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[7] from scipy.io import loadmat
from tellurium import plot, show

[8] rna_data = loadmat('rna.mat')
rna1X = rna_data['rna1X']
rna1Y = rna_data['rna1Y']
rna2X = rna_data['rna2X']
rna2Y = rna_data['rna2Y']
rna3X = rna_data['rna3X']
rna3Y = rna_data['rna3Y']

[9] protein_data = loadmat('protein.mat')
Protein1X = protein_data['Protein1X']
Protein1Y = protein_data['Protein1Y']
Protein2X = protein_data['Protein2X']
Protein2Y = protein_data['Protein2Y']
Protein3X = protein_data['Protein3X']
Protein3Y = protein_data['Protein3Y']

[10] print('rna length',rna1X.size,rna2X.size,rna3X.size)
print('protein length',Protein1X.size,Protein2X.size,Protein3X.size)

rna length 480 480 480
protein length 480 480 480

[11] plot(rna1X.flatten(), rna1Y.flatten(), name='X', show=False)
plot(rna2X.flatten(), rna2Y.flatten(), name='Y', show=False)
plot(rna3X.flatten(), rna3Y.flatten(), name='Z', show=False)
# show()

<tellurium.plotting.engine_plotly.PlotlyFigure at 0x7f2618510898>

[12] plot(Protein1X.flatten(), Protein1Y.flatten(), name='PX', show=False)
plot(Protein2X.flatten(), Protein2Y.flatten(), name='PY', show=False)
plot(Protein3X.flatten(), Protein3Y.flatten(), name='PZ', show=False, xtitle='time(s)',
ytitle='conc. (nA)')
show()
```

