =
  ToExpression /@ Flatten[Table[Table[ToExpression /@ Import[StringJoin[
    "S:/Imaging/Garrett/FMB208_2PRig/", dateMouseListLPaxons[[n, 1]], "/",
    dateMouseListLPaxons[[n, 2]], "/", "/PairedAnalysis/", dateMouseListLPaxons[[
    n, 1]], "_", dateMouseListLPaxons[[n, 2]], "_", "whiskerModPaired_ROI",
    ToString[roi], ".txt"], "List"], {roi, pairedROIsListLPaxons[[n]]}],
    {n, 1, Length[dateMouseListLPaxons]}], 1][[All, 2]];

In[ ]:= pairedWhiskModIndexSummaryValsLMaxons =
  ToExpression /@ Flatten[Table[Table[ToExpression /@ Import[StringJoin[
    "S:/Imaging/Garrett/FMB208_2PRig/", dateMouseListLMaxons[[n, 1]], "/",
    dateMouseListLMaxons[[n, 2]], "/", "/PairedAnalysis/", dateMouseListLMaxons[[
    n, 1]], "_", dateMouseListLMaxons[[n, 2]], "_", "whiskerModPaired_ROI",
    ToString[roi], ".txt"], "List"], {roi, pairedROIsListLMaxons[[n]]}],
    {n, 1, Length[dateMouseListLMaxons]}], 1][[All, 2]];

In[ ]:= (*****
  (*****
  (*****Generate plots in Figure S7G*****
  (*****

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

In[ ]:= diffsWhiskV1axons = Table[(pairedWhiskModIndexSummaryValsV1axons[[n, 2]] -
  pairedWhiskModIndexSummaryValsV1axons[[n, 1]]),
  {n, 1, Length[pairedWhiskModIndexSummaryValsV1axons]};

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

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

(*****)

In[ ]:= controlWhiskModPairsPlotPts =
    Partition[Riffle[{0.4, 0.6}, #], 2] & /@ pairedWhiskModIndexSummaryValsControl;

In[ ]:= allWhiskModsControlDark = pairedWhiskModIndexSummaryValsControl[[All, 1]];

In[ ]:= allWhiskModsControlLED = pairedWhiskModIndexSummaryValsControl[[All, 2]];

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

Out[ ]:= 0.0134082

In[ ]:= minVal = Min[Join[allWhiskModsControlDark, allWhiskModsControlLED]];

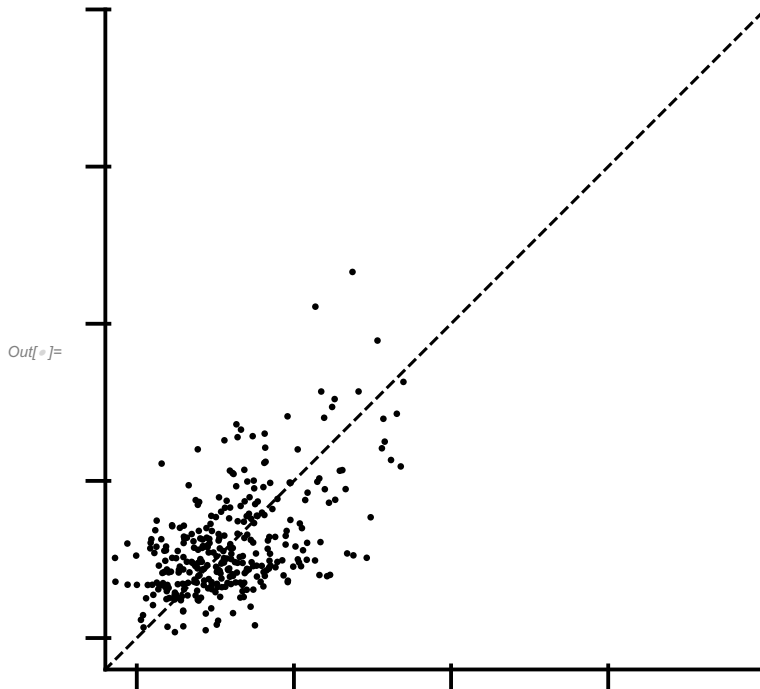
In[ ]:= maxVal = Max[Join[allWhiskModsControlDark, allWhiskModsControlLED]];

```

