Supplementary Information

Cell mechanical properties of human breast carcinoma cells depend on temperature

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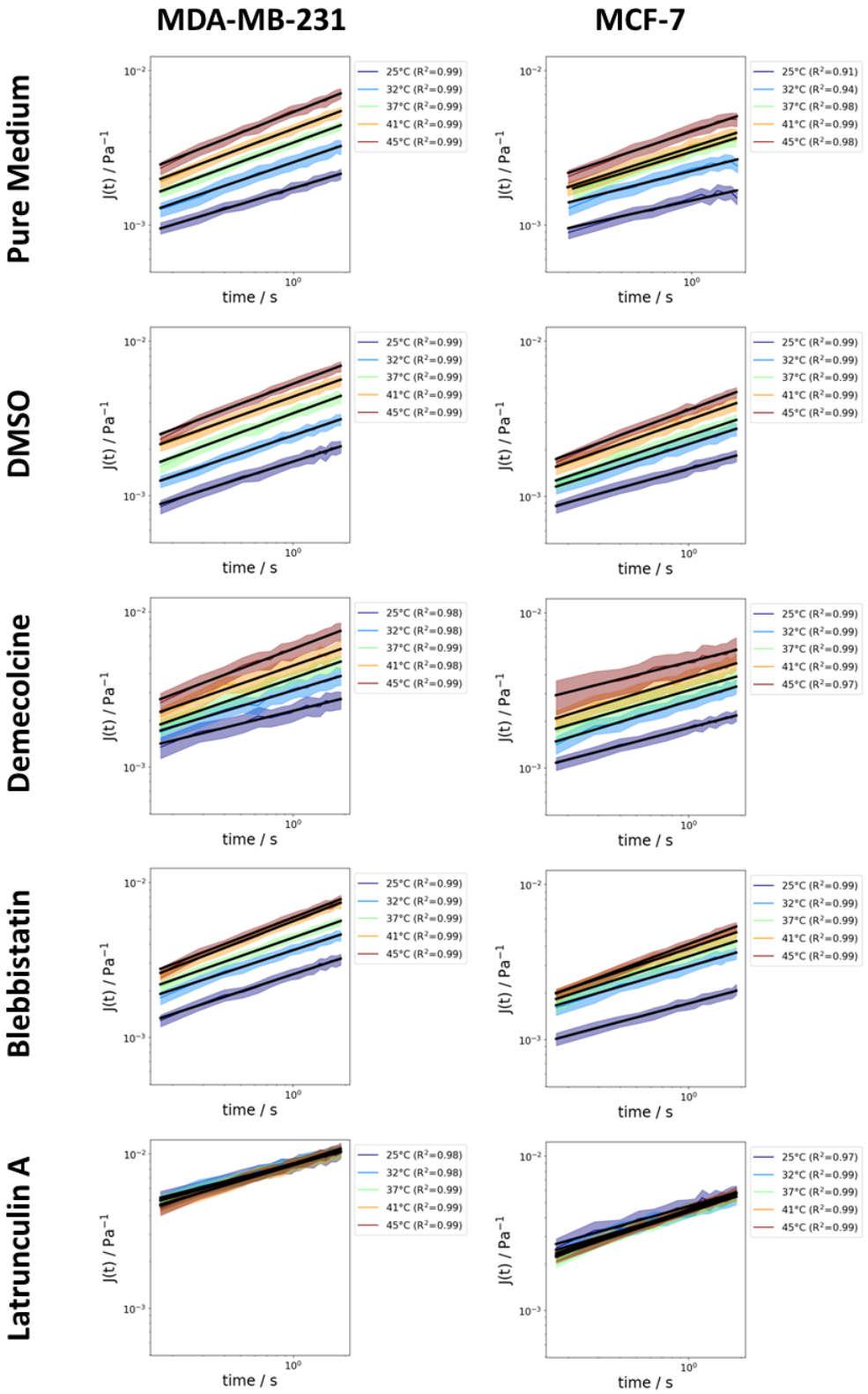
Supplementary Figure 1



Supplementary Figure 1: Creep compliance curves of MDA-MB-231 and MCF-7 cells in response to the application of a 1 nN force pulse. Curves are displayed in a double logarithmic scale and fitted with a weak power law. The goodness of the fit is given by R^2. The power law fits the experimental curves well for both breast cancer cell lines and all investigated pharmacological treatments, as evident from the high R^2-values.

Supplementary Video 1: Video of a representative MDA-MB-231 cell measured at the beginning of an experiment recorded at 25°C. The coupled bead moves in response to the application of a constant force of 1 nN. Scale bar is 10 μm.

Supplementary Video 2: Video of a representative MCF-7 cell measured at the beginning of an experiment recorded at 25°C. The coupled bead moves in response to the application of a constant force of 1 nN. Scale bar is 10 μm.

Supplementary Video 3: Video of a representative MDA-MB-231 cell measured at the end of an experiment taken at 25°C. The coupled bead moves in response to the application of a constant force of 1 nN. Scale bar is 10 μm.

Supplementary Video 4: Video of a representative MCF-7 cell measured at the end of an experiment taken at 25°C. The coupled bead moves in response to the application of a constant force of 1 nN. Scale bar is 10 μm.

Supplementary Video 5: Video of a representative MDA-MB-231 cell measured at the beginning of an experiment taken at 45°C. The coupled bead moves in response to the application of a constant force of 1 nN. Scale bar is 10 μm.

Supplementary Video 6: Video of a representative MCF-7 cell measured at the beginning of an experiment taken at 45°C. The coupled bead moves in response to the application of a constant force of 1 nN. Scale bar is 10 μm.

Supplementary Video 7: Video of a representative MDA-MB-231 cell measured at the end of an experiment taken at 45°C. The coupled bead moves in response to the application of a constant force of 1 nN. Scale bar is 10 μm.

Supplementary Video 8: Video of a representative MCF-7 cell measured at the end of an experiment taken at 45°C. The coupled bead moves in response to the application of a constant force of 1 nN. Scale bar is 10 μm.