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[•]:= v2mColor = Purple;

In[•]:= (****V1 to V2m******)

In[•]:= dateMouseSessionList =
    {{"082120", "Mouse21060", "Session2"}, {"082220", "Mouse21060", "Session3"},
     {"082320", "Mouse21060", "Session2"}, {"082520", "Mouse21060", "Session2"},
     {"090820", "Mouse21067", "Session2"}, {"101720", "Mouse23392", "Session1"},
     {"101520", "Mouse23393", "Session2"}, {"101420", "Mouse23395", "Session2"},
     {"121020", "Mouse23379", "Session1"}, {"121520", "Mouse23365", "Session2"},
     {"122020", "Mouse23365", "Session1"}, {"121520", "Mouse23379", "Session2"},
     {"121920", "Mouse23379", "Session1"}, {"020421", "Mouse23320", "Session1"},
     {"020421", "Mouse23329", "Session1"}, {"022721", "Mouse23329", "Session1"},
     {"030621", "Mouse23329", "Session1"}, {"071721", "Mouse21108", "Session1"}};

In[•]:= (***Extract all the ROIs for this particular stimulus type***)

In[•]:= allROIsPerSession =
    Table[Range@Length[FileNames["*", File[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
        dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
        "/", dateMouseSessionList[[n, 3]], "/dFOverF0TimeSeries/"]]]],
     {n, 1, Length[dateMouseSessionList]}];

In[•]:= discardROIsList =
    Table[Flatten@(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
        dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
        dateMouseSessionList[[n, 3]], "/", dateMouseSessionList[[n, 1]], "_",
        dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]], "_",
        "discardROIs", ".txt"], "List"]), {n, 1, Length[dateMouseSessionList]}];

In[•]:= allROIsPerSession = Table[Complement[allROIsPerSession[[n]], discardROIsList[[n]]],
     {n, 1, Length[allROIsPerSession]}];

In[•]:= sigRespGratingsROIsPerSession =
    Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
      dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
      dateMouseSessionList[[n, 3]], "/VisStimResults/", dateMouseSessionList[[n, 1]],
      "_", dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]], "_",
      "sigResponsiveROIs.txt"], "List"], {n, 1, Length[dateMouseSessionList]}];

In[•]:= sigRespGratingsROIsPerSession =
    Table[Complement[sigRespGratingsROIsPerSession[[n]], discardROIsList[[n]]],
     {n, 1, Length[sigRespGratingsROIsPerSession]}];

