

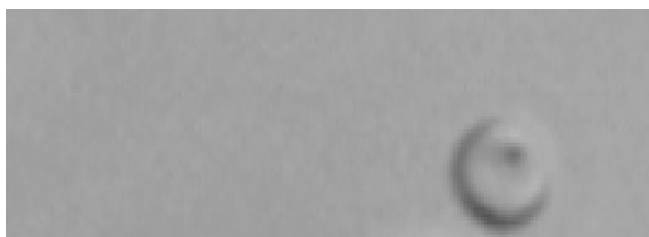
Supporting Information

Dupire et al. 10.1073/pnas.1210236109



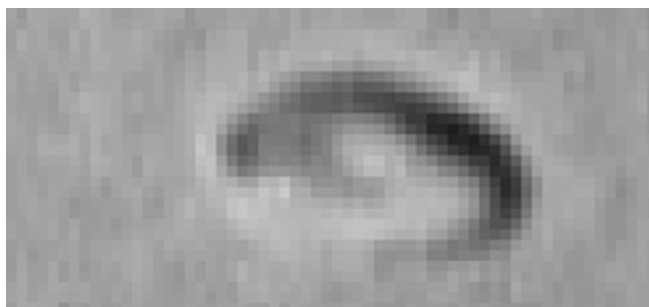
Movie S1. Evolution of the orientation of a red blood cell (RBC) with an increasing shear rate. In the movie, “s-1” stands for the shear rate dimension, $[s^{-1}]$. For each movie part, shear rate is equal, respectively, to $2 s^{-1}$, $4 s^{-1}$, $6 s^{-1}$, $8 s^{-1}$, $10 s^{-1}$, and $12 s^{-1}$. The movie corresponds to the sequences in Fig. 1B.

[Movie S1](#)



Movie S2. Tank-treading RBC with the rotation of a bead stuck to the membrane. Images in differential interference microscopy. In the movie, “s-1” stands for the shear rate dimension, $[s^{-1}]$. Shear rate is equal to $3 s^{-1}$. The movie corresponds to the sequences in Fig. 3A.

[Movie S2](#)



Movie S3. Rolling-to-tank-treading transition. Images are in phase contrast. In the movie, “s-1” stands for the shear rate dimension, $[s^{-1}]$. Shear rate is equal to $3 s^{-1}$. The movie corresponds to the sequences in Fig. 4A.

[Movie S3](#)

