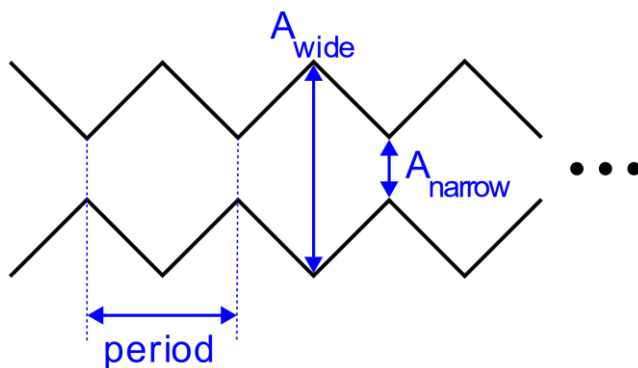


AI based image analysis of red blood cells in oscillating microchannels

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Supplemental Figure 1 The periodicity of the zigzag-channel is $L = 20 \mu\text{m}$ with amplitudes $A_{wide} = 20 \mu\text{m}$ and $A_{narrow} = 10 \mu\text{m}$. In total are 16 periods but only the first wide and narrow section of the oscillation of the first period is used

The Python code used in this study can be found at <https://doi.org/10.5281/zenodo.7789864>.

The python code which performs training, validation and testing on the RBC images. The main program is called "train.py" which can be started with "train.py -n" to use images in a narrow section or "train.py -w" on a wide section of the zigzag-shaped channel. The script will save the trained models, plots the training accuracy & loss and examples of cell classifications.