```

In[ ]:= Show[ListPlot[pairedWhiskModIndexSummaryValsControl,
  PlotRange -> {{-0.02, 0.4}, {-0.02, 0.4}}, AspectRatio -> 1,
  FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
  PlotStyle -> {controlColor, PointSize[0.01]}, FrameTicks ->
    {{LinTicks[-0.02, 0.4, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
    {LinTicks[-0.02, 0.4, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}},
  Axes -> False, TicksStyle -> Thick, FrameStyle -> Thick,
  Frame -> {{True, None}, {True, None}},
  Plot[x, {x, -0.02, 0.4}, PlotStyle -> {Black, Dashed}]]

```



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In[ ]:= (*****

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In[ ]:= v1AxonsWhiskModPairsPlotPts =
  Partition[Riffle[{0.4, 0.6}, #], 2] & /@ pairedWhiskModIndexSummaryValsV1axons;

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In[ ]:= allWhiskModsV1axonsDark = pairedWhiskModIndexSummaryValsV1axons[[All, 1]];

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```

In[ ]:= allWhiskModsV1axonsLED = pairedWhiskModIndexSummaryValsV1axons[[All, 2]];

```

```

In[ ]:= minVal = Min[Join[allWhiskModsV1axonsDark, allWhiskModsV1axonsLED]];

```

```

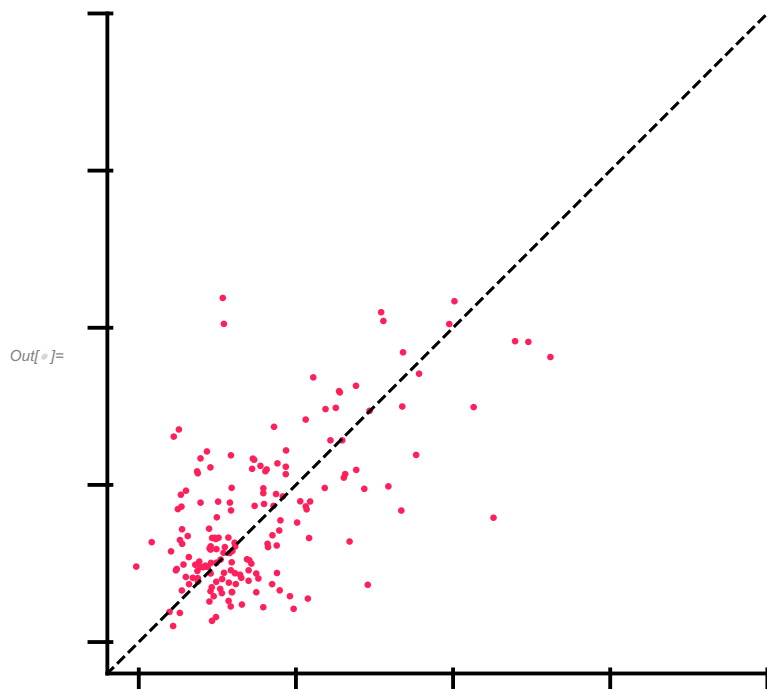
In[ ]:= maxVal = Max[Join[allWhiskModsV1axonsDark, allWhiskModsV1axonsLED]];

```

```

In[ ]:= Show[ListPlot[pairedWhiskModIndexSummaryValsVlaxons,
  PlotRange -> {{-0.02, 0.4}, {-0.02, 0.4}}, AspectRatio -> 1,
  FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
  PlotStyle -> {v1Color, PointSize[0.01]}, FrameTicks ->
    {{LinTicks[-0.02, 0.4, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
    {LinTicks[-0.02, 0.4, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}},
  Axes -> False, TicksStyle -> Thick, FrameStyle -> Thick,
  Frame -> {{True, None}, {True, None}}],
  Plot[x, {x, -0.02, 0.4}, PlotStyle -> {Black, Dashed}]]

```



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In[ ]:= (*****

```

```

In[ ]:= lpAxonsWhiskModPairsPlotPts =
  Partition[Riffle[{0.4, 0.6}, #], 2] & /@ pairedWhiskModIndexSummaryValsLPaxons;

```

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In[ ]:= allWhiskModsLPaxonsDark = pairedWhiskModIndexSummaryValsLPaxons[[All, 1]];

```

```

In[ ]:= allWhiskModsLPaxonsLED = pairedWhiskModIndexSummaryValsLPaxons[[All, 2]];

```

```

In[ ]:= minVal = Min[Join[allWhiskModsLPaxonsDark, allWhiskModsLPaxonsLED]];

