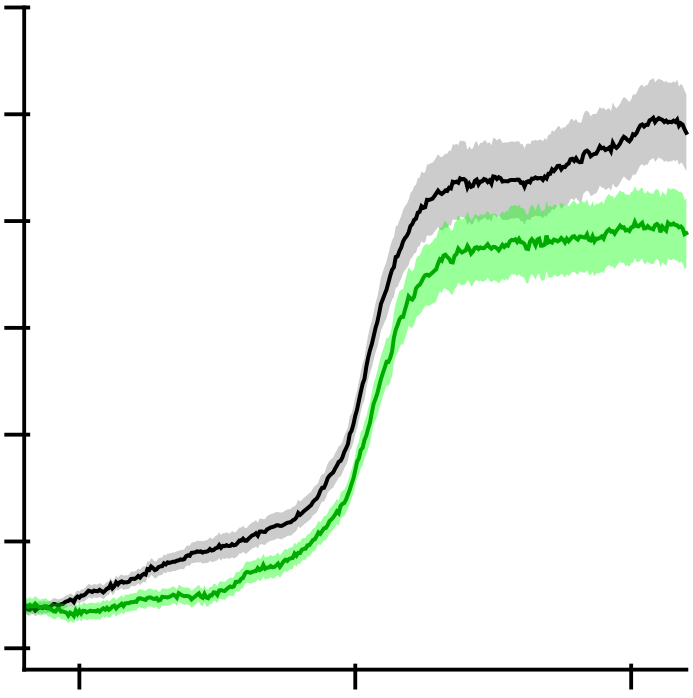
```
(***Note: Values for generating these plots are embedded within the raw data set,
which is too large to upload onto the public data repository***)

v1Color = RGBColor["#ff1f5b"];

lpColor = RGBColor["#009ade"];

lmColor = RGBColor["#f28522"];

controlColor = Black;

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

dateMouseListControl = {{"113021", "Mouse22428"},
   {"120221", "Mouse22525"}, {"121621", "Mouse22525"}, {"010622", "Mouse22598"},
   {"011122", "Mouse22598"}, {"121121", "Mouse22599"}, {"121721", "Mouse22599"},
   {"012122", "Mouse22550"}, {"011622", "Mouse22550"}, {"012322", "Mouse22549"},
   {"012822", "Mouse22549"}, {"032923", "Mouse23149"}, {"033123", "Mouse23149"}};

(***V1 axons, eOPN3***)

dateMouseListV1axons =
  {{"120921", "Mouse22485"}, {"121821", "Mouse22485"}, {"011222", "Mouse22501"},
   {"011822", "Mouse22504"}, {"012722", "Mouse22504"}, {"012322", "Mouse22575"}};

(***LPaxons, eOPN3***)

dateMouseListLPaxons = {{"020922", "Mouse22413"},
   {"021422", "Mouse22413"}, {"020122", "Mouse22514"}, {"012822", "Mouse22514"},
   {"021122", "Mouse22519"}, {"021322", "Mouse22519"}, {"021122", "Mouse22535"},
   {"021522", "Mouse22535"}, {"031522", "Mouse22521"}, {"031922", "Mouse22521"}};

(***LM axons, eOPN3***)

dateMouseListLMaxons =
  {{"022022", "Mouse22563"}, {"022222", "Mouse22563"}, {"031722", "Mouse22539"},
   {"031722", "Mouse22570"}, {"032022", "Mouse22539"}, {"032022", "Mouse22570"}};

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

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

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

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

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

        (*******Control*******)

In[ ]:= periOnsetDFFzTimeSeriesControlDark =
          Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseListControl[[n, 1]], "/", dateMouseListControl[[n, 2]],
                "/", "Session1", "/LocomotionData/", dateMouseListControl[[n, 1]],
                "_", dateMouseListControl[[n, 2]], "_", "Session1", "_",
                "PeriOnsetZDFF_PreAndPostBaseline_ROI", ToString[roi], ".txt"], "List"],
            {roi, pairedROIsListControl[[n]]}], {n, 1, Length[dateMouseListControl]}];

In[ ]:= periOnsetDFFzTimeSeriesControlLED =
          Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseListControl[[n, 1]], "/", dateMouseListControl[[n, 2]],
                "/", "Session2", "/LocomotionData/", dateMouseListControl[[n, 1]],