In[•]:= nonSigROIsPerSession =
    Table[Complement[allROIsPerSession[[n]], sigRespGratingsROIsPerSession[[n]]],
     {n, 1, Length[dateMouseSessionList]}];

```
In[•]:= (***Extract all the visual responses for the ROIs extracted***)

In[•]:= visRespGratingsV1toV2m = Abs /@ DeleteCases[
          Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
                dateMouseSessionList[[n, 3]], "/VisStimResults/", dateMouseSessionList[[n, 1]],
                "_", dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]],
                "_", "overallVisResponse_ZDFF", ToString[roi], ".txt"], "List"],
              {roi, sigRespGratingsROIsPerSession[[n]]}],
            {n, 1, Length[sigRespGratingsROIsPerSession]}], _? (Not@*NumericQ)];

In[•]:= visRespNonRespV1toV2m =
        DeleteCases[Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
              dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
              "/", dateMouseSessionList[[n, 3]], "/VisStimResults/",
              dateMouseSessionList[[n, 1]], "_", dateMouseSessionList[[n, 2]],
              "_", dateMouseSessionList[[n, 3]], "_", "overallVisResponse_ZDFF",
              ToString[roi], ".txt"], "List"], {roi, nonSigROIsPerSession[[n]]}],
          {n, 1, Length[nonSigROIsPerSession]}], _? (Not@*NumericQ)];

In[•]:= visRespAllV1toV2m =
        DeleteCases[Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
              dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
              "/", dateMouseSessionList[[n, 3]], "/VisStimResults/",
              dateMouseSessionList[[n, 1]], "_", dateMouseSessionList[[n, 2]],
              "_", dateMouseSessionList[[n, 3]], "_", "overallVisResponse_ZDFF",
              ToString[roi], ".txt"], "List"], {roi, allROIsPerSession[[n]]}],
          {n, 1, Length[nonSigROIsPerSession]}], _? (Not@*NumericQ)];

In[•]:= (****LM to V2m******)

In[•]:= dateMouseSessionList = {{"092221", "Mouse22422", "Session1"},
        {"100421", "Mouse22422", "Session1"}, {"081221", "Mouse22437", "Session2"},
        {"081521", "Mouse22437", "Session1"}, {"082021", "Mouse22437", "Session1"},
        {"082421", "Mouse22437", "Session1"}, {"092321", "Mouse22472", "Session1"},
        {"101021", "Mouse22472", "Session1"}, {"081921", "Mouse22491", "Session1"},
        {"102021", "Mouse22422", "Session1"}, {"102121", "Mouse22436", "Session1"},
        {"102221", "Mouse22472", "Session1"}, {"071522", "Mouse23025", "Session1"},
        {"071222", "Mouse23100", "Session2"}, {"071122", "Mouse23014", "Session1"},
        {"070822", "Mouse22518", "Session1"}, {"071022", "Mouse22518", "Session1"}};

In[•]:= (***Extract all the ROIs for this particular stimulus type***)

In[•]:= allROIsPerSession =
        Table[Range@Length[FileNames["*", File[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
              dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
              "/", dateMouseSessionList[[n, 3]], "/dFOverF0TimeSeries/"]]]],
          {n, 1, Length[dateMouseSessionList]}];
```

```
In[•]:= discardROIsList =
       Table[Flatten@(ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
            dateMouseSessionList[[n, 3]], "/", dateMouseSessionList[[n, 1]], "_",
            dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]], "_",
            "discardROIs", ".txt"], "List"]), {n, 1, Length[dateMouseSessionList]}];
```

```
In[•]:= allROIsPerSession = Table[Complement[allROIsPerSession[[n]], discardROIsList[[n]]],
         {n, 1, Length[allROIsPerSession]}];
```

```
In[•]:= sigRespGratingsROIsPerSession =
       Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
          dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
          dateMouseSessionList[[n, 3]], "/VisStimResults/", dateMouseSessionList[[n, 1]],
          "_", dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]], "_",
          "sigResponsiveROIs.txt"], "List"], {n, 1, Length[dateMouseSessionList]}];
```

```
In[•]:= sigRespGratingsROIsPerSession =
       Table[Complement[sigRespGratingsROIsPerSession[[n]], discardROIsList[[n]]],
         {n, 1, Length[sigRespGratingsROIsPerSession]}];
```

```
In[•]:= nonSigROIsPerSession =
       Table[Complement[allROIsPerSession[[n]], sigRespGratingsROIsPerSession[[n]]],
         {n, 1, Length[dateMouseSessionList]}];
```

```
In[•]:= (***Extract all the visual responses for the ROIs extracted***)
```

```
In[•]:= visRespGratingsLMtoV2m = Abs /@ DeleteCases[
         Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
              dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
              dateMouseSessionList[[n, 3]], "/VisStimResults/", dateMouseSessionList[[n, 1]],