```

```

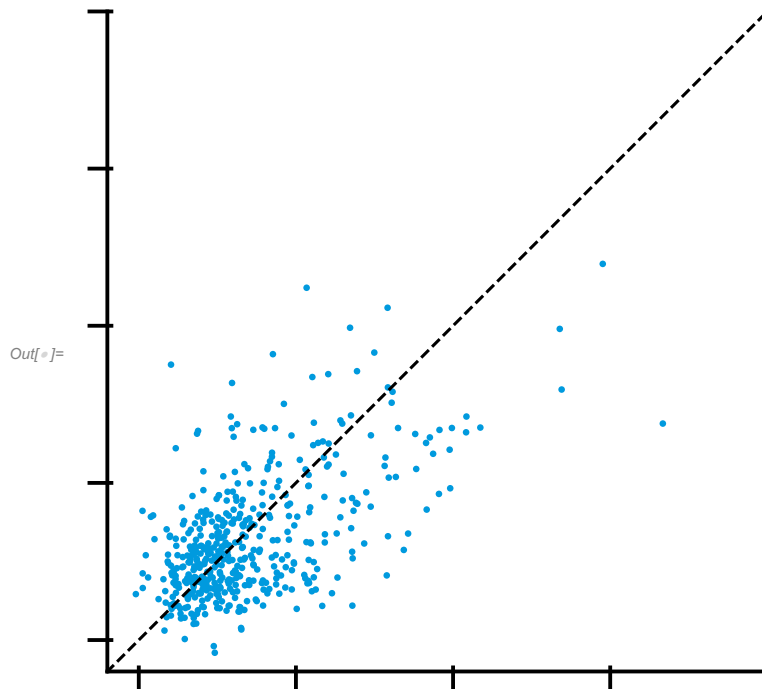
In[ ]:= maxVal = Max[Join[allWhiskModsLPaxonsDark, allWhiskModsLPaxonsLED]];

```

```

In[ ]:= Show[ListPlot[pairedWhiskModIndexSummaryValsLPaxons,
  PlotRange -> {{-0.02, 0.4}, {-0.02, 0.4}}, AspectRatio -> 1,
  FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
  PlotStyle -> {lpColor, PointSize[0.01]}, FrameTicks ->
    {{LinTicks[-0.02, 0.4, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
    {LinTicks[-0.02, 0.4, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}},
  Axes -> False, TicksStyle -> Thick, FrameStyle -> Thick,
  Frame -> {{True, None}, {True, None}},
  Plot[x, {x, -0.02, 0.4}, PlotStyle -> {Black, Dashed}]]

```



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In[ ]:= (*****

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In[ ]:= lmAxonsWhiskModPairsPlotPts =
  Partition[Riffle[{0.4, 0.6}, #], 2] & /@ pairedWhiskModIndexSummaryValsLMaxons;

```

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In[ ]:= allWhiskModsLMaxonsDark = pairedWhiskModIndexSummaryValsLMaxons[[All, 1]];

```

```

In[ ]:= allWhiskModsLMaxonsLED = pairedWhiskModIndexSummaryValsLMaxons[[All, 2]];

```

```

In[ ]:= minVal = Min[Join[allWhiskModsLMaxonsDark, allWhiskModsLMaxonsLED]];

```

```

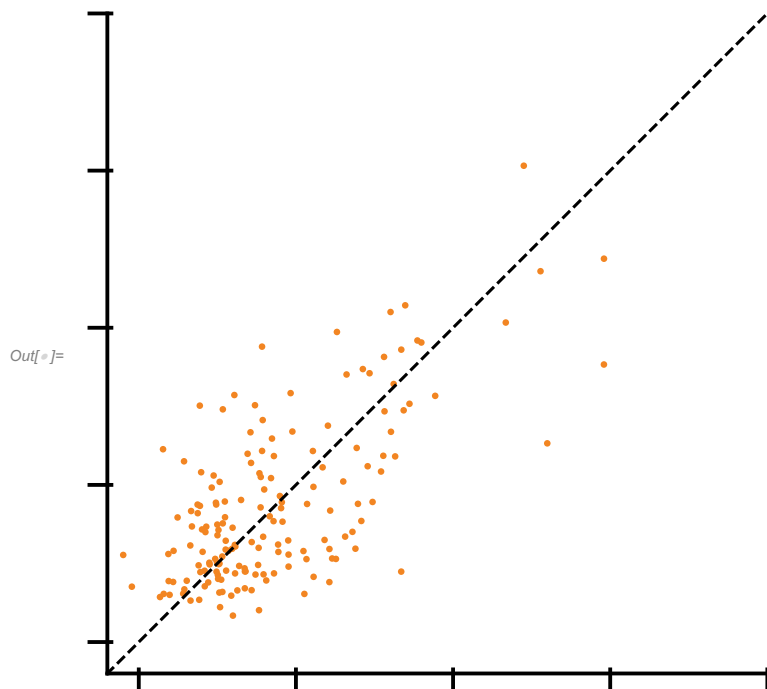
In[ ]:= maxVal = Max[Join[allWhiskModsLMaxonsDark, allWhiskModsLMaxonsLED]];