                "_", dateMouseListControl[[n, 2]], "_", "Session2", "_",
                "PeriOnsetZDFF_PreAndPostBaseline_ROI", ToString[roi], ".txt"], "List"],
            {roi, pairedROIsListControl[[n]]}], {n, 1, Length[dateMouseListControl]}];

In[ ]:= catenatedLocModOnsetControlDark = Flatten[periOnsetDFFzTimeSeriesControlDark, 1];

In[ ]:= catenatedLocModOnsetControlLED = Flatten[periOnsetDFFzTimeSeriesControlLED, 1];

In[ ]:= meanCatenatedLocModOnsetControlDark = Mean[catenatedLocModOnsetControlDark];

In[ ]:= semCatenatedLocModOnsetControlDark =
          (# / Sqrt@Length[catenatedLocModOnsetControlDark]) & /@
           StandardDeviation[catenatedLocModOnsetControlDark];

In[ ]:= meanCatenatedLocModOffsetControlDark = Mean[catenatedLocModOffsetControlDark];

In[ ]:= semCatenatedLocModOffsetControlDark =
          (# / Sqrt@Length[catenatedLocModOffsetControlDark]) & /@
           StandardDeviation[catenatedLocModOffsetControlDark];

In[ ]:= meanCatenatedLocModOnsetControlLED = Mean[catenatedLocModOnsetControlLED];

In[ ]:= semCatenatedLocModOnsetControlLED = (# / Sqrt@Length[catenatedLocModOnsetControlLED]) & /@
           StandardDeviation[catenatedLocModOnsetControlLED];

In[ ]:= meanCatenatedLocModOffsetControlLED = Mean[catenatedLocModOffsetControlLED];

In[ ]:= semCatenatedLocModOffsetControlLED =
          (# / Sqrt@Length[catenatedLocModOffsetControlLED]) & /@
           StandardDeviation[catenatedLocModOffsetControlLED];
```

In[•]:=
```
Show[ListLinePlot[{Part[#, 2] & /@ meanCatenatedLocModOnsetControlDark,
    Part[#, 2] & /@ meanCatenatedLocModOnsetControlDark +
     (Part[#, 2] & /@ semCatenatedLocModOnsetControlDark),
    Part[#, 2] & /@ meanCatenatedLocModOnsetControlDark -
     (Part[#, 2] & /@ semCatenatedLocModOnsetControlDark)}, Filling →
   {1 → {{2}, Directive[Opacity[0.4], Gray]}, 1 → {{3}, Directive[Opacity[0.4], Gray]}},
  PlotStyle → {{Black, Thickness[0.006]}, Transparent, Transparent},
  DataRange → {-15, 6}, PlotRange → {{-6, 6}, {-0.2, 6}}, FrameTicks →
   {{LinTicks[-0.2, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
    {LinTicks[-15, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
  Axes → False, TicksStyle → Thick, FrameStyle → Thick,
  Frame → {{True, None}, {True, None}}],
 ListLinePlot[{Part[#, 2] & /@ meanCatenatedLocModOnsetControlLED,
    Part[#, 2] & /@ meanCatenatedLocModOnsetControlLED +
     (Part[#, 2] & /@ semCatenatedLocModOnsetControlLED),
    Part[#, 2] & /@ meanCatenatedLocModOnsetControlLED -
