

Figure S1: Snapshots of examples biofilms. (a) $t^{\rm durn}=8h$ at a time point of 10 days, (b) the same after 200 days, and (c) $t^{\rm durn}=4h$ after 200 days. Green (blue) discs correspond to populations of A (NA), respectively. The red in the background corresponds to the lactic acid, with red (black) corresponding to high (low) concentrations respectively. All other parameters are the same as Fig. 1 in the main article.