```

```

In[ ]:= Show[ListPlot[pairedWhiskModIndexSummaryValsLMaxons,
  PlotRange -> {{-0.02, 0.4}, {-0.02, 0.4}}, AspectRatio -> 1,
  FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
  PlotStyle -> {lmColor, PointSize[0.01]}, FrameTicks ->
    {{LinTicks[-0.02, 0.4, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
    {LinTicks[-0.02, 0.4, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None}},
  Axes -> False, TicksStyle -> Thick, FrameStyle -> Thick,
  Frame -> {{True, None}, {True, None}},
  Plot[x, {x, -0.02, 0.4}, PlotStyle -> {Black, Dashed}]]

```



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In[ ]:= (*****

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In[ ]:= (*****

```

```

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

```

```

Out[ ]:= 0.012627

```

```

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

```

```

In[ ]:= h = Histogram[{diffsWhiskControl}, {-0.42, 0.42, bin}, hfn,
  ChartStyle -> (Directive[#, AbsoluteThickness[3]] & /@ {controlColor}),
  PerformanceGoal -> "Speed", PlotRange -> {{-0.42, 0.42}, {0, 0.22}}];

```

```

In[ ]:= h2 = Histogram[{diffsWhiskControl}, {-0.42, 0.42, bin}, hfn,
  ChartStyle -> {{controlColor}, Directive[Opacity[0.1], EdgeForm[]]},
  PlotRange -> {{-0.42, 0.42}, {0, 0.22}}];

```

```

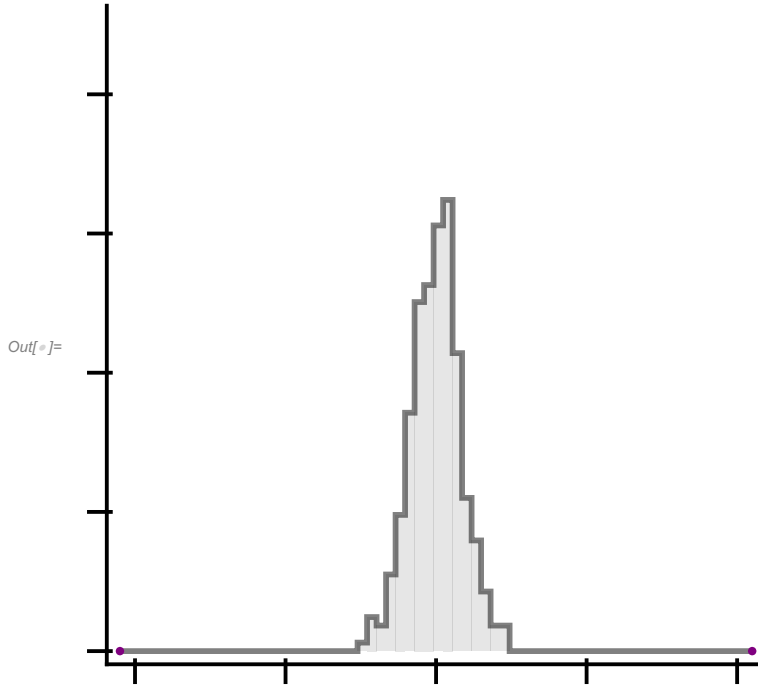
In[ ]:= hline = h /. rec : {({_Rectangle} | {})} ..} =>
  Line[Flatten[rec, 2] /. _[{x_, y_}, {X_, Y_}, ___] => Sequence[{x, Y}, {X, Y}]];

```