     (Part[#, 2] & /@ semCatenatedLocModOnsetControlLED)}, Filling →
   {1 → {{2}, Directive[Opacity[0.4], Green]}, 1 → {{3}, Directive[Opacity[0.4], Green]}},
  PlotStyle → {{Darker@Green, Thickness[0.006]}, Transparent, Transparent},
  DataRange → {-15, 6}, PlotRange → {{-6, 6}, {-0.2, 6}}, FrameTicks →
   {{LinTicks[-0.2, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
    {LinTicks[-15, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
  Axes → False, TicksStyle → Thick, FrameStyle → Thick,
  Frame → {{True, None}, {True, None}}],
 FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
 AspectRatio → 1]
```

Out[•]=

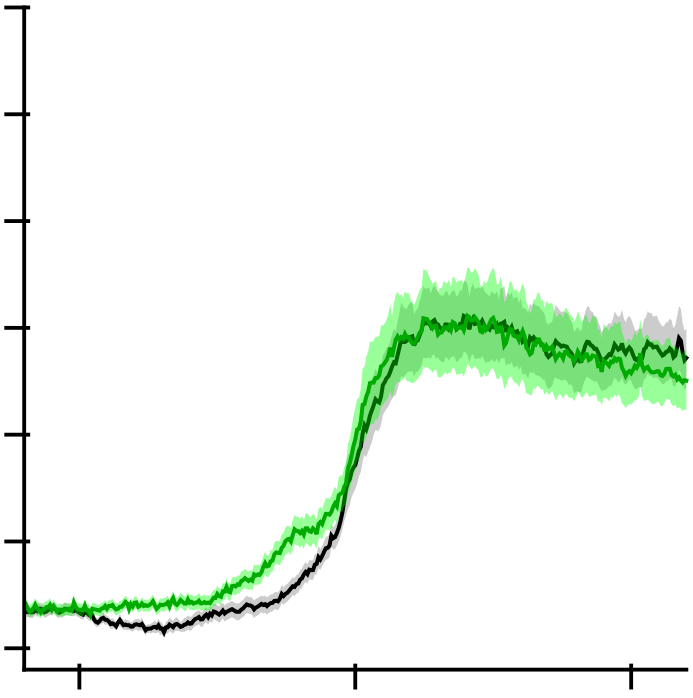


```
(*******V1 eOPN3*******)
```

```
In[•]:= periOnsetDFFzTimeSeriesV1axonsDark =
          Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]],
                "/", "Session1", "/LocomotionData/", dateMouseListV1axons[[n, 1]],
                "_", dateMouseListV1axons[[n, 2]], "_", "Session1", "_",
                "PeriOnsetZDFF_PreAndPostBaseline_ROI", ToString[roi], ".txt"], "List"],
              {roi, pairedROIsListV1axons[[n]]}], {n, 1, Length[dateMouseListV1axons]}];

In[•]:= periOnsetDFFzTimeSeriesV1axonsLED =
          Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseListV1axons[[n, 1]], "/", dateMouseListV1axons[[n, 2]],
                "/", "Session2", "/LocomotionData/", dateMouseListV1axons[[n, 1]],
                "_", dateMouseListV1axons[[n, 2]], "_", "Session2", "_",
                "PeriOnsetZDFF_PreAndPostBaseline_ROI", ToString[roi], ".txt"], "List"],
              {roi, pairedROIsListV1axons[[n]]}], {n, 1, Length[dateMouseListV1axons]}];

In[•]:= catenatedLocModOnsetV1axonsDark = Flatten[periOnsetDFFzTimeSeriesV1axonsDark, 1];

In[•]:= catenatedLocModOnsetV1axonsLED = Flatten[periOnsetDFFzTimeSeriesV1axonsLED, 1];

In[•]:= meanCatenatedLocModOnsetV1axonsDark = Mean[catenatedLocModOnsetV1axonsDark];

In[•]:= semCatenatedLocModOnsetV1axonsDark =
          (# / Sqrt@Length[catenatedLocModOnsetV1axonsDark]) & /@
           StandardDeviation[catenatedLocModOnsetV1axonsDark];

In[•]:= meanCatenatedLocModOffsetV1axonsDark = Mean[catenatedLocModOffsetV1axonsDark];

In[•]:= semCatenatedLocModOffsetV1axonsDark =
          (# / Sqrt@Length[catenatedLocModOffsetV1axonsDark]) & /@
           StandardDeviation[catenatedLocModOffsetV1axonsDark];

In[•]:= meanCatenatedLocModOnsetV1axonsLED = Mean[catenatedLocModOnsetV1axonsLED];