              "_", dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]],
              "_", "overallVisResponse_ZDFF", ToString[roi], ".txt"], "List"],
           {roi, sigRespGratingsROIsPerSession[[n]]}},
          {n, 1, Length[sigRespGratingsROIsPerSession]}], _? (Not@*NumericQ)];
```

```
In[•]:= visRespNonRespLMtoV2m =
       DeleteCases[Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
            "/", dateMouseSessionList[[n, 3]], "/VisStimResults/",
            dateMouseSessionList[[n, 1]], "_", dateMouseSessionList[[n, 2]],
            "_", dateMouseSessionList[[n, 3]], "_", "overallVisResponse_ZDFF",
            ToString[roi], ".txt"], "List"], {roi, nonSigROIsPerSession[[n]]}},
          {n, 1, Length[nonSigROIsPerSession]}], _? (Not@*NumericQ)];
```

```
In[•]:= visRespAllLMtoV2m =
       DeleteCases[Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
            "/", dateMouseSessionList[[n, 3]], "/VisStimResults/",
            dateMouseSessionList[[n, 1]], "_", dateMouseSessionList[[n, 2]],
            "_", dateMouseSessionList[[n, 3]], "_", "overallVisResponse_ZDFF",
            ToString[roi], ".txt"], "List"], {roi, allROIsPerSession[[n]]}},
          {n, 1, Length[nonSigROIsPerSession]}], _? (Not@*NumericQ)];
```

```
In[ ]:= (****LP to V2m******)
```

```
In[ ]:= dateMouseSessionList = {{"102020", "Mouse23394", "Session2"},
        {"102320", "Mouse23394", "Session1"}, {"100720", "Mouse23399", "Session2"},
        {"101020", "Mouse23399", "Session2"}, {"110120", "Mouse23394", "Session2"},
        {"103120", "Mouse23378", "Session2"}, {"110320", "Mouse23378", "Session1"},
        {"110120", "Mouse23377", "Session1"}, {"111620", "Mouse23384", "Session1"},
        {"111720", "Mouse23384", "Session3"}, {"112020", "Mouse23384", "Session2"},
        {"120420", "Mouse23378", "Session1"}, {"120220", "Mouse23378", "Session2"},
        {"120420", "Mouse23384", "Session1"}, {"120220", "Mouse23384", "Session2"},
        {"121620", "Mouse23381", "Session2"}, {"121920", "Mouse23381", "Session1"},
        {"011221", "Mouse23369", "Session1"}, {"011521", "Mouse23369", "Session2"},
        {"010721", "Mouse23339", "Session1"}, {"011521", "Mouse23339", "Session1"},
        {"030921", "Mouse23339", "Session1"}, {"031121", "Mouse23369", "Session1"},
        {"070122", "Mouse23067", "Session1"}, {"071122", "Mouse23075", "Session1"}};
```

```
In[ ]:= (***Extract all the ROIs for this particular stimulus type***)
```

```
In[ ]:= allROIsPerSession =
      Table[Range@Length[FileNames["*", File[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
            "/", dateMouseSessionList[[n, 3]], "/dFOverF0TimeSeries/"]]]],
        {n, 1, Length[dateMouseSessionList]}];
```

```
In[ ]:= discardROIsList =
      Table[Flatten@ (ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
            dateMouseSessionList[[n, 3]], "/", dateMouseSessionList[[n, 1]], "_",
            dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]], "_",
            "discardROIs", ".txt"], "List"]), {n, 1, Length[dateMouseSessionList]}];
```

```
In[ ]:= allROIsPerSession = Table[Complement[allROIsPerSession[[n]], discardROIsList[[n]]],
        {n, 1, Length[allROIsPerSession]}];
```

```
In[ ]:= sigRespGratingsROIsPerSession =
      Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
          dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
          dateMouseSessionList[[n, 3]], "/VisStimResults/", dateMouseSessionList[[n, 1]],
          "_", dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]], "_",
          "sigResponsiveROIs.txt"], "List"], {n, 1, Length[dateMouseSessionList]}];
```

```
In[ ]:= sigRespGratingsROIsPerSession =
      Table[Complement[sigRespGratingsROIsPerSession[[n]], discardROIsList[[n]]],
        {n, 1, Length[sigRespGratingsROIsPerSession]}];
```

```
In[ ]:= nonSigROIsPerSession =
      Table[Complement[allROIsPerSession[[n]], sigRespGratingsROIsPerSession[[n]]],
        {n, 1, Length[dateMouseSessionList]}];
```

```
In[ ]:= (***Extract all the visual responses for the ROIs extracted***)
```

```
In[ ]:= visRespGratingsLPtoV2m = Abs /@ DeleteCases[
        Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
            dateMouseSessionList[[n, 3]], "/VisStimResults/", dateMouseSessionList[[n, 1]],
            "_", dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]],
            "_", "overallVisResponse_ZDFF", ToString[roi], ".txt"], "List"],
          {roi, sigRespGratingsROIsPerSession[[n]]}],
         {n, 1, Length[sigRespGratingsROIsPerSession]}], _ ? (Not@*NumericQ)];
```

```
In[ ]:= visRespNonRespLPtoV2m =
      DeleteCases[Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