```

In[ ]:= histModIndexControl = Show[hline, h2, ListPlot[{{-0.42, 0}, {0.42, 0}}, PlotStyle -> Purple],
  PlotRange -> {{-0.42, 0.42}, {0, 0.22}}, FrameTicks ->
    {{LinTicks[0, 0.22, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
     {LinTicks[-0.42, 0.42, 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[diffsWhiskV1axons] * (Length[diffsWhiskV1axons] ^ (-1/3))

```

Out[ ]:= 0.0172619

```

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

```

```

In[ ]:= h = Histogram[{diffsWhiskV1axons}, {-0.42, 0.42, bin},
  hfn, ChartStyle -> (Directive[#, AbsoluteThickness[3]] & /@ {v1Color}),
  PerformanceGoal -> "Speed", PlotRange -> {{-0.42, 0.42}, {0, 0.22}}];

```

```

In[ ]:= h2 = Histogram[{diffsWhiskV1axons}, {-0.42, 0.42, bin},
  hfn, ChartStyle -> {{v1Color}, Directive[Opacity[0.1], EdgeForm[]]},
  PlotRange -> {{-0.42, 0.42}, {0, 0.22}}];

```

```

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

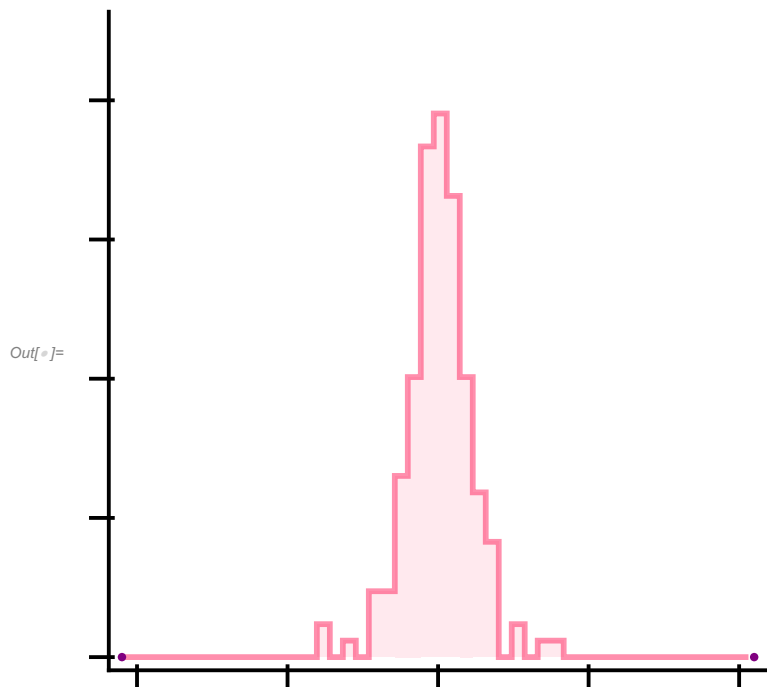
```



```

In[ ]:= histModIndexV1axons = Show[hline, h2, ListPlot[{{-0.42, 0}, {0.42, 0}}, PlotStyle -> Purple],
  PlotRange -> {{-0.42, 0.42}, {0, 0.22}}, FrameTicks ->
    {{LinTicks[0, 0.22, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
     {LinTicks[-0.42, 0.42, 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[diffswWhiskLPaxons] * (Length[diffswWhiskLPaxons] ^ (-1/3))

```

Out[ ]:= 0.0114693

```

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

```

```

In[ ]:= h = Histogram[{diffswWhiskLPaxons}, {-0.42, 0.42, bin},
  hfn, ChartStyle -> (Directive[#, AbsoluteThickness[3]] & /@ {lpColor}),
  PerformanceGoal -> "Speed", PlotRange -> {{-0.42, 0.42}, {0, 0.22}}];

```

```

In[ ]:= h2 = Histogram[{diffswWhiskLPaxons}, {-0.42, 0.42, bin},
  hfn, ChartStyle -> {{lpColor}, Directive[Opacity[0.1], EdgeForm[]]},
  PlotRange -> {{-0.42, 0.42}, {0, 0.22}}];

```

