Supplementary Information:

High-speed Fourier ptychographic microscopy based on programmable annular illuminations

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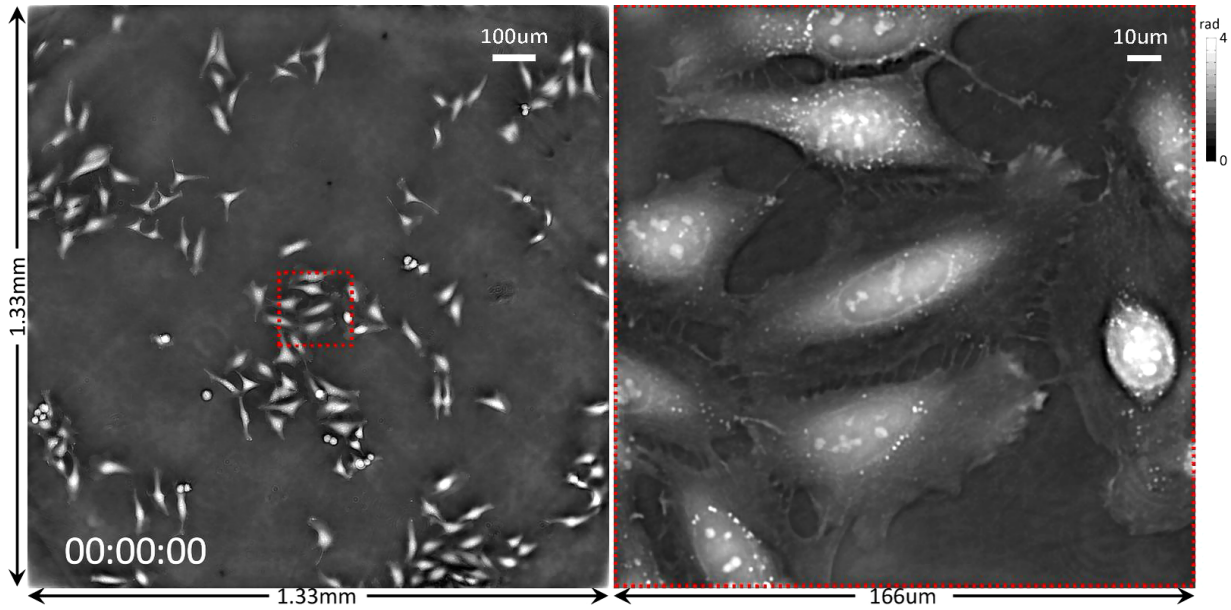
ABSTRACT

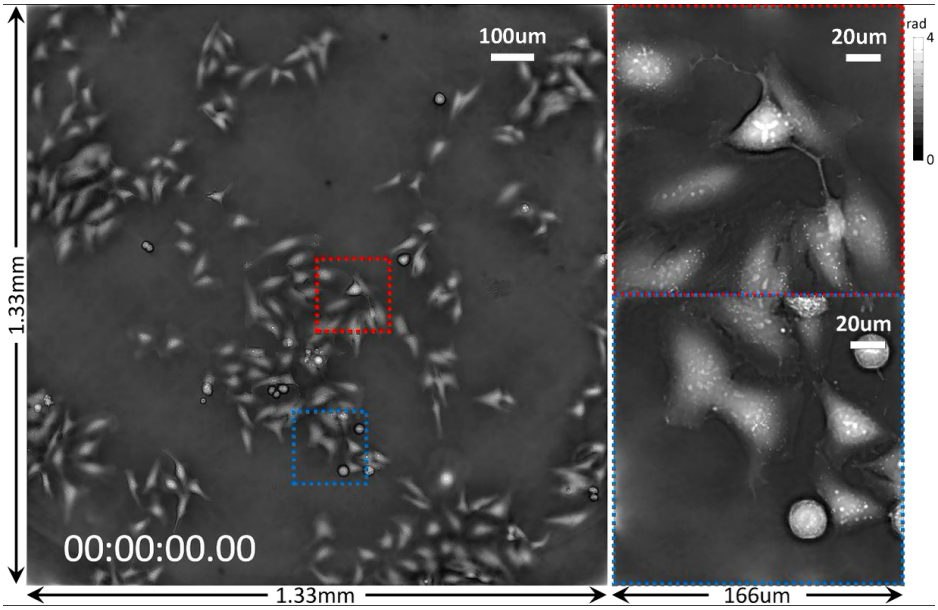
This document provides supplementary information for “High-speed Fourier ptychographic microscopy based on programmable annular illuminations”.

Contents:

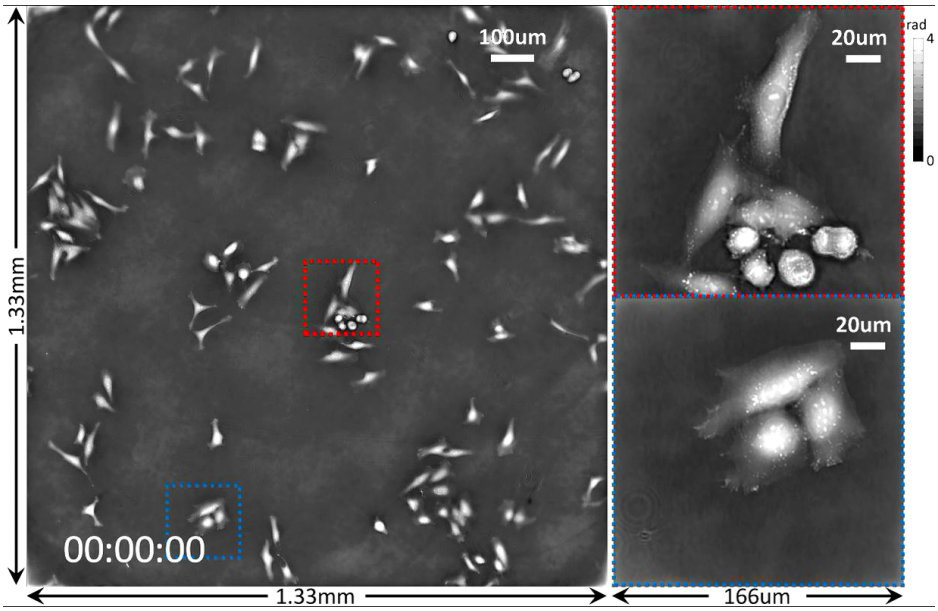
A. Supplementary Videos



Supplementary Video 1. Large SBP phase video of unstained HeLa cells under-going division over the course of 5 hours at 8.33 Hz frame rate (see also Figure 5).



Supplementary Video 2. Large SBP phase video captured with video-rate acquisition speed (25 Hz) for tracking dynamic subcellular features of unstained HeLa cells *in vitro* (see also Figure 6).



Supplementary Video 3. Long-term large SBP phase video of unstained HeLa cells over a long-term period of 51 hours at 2 minute intervals for analyzing the morphology and statistics quantitatively (see also Figure 7).