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On a cyclin content structured cell population model

A nonlinear cyclin content structured cell population model is considered. The population is divided into two types of cells: proliferative and quiescent. Under suitable hypotheses, a result on existence and uniqueness of a steady state of this model will be presented and some indications on the asymptotic behavior of the solutions as well as on numerical simulations will be briefly discussed.

This is a joint work with Ricardo Borges and Silvia Cuadrado from the Department of Mathematics of the Universitat Autònoma de Barcelona