```

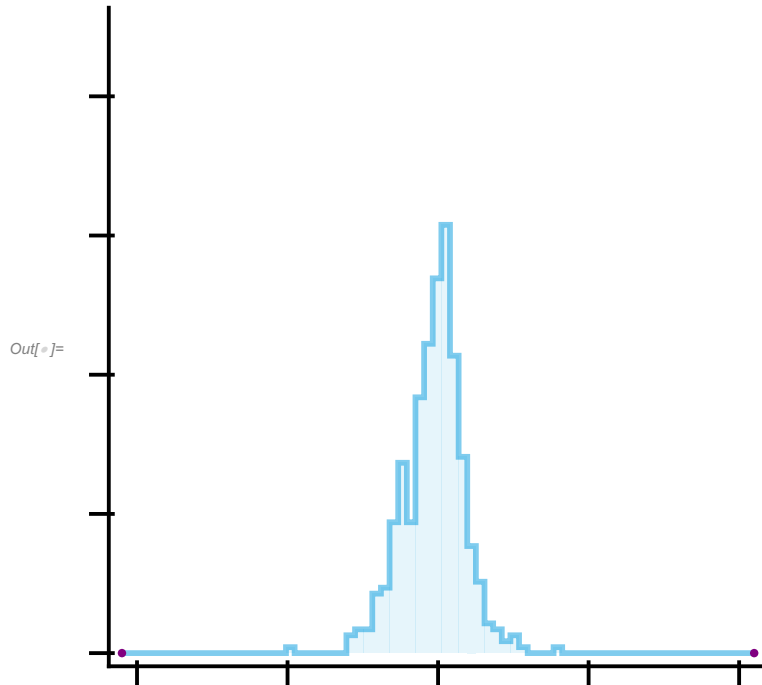
In[ ]:= hline = h /. rec : {({_Rectangle} | {})} .. =>
  Line[Flatten[rec, 2] /. _[{x_, y_}, {X_, Y_}, ___] => Sequence[{x, Y}, {X, Y}]];

```

```

In[ ]:= histModIndexLPaxons = Show[hline, h2, ListPlot[{{-0.42, 0}, {0.42, 0}}, PlotStyle -> Purple],
  PlotRange -> {{-0.42, 0.42}, {0, 0.22}}, FrameTicks ->
    {{LinTicks[0, 0.22, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
     {LinTicks[-0.42, 0.42, 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[diffsWhiskLMaxons] * (Length[diffsWhiskLMaxons] ^ (-1/3))

```

Out[ ]:= 0.0209539

```

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

```

```

In[ ]:= h = Histogram[{diffsWhiskLMaxons}, {-0.42, 0.42, bin},
  hfn, ChartStyle -> (Directive[#, AbsoluteThickness[3]] & /@ {lmColor}),
  PerformanceGoal -> "Speed", PlotRange -> {{-0.42, 0.42}, {0, 0.22}}];

```

```

In[ ]:= h2 = Histogram[{diffsWhiskLMaxons}, {-0.42, 0.42, bin},
  hfn, ChartStyle -> {{lmColor}, Directive[Opacity[0.1], EdgeForm[]]},
  PlotRange -> {{-0.42, 0.42}, {0, 0.22}}];

```

```

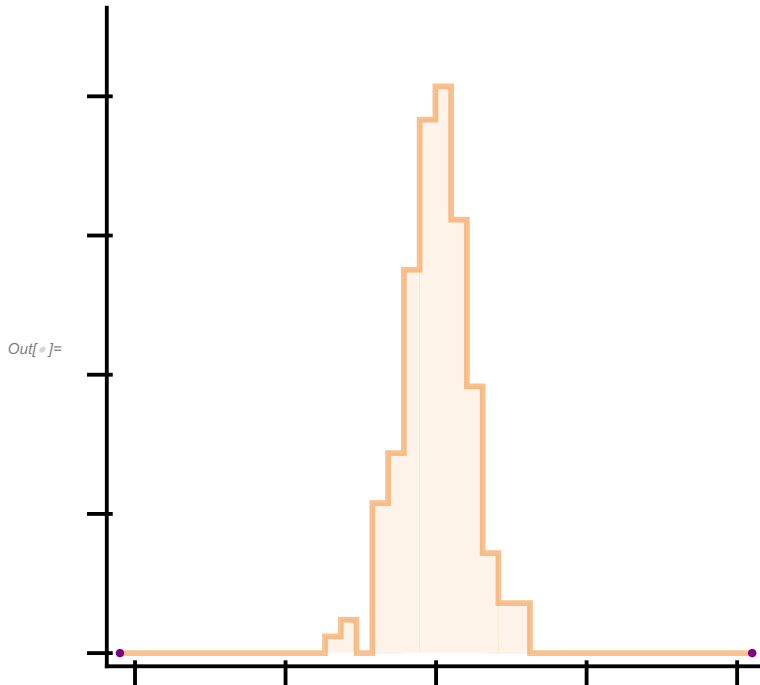
In[ ]:= hline = h /. rec : {({_Rectangle} | {})} .. =>
  Line[Flatten[rec, 2] /. _[{x_, y_}, {X_, Y_}, ___] => Sequence[{x, Y}, {X, Y}]];

```

