



**Figure S2. Time course simulation of Chen's model with over-expression of its components. (A-D)** Time course simulation with gradual increase of the expression of *CDC14* alone (**A**, parameter  $k_{s,14}$ ), both *CDC14* and *NET1* (**B**, parameter  $k_{s,14}$  and  $k_{s,net}$ ), *ESP1* alone (**C**, parameter  $[Esp1]_T$ ), and both *ESP1* and *PDS1* (**D**, parameter  $[Esp1]_T$ ,  $k'_{s,pds}$ ,  $k''_{s1,pds}$  and  $k''_{s2,pds}$ ). Each parameter was increased at the rate of 12% of its original value per hour. Arrowhead indicates the timing when the simulation results in the cell cycle failure (abnormal chromosomal segregation at time).