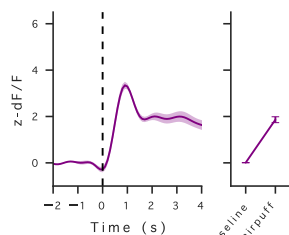


**A**

```

> apt = FiberPhotometryTest('LHA.h5', 'APT')
> apt.getMeans(auc_frame = {'airpuF-onset': [[-2,-1],[0,1.5]]})
> apt.plotMeans('LHA-DRN', 'airpuF', color='purple',
               periods=['baseline', 'airpuF'],
               xlim=[-2,4], ylim=[-1,6.5])

```

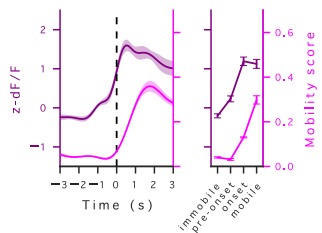


**B**

```

> tst = FiberPhotometryTest('LHA.h5', 'TST')
> tst.getMeans(auc_frame = {'immobility-onset': [[-3,-1],[0,1],[1,3]]})
> tst.plotMeans('LHA-DRN', 'immobility', 'offset', measure='mobility score',
               color='purple', periods=['immobility', 'pre-onset', 'onset', 'mobile'],
               ylim=[-1.5,2.5], yticks=[-1,0,1,2], xlim=[-3,3],
               ylim1=[0,0.7], yticks1=[0,0.2,0.4,0.6], ylabel='Mobility score')

```

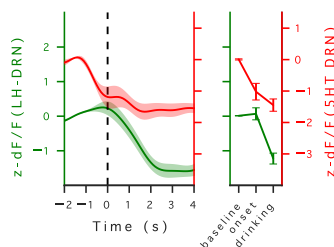


**C**

```

> sct = FiberPhotometryTest('LHA-5HT.h5', 'SCT')
> sct.getMeans(auc_frame = {'consumpt-onset': [[-2,-1],[-0.5,1],[2,3]]})
> sct.plotMeans('LHA-DRN', 'consumption', 'onset', output2='5HT DRN',
               periods=['baseline', 'onset', 'drinking'], xlim=[-2,4],
               ylim=[-2,3], yticks=[-1,0,1,2], ylabel='z-dF/F (LHA-DRN)', color='green',
               ylim1=[-4,1.5], yticks1=[-3,-2,-1,0,1], ylabel1='z-dF/F (5HT DRN)', color1='red')

```

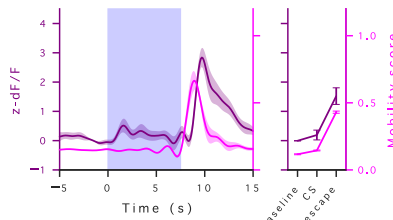


**D**

```

> atrain = FiberPhotometryTest('LHA.h5', 'Avoidance-Training')
> atrain.getMeans(auc_frame = {'escapeCS-onset': [[-2,-1],[0,8],[8,11]],
                             'perievent_windows = {'escapeCS-onset': [-5,15]]})
> atrain.plotMeans('LHA-DRN', 'escapeCS', measure='mobility score',
                  color='purple', periods=['baseline', 'CS', 'escape'],
                  w=[-5,15], xlim=[-5,15], ylim=[-1,4.5],
                  ylim1=[0,1.2], yticks1=[0,0.5,1,0], ylabel='Mobility score')

```

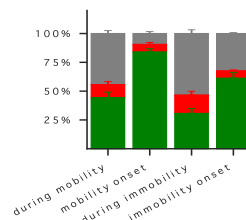


**E**

```

> tst = FiberPhotometryTest('LHA.h5', 'TST')
> tst.getMeasurePerieventCorrelation('immobility', 'movement', win=3)
> tst.plotMeasureCorrelationCounts('movement', 'LHA-DRN', 'immobility',
                                   event_labels = ['during mobility', 'mobility onset',
                                                    'during immobility', 'immobility onset'])

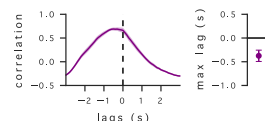
```



```

> tst.plotMeasureCrossCorrelation('movement', 'LHA-LHb', 'immobility', 'offset',
                                   color='red', xticks=[-2,-1,0,1,2], ylim=[-0.5,1],
                                   yticks=[-0.5,0,0.5,1], yticks1=[-1,-0.5,0,0.5])

```

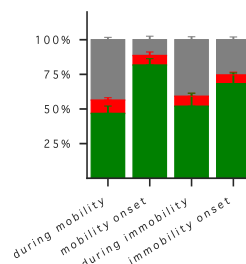


**F**

```

> tst = FiberPhotometryTest('LHA.h5', 'TST')
> tst.getOutputPerieventCorrelation('LHA-DRN', 'LHA-LHb', 'immobility', win=3)
> tst.plotMeasureCorrelationCounts('LHA-DRN', 'LHA-LHb', 'immobility',
                                   event_labels = ['during mobility', 'mobility onset',
                                                    'during immobility', 'immobility onset'])

```



**G**

```

> oft = FiberPhotometryTest('LHA.h5', 'OFT')
> oft.getMeasureCorrelation('movement')
> tst = FiberPhotometryTest('LHA.h5', 'TST')
> tst.getMeasureCorrelation('movement')
> exp = FiberPhotometryExperiment('LHA.h5')
> exp.plotRoverTests('LHA-DRN', measure='movement', tests=['OFT', 'TST'],
                    color='purple', ylabel='Pearson correlation',
                    ylim=[-0.2,0.8], figsize=(2,3))

```