            "/", dateMouseSessionList[[n, 3]], "/VisStimResults/",
            dateMouseSessionList[[n, 1]], "_", dateMouseSessionList[[n, 2]],
            "_", dateMouseSessionList[[n, 3]], "_", "overallVisResponse_ZDFF",
            ToString[roi], ".txt"], "List"], {roi, nonSigROIsPerSession[[n]]}],
         {n, 1, Length[nonSigROIsPerSession]}], _ ? (Not@*NumericQ)];
```

```
In[ ]:= visRespAllLPtoV2m =
      DeleteCases[Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
            "/", dateMouseSessionList[[n, 3]], "/VisStimResults/",
            dateMouseSessionList[[n, 1]], "_", dateMouseSessionList[[n, 2]],
            "_", dateMouseSessionList[[n, 3]], "_", "overallVisResponse_ZDFF",
            ToString[roi], ".txt"], "List"], {roi, allROIsPerSession[[n]]}],
         {n, 1, Length[nonSigROIsPerSession]}], _ ? (Not@*NumericQ)];
```

```
In[ ]:= (****V2m******)
```

```
In[ ]:= dateMouseSessionList = {{"090820", "Mouse21011", "Session2"},
        {"092620", "Mouse21011", "Session1"}, {"091520", "Mouse21069", "Session2"},
        {"112020", "Mouse23383", "Session2"}, {"112120", "Mouse23383", "Session2"},
        {"112220", "Mouse23386", "Session1"}, {"120520", "Mouse23383", "Session2"},
        {"010121", "Mouse23382", "Session1"}, {"011521", "Mouse23390", "Session2"},
        {"011821", "Mouse23390", "Session2"}, {"021221", "Mouse23359", "Session2"},
        {"021821", "Mouse23310", "Session1"}, {"030221", "Mouse23310", "Session1"},
        {"031121", "Mouse23310", "Session1"}, {"021721", "Mouse23338", "Session1"},
        {"022621", "Mouse23338", "Session1"}, {"030221", "Mouse23338", "Session1"},
        {"031521", "Mouse23338", "Session2"}, {"031921", "Mouse23338", "Session1"},
        {"072421", "Mouse21151", "Session2"}, {"080121", "Mouse22481", "Session1"},
        {"072521", "Mouse21133", "Session1"}, {"072121", "Mouse21170", "Session1"}};
```

```
In[ ]:= (***Extract all the ROIs for this particular stimulus type***)
```

```
In[ ]:= allROIsPerSession =
      Table[Range@Length[FileNames["*", File[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
            dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
            "/", dateMouseSessionList[[n, 3]], "/dFOverF0TimeSeries/"]]]],
       {n, 1, Length[dateMouseSessionList]}];
```

```
In[•]:= sigRespGratingsROIsPerSession =
     Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
         dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
         dateMouseSessionList[[n, 3]], "/VisStimResults/", dateMouseSessionList[[n, 1]],
         "_", dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]], "_",
         "sigResponsiveROIs.txt"], "List"], {n, 1, Length[dateMouseSessionList]}];
```

```
In[•]:= nonSigROIsPerSession =
     Table[Complement[allROIsPerSession[[n]], sigRespGratingsROIsPerSession[[n]]],
       {n, 1, Length[dateMouseSessionList]}];
```

```
In[•]:= (***Extract all the visual responses for the ROIs extracted***)
```

```
In[•]:= visRespGratingsV2m = Abs /@ DeleteCases[
       Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
           dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]], "/",
           dateMouseSessionList[[n, 3]], "/VisStimResults/", dateMouseSessionList[[n, 1]],
           "_", dateMouseSessionList[[n, 2]], "_", dateMouseSessionList[[n, 3]],
           "_", "overallVisResponse_ZDFF", ToString[roi], ".txt"], "List"],
         {roi, sigRespGratingsROIsPerSession[[n]]}],
        {n, 1, Length[sigRespGratingsROIsPerSession]}], _? (Not@*NumericQ)];
```

```
In[•]:= visRespNonRespV2m =
     DeleteCases[Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
           dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
           "/", dateMouseSessionList[[n, 3]], "/VisStimResults/",
           dateMouseSessionList[[n, 1]], "_", dateMouseSessionList[[n, 2]],
           "_", dateMouseSessionList[[n, 3]], "_", "overallVisResponse_ZDFF",
           ToString[roi], ".txt"], "List"], {roi, nonSigROIsPerSession[[n]]}],
         {n, 1, Length[nonSigROIsPerSession]}], _? (Not@*NumericQ)];
```

```
In[•]:= visRespAllV2m =
     DeleteCases[Flatten@Table[Table[Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
           dateMouseSessionList[[n, 1]], "/", dateMouseSessionList[[n, 2]],
           "/", dateMouseSessionList[[n, 3]], "/VisStimResults/",
           dateMouseSessionList[[n, 1]], "_", dateMouseSessionList[[n, 2]],
           "_", dateMouseSessionList[[n, 3]], "_", "overallVisResponse_ZDFF",
           ToString[roi], ".txt"], "List"], {roi, allROIsPerSession[[n]]}],
         {n, 1, Length[nonSigROIsPerSession]}], _? (Not@*NumericQ)];
```

