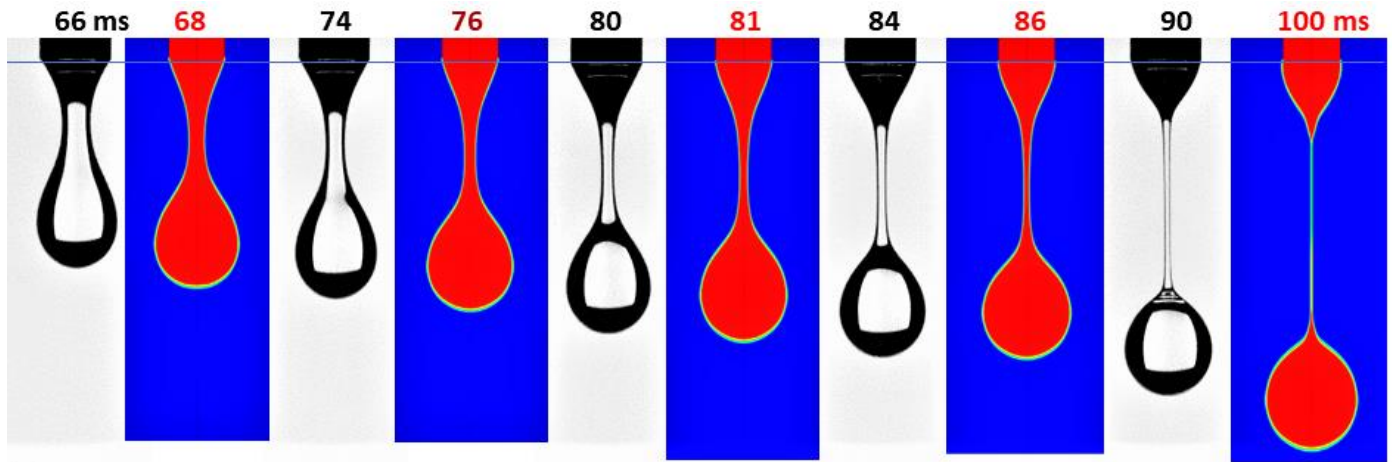


## Supplementary Information

### I. Correlation between experiments E1 and numerical simulation (complementary to Fig. 2)

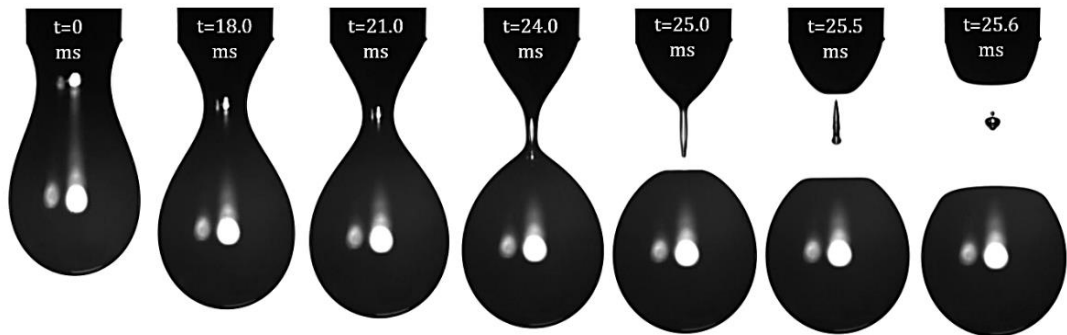


Comparison between experiment E1 and the numerical simulations.

### II. Experiments with different fluids (complementary to Fig. 2 and Fig. 4.b)

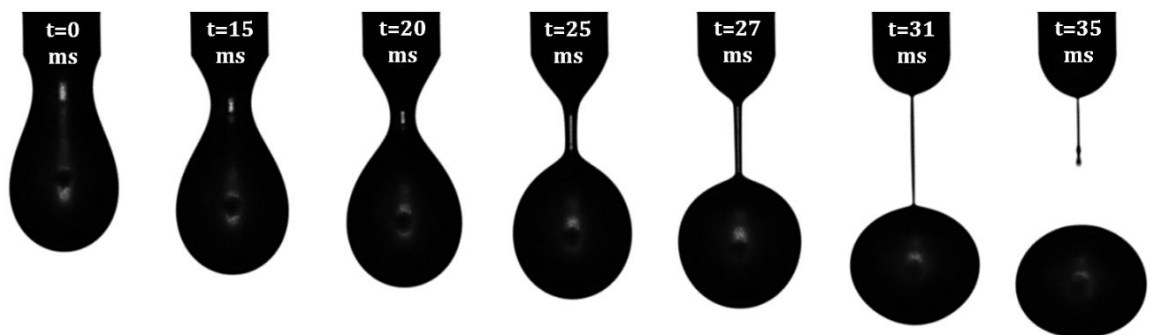
#### A. Water in air

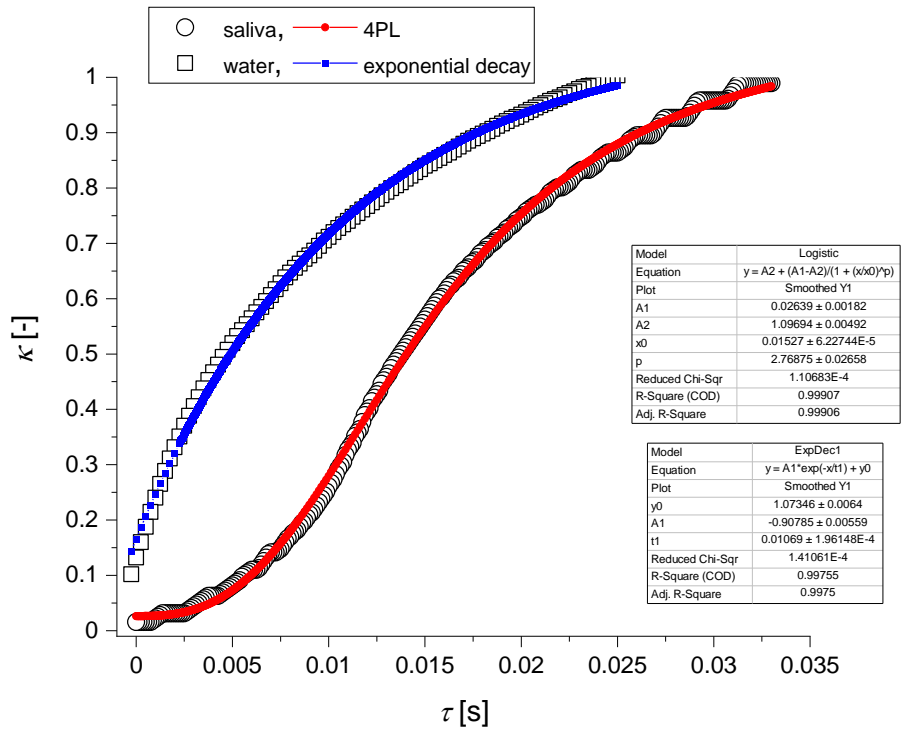
$$Oh_w \cong 0.0025$$



#### B. Saliva (viscoelastic fluid) in air

$$Oh_s \cong 0.08$$





Fitting of the experimental curves  $\kappa(\tau)$  for II.A and II.B visualizations.