In[•]:= semCatenatedLocModOnsetV1axonsLED = (# / Sqrt@Length[catenatedLocModOnsetV1axonsLED]) & /@
           StandardDeviation[catenatedLocModOnsetV1axonsLED];

In[•]:= meanCatenatedLocModOffsetV1axonsLED = Mean[catenatedLocModOffsetV1axonsLED];

In[•]:= semCatenatedLocModOffsetV1axonsLED =
          (# / Sqrt@Length[catenatedLocModOffsetV1axonsLED]) & /@
           StandardDeviation[catenatedLocModOffsetV1axonsLED];
```

In[ ]:=
```
Show[ListLinePlot[{Part[#, 2] & /@ meanCatenatedLocModOnsetV1axonsDark,
    Part[#, 2] & /@ meanCatenatedLocModOnsetV1axonsDark +
     (Part[#, 2] & /@ semCatenatedLocModOnsetV1axonsDark),
    Part[#, 2] & /@ meanCatenatedLocModOnsetV1axonsDark -
     (Part[#, 2] & /@ semCatenatedLocModOnsetV1axonsDark)}, Filling →
   {1 → {{2}, Directive[Opacity[0.4], Gray]}, 1 → {{3}, Directive[Opacity[0.4], Gray]}},
  PlotStyle → {{Black, Thickness[0.006]}, Transparent, Transparent},
  DataRange → {-15, 6}, PlotRange → {{-6, 6}, {-0.2, 6}}, FrameTicks →
   {{LinTicks[-0.2, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
    {LinTicks[-15, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
  Axes → False, TicksStyle → Thick, FrameStyle → Thick,
  Frame → {{True, None}, {True, None}}],
 ListLinePlot[{Part[#, 2] & /@ meanCatenatedLocModOnsetV1axonsLED,
    Part[#, 2] & /@ meanCatenatedLocModOnsetV1axonsLED +
     (Part[#, 2] & /@ semCatenatedLocModOnsetV1axonsLED),
    Part[#, 2] & /@ meanCatenatedLocModOnsetV1axonsLED -
     (Part[#, 2] & /@ semCatenatedLocModOnsetV1axonsLED)}, Filling →
   {1 → {{2}, Directive[Opacity[0.4], Green]}, 1 → {{3}, Directive[Opacity[0.4], Green]}},
  PlotStyle → {{Darker@Green, Thickness[0.006]}, Transparent, Transparent},
  DataRange → {-15, 6}, PlotRange → {{-6, 6}, {-0.2, 6}}, FrameTicks →
   {{LinTicks[-0.2, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
    {LinTicks[-15, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
  Axes → False, TicksStyle → Thick, FrameStyle → Thick,
  Frame → {{True, None}, {True, None}}],
 FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
 AspectRatio → 1]
```

Out[ ]=

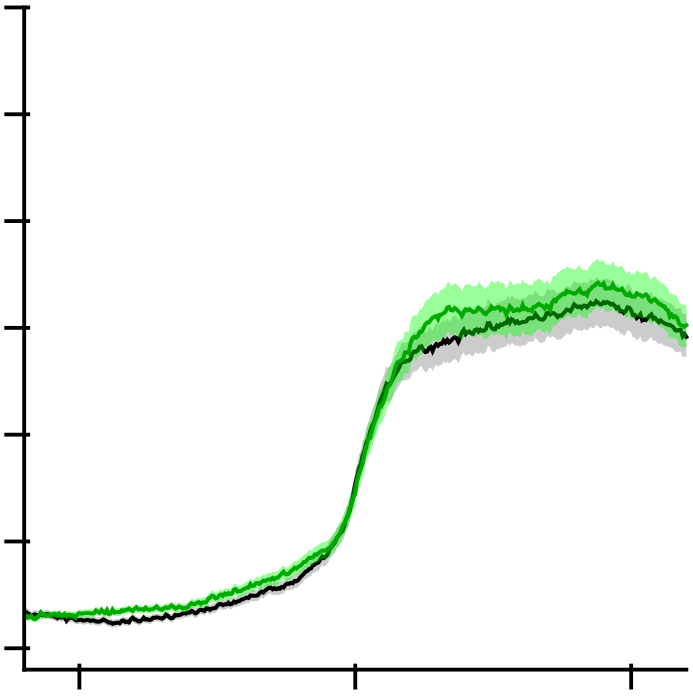


(*******LP eOPN3*******)

```
In[•]:= periOnsetDFFzTimeSeriesLPaxonsDark =
          Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseListLPaxons[[n, 1]], "/", dateMouseListLPaxons[[n, 2]],
                "/", "Session1", "/LocomotionData/", dateMouseListLPaxons[[n, 1]],
                "_", dateMouseListLPaxons[[n, 2]], "_", "Session1", "_",
                "PeriOnsetZDFF_PreAndPostBaseline_ROI", ToString[roi], ".txt"], "List"],