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

```
In[•]:= v1AxonCharts = Show[
       BoxWhiskerChart[visRespAllV1toV2m, {{"Whiskers", Directive[Darker@v1Color, Thick]},
         {"Fences", Directive[Darker@v1Color, Thick]}, {"MedianMarker",
          Directive[Darker@v1Color, Thickness[0.009]]}}, PlotRange → {{-0.6, 2}, {-4, 10}},
        ChartStyle → Directive[v1Color, Opacity[0.3]], Frame → False],
       DistributionChart[visRespAllV1toV2m, PlotRange → {{-0.5, 0.9}, {-4, 10}},
        ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], v1Color], Frame → False],
       FrameTicks → {{LinTicks[-4, 10, 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]];
```

```mathematica
In[ ]:= lmAxonCharts = Show[
    BoxWhiskerChart[visRespAllLMtoV2m, {{"Whiskers", Directive[Darker@lmColor, Thick]},
      {"Fences", Directive[Darker@lmColor, Thick]}, {"MedianMarker",
       Directive[Darker@lmColor, Thickness[0.009]]}}, PlotRange → {{-0.6, 2}, {-4, 10}},
     ChartStyle → Directive[lmColor, Opacity[0.3]], Frame → False],
    DistributionChart[visRespAllLMtoV2m, PlotRange → {{-0.5, 0.9}, {-4, 10}},
     ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lmColor], Frame → False],
    FrameTicks → {{LinTicks[-4, 10, 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[visRespAllLPtoV2m, {{"Whiskers", Directive[Darker@lpColor, Thick]},
      {"Fences", Directive[Darker@lpColor, Thick]}, {"MedianMarker",
       Directive[Darker@lpColor, Thickness[0.009]]}}, PlotRange → {{-0.6, 2}, {-4, 10}},
     ChartStyle → Directive[lpColor, Opacity[0.3]], Frame → False],
    DistributionChart[visRespAllLPtoV2m, PlotRange → {{-0.5, 0.9}, {-4, 10}},
     ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], lpColor], Frame → False],
    FrameTicks → {{LinTicks[-4, 10, 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[ ]:= v2mAxonCharts =
   Show[BoxWhiskerChart[visRespAllV2m, {{"Whiskers", Directive[Darker@v2mColor, Thick]},
      {"Fences", Directive[Darker@v2mColor, Thick]}, {"MedianMarker",
       Directive[Darker@v2mColor, Thickness[0.009]]}}, PlotRange → {{-0.6, 2}, {-4, 10}},
     ChartStyle → Directive[v2mColor, Opacity[0.3]], Frame → False],
    DistributionChart[visRespAllV2m, PlotRange → {{-0.5, 0.9}, {-4, 10}},
     ChartStyle → Directive[EdgeForm[Transparent], Opacity[0.2], v2mColor], Frame → False],
    FrameTicks → {{LinTicks[-4, 10, 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[visRespAllV2m, {{"Whiskers", Directive[Transparent, Thick]},
      {"Fences", Directive[Transparent, Thick]},
      {"MedianMarker", Directive[Transparent, Thickness[0.009]]}},
     PlotRange → {{-0.64, 2.0}, {-4, 10}}, ChartStyle → Transparent, Frame → False],
    DistributionChart[visRespAllV2m, PlotRange → {{-0.5, 0.9}, {-4, 10}}, ChartStyle →
      Directive[EdgeForm[Transparent], Opacity[0.2], Transparent], Frame → False],
    FrameTicks → {{LinTicks[-4, 10, 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]];
```
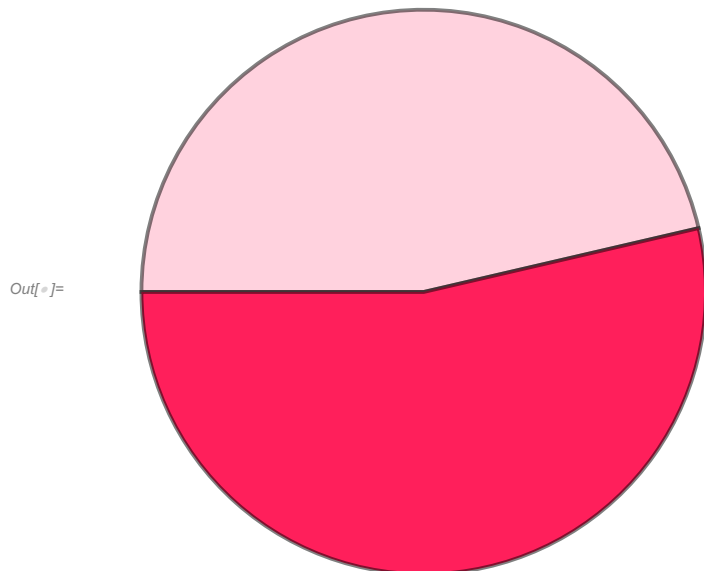
In[ ]:= `g = GraphicsRow[{v1AxonCharts, lmAxonCharts, lpAxonCharts, v2mAxonCharts, transp},`
`    Spacings → {{-280, -280, -280, -280, -480}}, ImageSize → 400]`

