<cell\_definition name=”CD8 T cell” identifier=”some\_number” version=”?”>

<!-- get attributes from MutilCellDS digital cell lines” -->

<!-- may need two types of identifiers: local versus community accepted -->

<metadata>

<dependencies>

<expected\_cell\_types />

<expected\_microenvironmental\_signals />

</dependencies>

</metadata>

<base\_signals> <!-- [S0] -->

<signal name=”oxygen” identifier=”dfdf” ontology=”ChEBI” value=”8” units=”mmHg” />

<signal name=”oxygen” identifier=”dfdf” ontology=”ChEBI” value=”8” units=”mmHg” />

</base\_signals>

<base\_phenotype /> <!-- [B0 -->

<!-- look at MultiCellDS and also PhysiCell version -->

<rules standard=”CBHG” version=”3.0”>

<rule signal=”[S]” behavior=”[B]” maximal\_behavior=”[Bmax]” type=”Hill” half\_max=”[hm]” Hill\_power=”[hp]” />

</rules>

in [Cell type T], [S] increases/decreases [B] from [B0] towards [Bmax], with a Hill response, with half-max [value] and Hill power [value]

</cell\_definition>

Current: (3.0)

in [Cell type T], [S] increases/decreases [B] from [B0] towards [Bmax], with a Hill response, with half-max [value] and Hill power [value]

In cancer cells, drug increases apoptosis from 0 towards 1e-3, with a Hill response, with half-max 0.25 and Hill power 4

expected / new / in development: (4.0)

In [Cell type T], increases/decreasing [S] from [S0] increases/decreases [B] from [B0] towards [Bmax], with a Hill response, with half-max [value] and Hill power [value]

In cancer cells, drug increases apoptosis towards 1e-3,

In cancer cells, increasing drug from 0 increases apoptosis from 0 to , …

In cancer cells, decreasing oxygen from 8 increases necrosis from 0 to