

Listing 1: NeuroML File for SHL-1 Ion Channel

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <neuroml xmlns="http://www.neuroml.org/schema/neuroml2"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4   xsi:schemaLocation="http://www.neuroml.org/schema/neuroml2 https://raw.githubusercontent.com/NeuroML/NeuroML2/master/Schemas/NeuroML2/NeuroML_v2beta.xsd"
5   id="k_fast">
6
7   <ionChannel id="k_fast" conductance="10pS" type="ionChannelHH" species="k">
8
9     <notes>K fast channel from Boyle and Cohen 2008</notes>
10
11     <gateHHtauInf id="p" instances="4">
12
13       <timeCourse type="fixedTimeCourse" tau="2.25518 ms"/>
14       <steadyState type="HHSigmoidVariable" rate="1" scale="7.42636 mV"
15         midpoint="-8.05232 mV"/>
16
17     </gateHHtauInf>
18
19     <gateHHtauInf id="q" instances="1">
20
21       <timeCourse type="fixedTimeCourse" tau="149.963 ms"/>
22       <steadyState type="HHSigmoidVariable" rate="1" scale="-9.97468 mV"
23         midpoint="-15.6456 mV"/>
24
25     </gateHHtauInf>
26
27   </ionChannel>
28 </neuroml>

```