              {roi, pairedROIsListLPaxons[[n]]}], {n, 1, Length[dateMouseListLPaxons]}];

In[•]:= periOnsetDFFzTimeSeriesLPaxonsLED =
          Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseListLPaxons[[n, 1]], "/", dateMouseListLPaxons[[n, 2]],
                "/", "Session2", "/LocomotionData/", dateMouseListLPaxons[[n, 1]],
                "_", dateMouseListLPaxons[[n, 2]], "_", "Session2", "_",
                "PeriOnsetZDFF_PreAndPostBaseline_ROI", ToString[roi], ".txt"], "List"],
              {roi, pairedROIsListLPaxons[[n]]}], {n, 1, Length[dateMouseListLPaxons]}];

In[•]:= catenatedLocModOnsetLPaxonsDark = Flatten[periOnsetDFFzTimeSeriesLPaxonsDark, 1];

In[•]:= catenatedLocModOnsetLPaxonsLED = Flatten[periOnsetDFFzTimeSeriesLPaxonsLED, 1];

In[•]:= meanCatenatedLocModOnsetLPaxonsDark = Mean[catenatedLocModOnsetLPaxonsDark];

In[•]:= semCatenatedLocModOnsetLPaxonsDark =
          (# / Sqrt@Length[catenatedLocModOnsetLPaxonsDark]) & /@
           StandardDeviation[catenatedLocModOnsetLPaxonsDark];

In[•]:= meanCatenatedLocModOffsetLPaxonsDark = Mean[catenatedLocModOffsetLPaxonsDark];

In[•]:= semCatenatedLocModOffsetLPaxonsDark =
          (# / Sqrt@Length[catenatedLocModOffsetLPaxonsDark]) & /@
           StandardDeviation[catenatedLocModOffsetLPaxonsDark];

In[•]:= meanCatenatedLocModOnsetLPaxonsLED = Mean[catenatedLocModOnsetLPaxonsLED];

In[•]:= semCatenatedLocModOnsetLPaxonsLED = (# / Sqrt@Length[catenatedLocModOnsetLPaxonsLED]) & /@
           StandardDeviation[catenatedLocModOnsetLPaxonsLED];

In[•]:= meanCatenatedLocModOffsetLPaxonsLED = Mean[catenatedLocModOffsetLPaxonsLED];

In[•]:= semCatenatedLocModOffsetLPaxonsLED =
          (# / Sqrt@Length[catenatedLocModOffsetLPaxonsLED]) & /@
           StandardDeviation[catenatedLocModOffsetLPaxonsLED];
```

In[ ]:=
```
Show[ListLinePlot[{Part[#, 2] & /@ meanCatenatedLocModOnsetLPaxonsDark,
    Part[#, 2] & /@ meanCatenatedLocModOnsetLPaxonsDark +
     (Part[#, 2] & /@ semCatenatedLocModOnsetLPaxonsDark),
    Part[#, 2] & /@ meanCatenatedLocModOnsetLPaxonsDark -
     (Part[#, 2] & /@ semCatenatedLocModOnsetLPaxonsDark)}, Filling →
   {1 → {{2}, Directive[Opacity[0.4], Gray]}, 1 → {{3}, Directive[Opacity[0.4], Gray]}},
  PlotStyle → {{Black, Thickness[0.006]}, Transparent, Transparent},
  DataRange → {-15, 6}, PlotRange → {{-6, 6}, {-0.2, 6}}, FrameTicks →
   {{LinTicks[-0.2, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
