

I read about the Society for industrial and applied mathematics Industry award given to Richard Allen for his work on mathematical representations of pathophysiology in the Sars-cov-2 pandemic. An equation used in the models $\frac{dCTL}{dt} = \alpha_{CTL}DC[1 + a_{IFN\beta}][1 + a_{IL12} + a_{IFN\gamma}][a_{IL10}/TGF\beta] - \beta_{CTL}CTL - k_{tr(CTL)}CTL$ [1], I think implemented [2] in Matlab on line 376 in the file covid19_dxdt.m.

[1] Richard Allen, A Prototype QSP Model of the Immune Response to SARS-CoV-2 for Community Development, 2021. <https://ascpt.onlinelibrary.wiley.com/doi/epdf/10.1002/psp4.12574>.

[2] Richard Allen, A Prototype QSP Model of the Immune Response to SARS-COV-2 for Community Development, 2020. <https://github.com/openPfizer/covid19-immune-model/>.