Out[ ]=
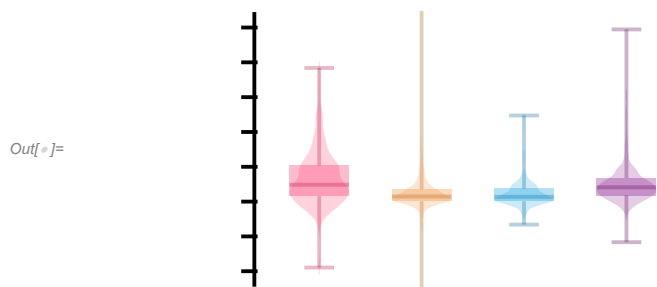
In[ ]:= `PieChart[{Length[visRespNonRespV1toV2m],`
`    Length[visRespAllV1toV2m] - Length[visRespNonRespV1toV2m]},`
`  ChartBaseStyle → EdgeForm[{Thick, Black}], ChartStyle → {Lighter[v1Color, 0.8], v1Color}]`
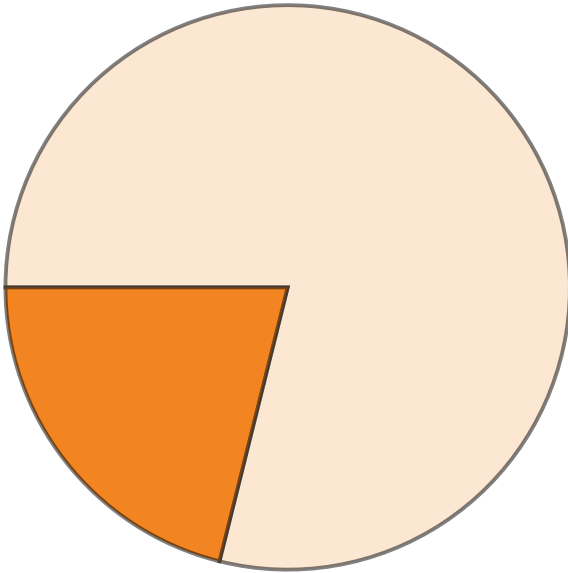
Out[ ]=