    {LinTicks[-15, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
  Axes → False, TicksStyle → Thick, FrameStyle → Thick,
  Frame → {{True, None}, {True, None}}],
 ListLinePlot[{Part[#, 2] & /@ meanCatenatedLocModOnsetLPaxonsLED,
    Part[#, 2] & /@ meanCatenatedLocModOnsetLPaxonsLED +
     (Part[#, 2] & /@ semCatenatedLocModOnsetLPaxonsLED),
    Part[#, 2] & /@ meanCatenatedLocModOnsetLPaxonsLED -
     (Part[#, 2] & /@ semCatenatedLocModOnsetLPaxonsLED)}, Filling →
   {1 → {{2}, Directive[Opacity[0.4], Green]}, 1 → {{3}, Directive[Opacity[0.4], Green]}},
  PlotStyle → {{Darker@Green, Thickness[0.006]}, Transparent, Transparent},
  DataRange → {-15, 6}, PlotRange → {{-6, 6}, {-0.2, 6}}, FrameTicks →
   {{LinTicks[-0.2, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
    {LinTicks[-15, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
  Axes → False, TicksStyle → Thick, FrameStyle → Thick,
  Frame → {{True, None}, {True, None}}],
 FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
 AspectRatio → 1]
```

Out[ ]=



```
(*******LM eOPN3*******)
```

```
In[•]:= periOnsetDFFzTimeSeriesLMaxonsDark =
          Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseListLMaxons[[n, 1]], "/", dateMouseListLMaxons[[n, 2]],
                "/", "Session1", "/LocomotionData/", dateMouseListLMaxons[[n, 1]],
                "_", dateMouseListLMaxons[[n, 2]], "_", "Session1", "_",
                "PeriOnsetZDFF_PreAndPostBaseline_ROI", ToString[roi], ".txt"], "List"],
              {roi, pairedROIsListLMaxons[[n]]}], {n, 1, Length[dateMouseListLMaxons]}];

In[•]:= periOnsetDFFzTimeSeriesLMaxonsLED =
          Table[Table[ToExpression /@ Import[StringJoin["S:/Imaging/Garrett/FMB208_2PRig/",
                dateMouseListLMaxons[[n, 1]], "/", dateMouseListLMaxons[[n, 2]],
                "/", "Session2", "/LocomotionData/", dateMouseListLMaxons[[n, 1]],
                "_", dateMouseListLMaxons[[n, 2]], "_", "Session2", "_",
                "PeriOnsetZDFF_PreAndPostBaseline_ROI", ToString[roi], ".txt"], "List"],
              {roi, pairedROIsListLMaxons[[n]]}], {n, 1, Length[dateMouseListLMaxons]}];

In[•]:= catenatedLocModOnsetLMaxonsDark = Flatten[periOnsetDFFzTimeSeriesLMaxonsDark, 1];

In[•]:= catenatedLocModOnsetLMaxonsLED = Flatten[periOnsetDFFzTimeSeriesLMaxonsLED, 1];

In[•]:= meanCatenatedLocModOnsetLMaxonsDark = Mean[catenatedLocModOnsetLMaxonsDark];

In[•]:= semCatenatedLocModOnsetLMaxonsDark =
          (# / Sqrt@Length[catenatedLocModOnsetLMaxonsDark]) & /@
