

1096-N5-2323

Rhyzl Ayang-ang Guimbatan* (rguimbatan@dcccd.edu), 1912 Foxwood Dr, Mesquite, TX 75181. *Biological Hacking by Stem Cells Derived from Gompertz Function Modeling*. Preliminary report.

Scientific breakthrough showed successful regeneration of cells in an organism's damaged tissue through the aid of stem cells. This "biological hack" allows a part of the body re-program itself with the use of these stem cells that behave somewhat like a tumor. This presentation focuses on mathematical modeling of stem cell kinetics derived from the Gompertz function, a sigmoid curve modeling of tumor growth. Using Mathematica as the main platform for curve-fitting, the model is then externally rendered into a three-dimensional model. (Received September 17, 2013)