In[ ]:= `PieChart[{Length[visRespNonRespLMtoV2m],`
`    Length[visRespAllLMtoV2m] - Length[visRespNonRespLMtoV2m]},`
`  ChartBaseStyle → EdgeForm[{Thick, Black}], ChartStyle → {Lighter[lmColor, 0.8], lmColor}]`
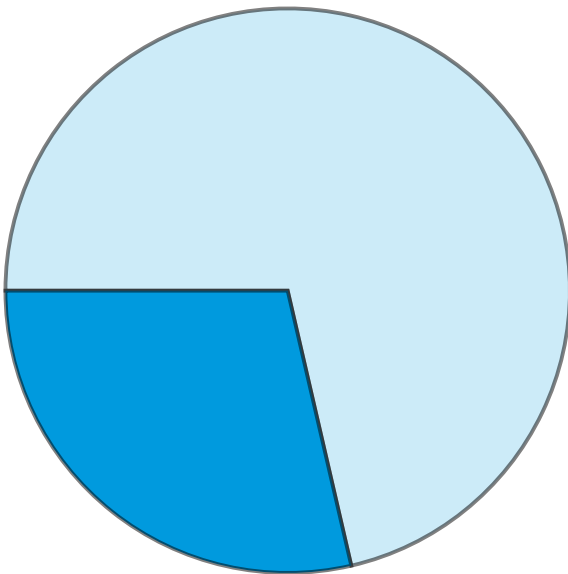
Out[ ]=

In[ ]:= `PieChart[{Length[visRespNonRespLPtoV2m],`
`    Length[visRespAllLPtoV2m] - Length[visRespNonRespLPtoV2m]},`
`  ChartBaseStyle → EdgeForm[{Thick, Black}], ChartStyle → {Lighter[lpColor, 0.8], lpColor}]`

Out[ ]=

In[•]:= `PieChart[{Length[visRespNonRespV2m], Length[visRespAllV2m] - Length[visRespNonRespV2m]},`
`ChartBaseStyle → EdgeForm[{Thick, Black}],`
`ChartStyle → {Lighter[v2mColor, 0.8], v2mColor}]`

Out[•]=