**Additional file 1**

**ODE for the C1 Model:**



**ODEs for the C3 Model:**



and equations (S6) and (S7) to obtain [C].

**ODEs for the C4 Model**



and equations (S4) and (S5) to obtain [Femit] and [Fevac].

**ODEs for the C9 Model:**

Equations (S6) and (S7) and...













