mtiss(isp] = production rate of isp

mptissrate[isp] = partial derivative of rate wrt conc[isp]

In tissrate (actually in tissrate.cpp.dat) we need to check the result of the advance of the cell(s) at this tissue point though Δt, as simulated by DRM.

Greens needs to handle all solute reactions (O2, glucose, drug+metabolites)

Note: greensTD iterates, calling tissrate many times. We want to update all cell states just once per time step (advancing cell though the cycle.)

Advance DRM through Δt using current nutrient and drug concs. This should be outside the iteration loop. Then allow greensTD to solve the solute field over Δt, using the tissrate system for rates of reaction.

(need to know how to solve IC and EC together, like for PR104A – Kevin.)

Tim 28/06/23

Thanks for your messages. We are using CUDA 10.1 with VS 2019. We have set up most of our programs to run this way. See [https://github.com/secomb](https://protect-au.mimecast.com/s/Rq4lCXLWGktPxk6Gi6dwAq?domain=github.com).   
  
Below are some brief instructions for converting the old GPU programs to run on this combination.  
  
I hope that this helps.  
  
Best wishes,  
  
Tim  
  
\_\_\_\_\_\_\_\_\_\_\_  
  
Running GPU programs on WHISPER2 using Visual Studio 2019  
1 August 2019  
  
Create a new project using the "CUDA 10.1 Runtime" option  
  
Remove the kernel.cu file  
  
Right-click on the project name, go to Properties | Linker | Input | Additional Dependencies | Edit  
Add C:\Program Files\NVIDIA GPU Computing Toolkit\CUDA\v10.1\lib\x64\cublas.lib  
(This is the old cublas library, the new one is cublas\_v2.)  
  
Other corrections may be needed:  
 - change abs to fabs if it is for float values  
 - add #include <stdio.h> if it is missing  
 - remove #include <shrUtils.h> and #include <cutil\_inline.h> and replace with #include <cuda\_runtime.h>  
  
Sample projects: C:\ProgramData\NVIDIA Corporation\CUDA Samples\v10.1