```

In[ ]:= histModIndexLMaxons = Show[hline, h2, ListPlot[{{-0.42, 0}, {0.42, 0}}, PlotStyle -> Purple],
  PlotRange -> {{-0.42, 0.42}, {0, 0.22}}, FrameTicks ->
    {{LinTicks[0, 0.22, MajorTickLength -> {0, .03}, MinorTickLength -> {0, 0}], None},
     {LinTicks[-0.42, 0.42, 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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(*****
(*****Generate plots in Figure S7H*****
(*****

```

```

In[ ]:= controlCharts = Show[BoxWhiskerChart[diffsWhiskControl,
  {"Whiskers", Directive[Darker@controlColor, Thick]},
  {"Fences", Directive[Darker@controlColor, Thick]}, {"MedianMarker",
    Directive[Darker@controlColor, Thickness[0.009]]}], PlotRange -> {All, {-0.2, 0.2}},
  ChartStyle -> Directive[controlColor, Opacity[0.3]], Frame -> False],
  DistributionChart[diffsWhiskControl, PlotRange -> {All, {-0.2, 0.2}},
  ChartStyle -> Directive[EdgeForm[Transparent], Opacity[0.2], controlColor],
  Frame -> False], FrameTicks ->
  {{LinTicks[-0.2, 0.2, 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]];

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```

In[ ]:= v1AxonCharts = Show[
  BoxWhiskerChart[diffsWhiskV1axons, {"Whiskers", Directive[Darker@v1Color, Thick]},
    {"Fences", Directive[Darker@v1Color, Thick]}, {"MedianMarker",
      Directive[Darker@v1Color, Thickness[0.009]]}], PlotRange → {All, {-0.2, 0.2}},
  ChartStyle → Directive[v1Color, Opacity[0.3]], Frame → False],
  DistributionChart[diffsWhiskV1axons, PlotRange → {All, {-0.2, 0.2}},
  ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], v1Color], Frame → False],
  FrameTicks → {{LinTicks[-0.2, 0.2, 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[diffsWhiskLPaxons, {"Whiskers", Directive[Darker@lpColor, Thick]},
    {"Fences", Directive[Darker@lpColor, Thick]}, {"MedianMarker",
      Directive[Darker@lpColor, Thickness[0.009]]}], PlotRange → {All, {-0.2, 0.2}},
  ChartStyle → Directive[lpColor, Opacity[0.3]], Frame → False],
  DistributionChart[diffsWhiskLPaxons, PlotRange → {All, {-0.2, 0.2}},
  ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lpColor], Frame → False],
  FrameTicks → {{LinTicks[-0.2, 0.2, 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[diffsWhiskLMaxons, {"Whiskers", Directive[Darker@lmColor, Thick]},
    {"Fences", Directive[Darker@lmColor, Thick]}, {"MedianMarker",
      Directive[Darker@lmColor, Thickness[0.009]]}], PlotRange → {All, {-0.2, 0.2}},
  ChartStyle → Directive[lmColor, Opacity[0.3]], Frame → False],
  DistributionChart[diffsWhiskLMaxons, PlotRange → {All, {-0.2, 0.2}},
  ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lmColor], Frame → False],
  FrameTicks → {{LinTicks[-0.2, 0.2, 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[diffsWhiskControl, {"Whiskers", Directive[Transparent, Thick]},
    {"Fences", Directive[Transparent, Thick]},
    {"MedianMarker", Directive[Transparent, Thickness[0.009]]}],
  PlotRange → {All, {-0.2, 0.2}}, ChartStyle → Transparent, Frame → False],
  DistributionChart[diffsWhiskControl, PlotRange → {All, {-0.2, 0.2}}, ChartStyle →
    Directive[EdgeForm[Transparent], Opacity[0.2], Transparent], Frame → False],
  FrameTicks → {{LinTicks[-0.2, 0.2, 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[ ]:=