           StandardDeviation[catenatedLocModOnsetLMaxonsDark];

In[•]:= meanCatenatedLocModOffsetLMaxonsDark = Mean[catenatedLocModOffsetLMaxonsDark];

In[•]:= semCatenatedLocModOffsetLMaxonsDark =
          (# / Sqrt@Length[catenatedLocModOffsetLMaxonsDark]) & /@
           StandardDeviation[catenatedLocModOffsetLMaxonsDark];

In[•]:= meanCatenatedLocModOnsetLMaxonsLED = Mean[catenatedLocModOnsetLMaxonsLED];

In[•]:= semCatenatedLocModOnsetLMaxonsLED = (# / Sqrt@Length[catenatedLocModOnsetLMaxonsLED]) & /@
           StandardDeviation[catenatedLocModOnsetLMaxonsLED];

In[•]:= meanCatenatedLocModOffsetLMaxonsLED = Mean[catenatedLocModOffsetLMaxonsLED];

In[•]:= semCatenatedLocModOffsetLMaxonsLED =
          (# / Sqrt@Length[catenatedLocModOffsetLMaxonsLED]) & /@
           StandardDeviation[catenatedLocModOffsetLMaxonsLED];
```

In[ ]:=
```
Show[ListLinePlot[{Part[#, 2] & /@ meanCatenatedLocModOnsetLMaxonsDark,
    Part[#, 2] & /@ meanCatenatedLocModOnsetLMaxonsDark +
     (Part[#, 2] & /@ semCatenatedLocModOnsetLMaxonsDark),
    Part[#, 2] & /@ meanCatenatedLocModOnsetLMaxonsDark -
     (Part[#, 2] & /@ semCatenatedLocModOnsetLMaxonsDark)}, Filling →
   {1 → {{2}, Directive[Opacity[0.4], Gray]}, 1 → {{3}, Directive[Opacity[0.4], Gray]}},
  PlotStyle → {{Black, Thickness[0.006]}, Transparent, Transparent},
  DataRange → {-15, 6}, PlotRange → {{-6, 6}, {-0.2, 6}}, FrameTicks →
   {{LinTicks[-0.2, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
    {LinTicks[-15, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
  Axes → False, TicksStyle → Thick, FrameStyle → Thick,
  Frame → {{True, None}, {True, None}}],
 ListLinePlot[{Part[#, 2] & /@ meanCatenatedLocModOnsetLMaxonsLED,
    Part[#, 2] & /@ meanCatenatedLocModOnsetLMaxonsLED +
     (Part[#, 2] & /@ semCatenatedLocModOnsetLMaxonsLED),
    Part[#, 2] & /@ meanCatenatedLocModOnsetLMaxonsLED -
     (Part[#, 2] & /@ semCatenatedLocModOnsetLMaxonsLED)}, Filling →
   {1 → {{2}, Directive[Opacity[0.4], Green]}, 1 → {{3}, Directive[Opacity[0.4], Green]}},
  PlotStyle → {{Darker@Green, Thickness[0.006]}, Transparent, Transparent},
  DataRange → {-15, 6}, PlotRange → {{-6, 6}, {-0.2, 6}}, FrameTicks →
   {{LinTicks[-0.2, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None},
    {LinTicks[-15, 6, MajorTickLength → {0, .03}, MinorTickLength → {0, 0}], None}},
  Axes → False, TicksStyle → Thick, FrameStyle → Thick,
  Frame → {{True, None}, {True, None}}],
 FrameTicksStyle -> Directive[FontOpacity -> 0, FontSize -> 0],
 AspectRatio → 1]
```

Out[ ]=