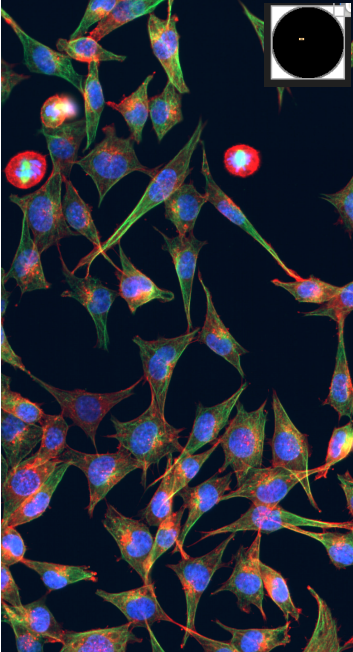# High-content cell cycle Inhibitor-studies (treatment for 3h; morphological screening)
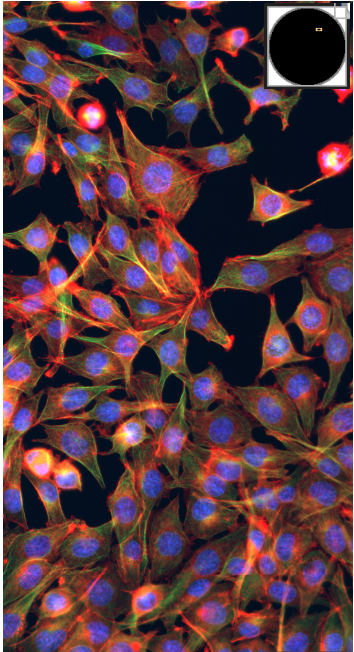
CHO-K1 with SiR-Actin, Tubulin + Alexa488 and Hoechst

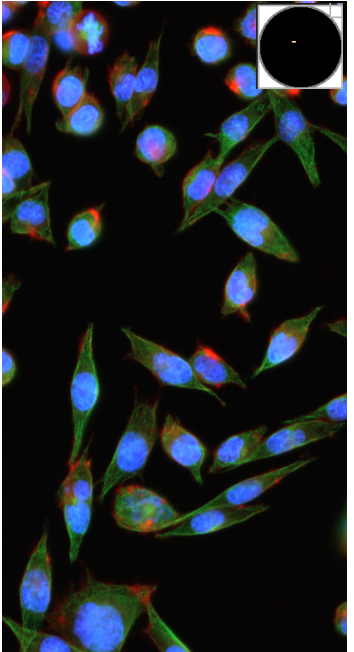| B6 PD0332991 (8 µM)	C6 RO-3306 (9 µM)	D6 Cytochalasin D (0.05 µM)	E6 Nocodazole (0.2 µM)	F6 control

CDK4/6 inhibitor arrests cell cycle in G1 before DNA synthesis after Mitosis
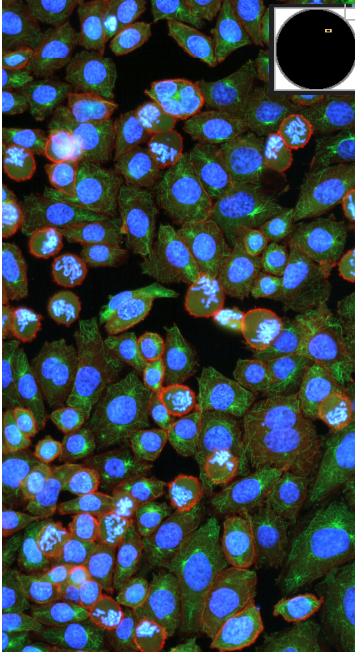
CDK1 inhibitor arrests cell cycle at the G2 to M transition, enriched in mitotic cells by release from RO-3306 block

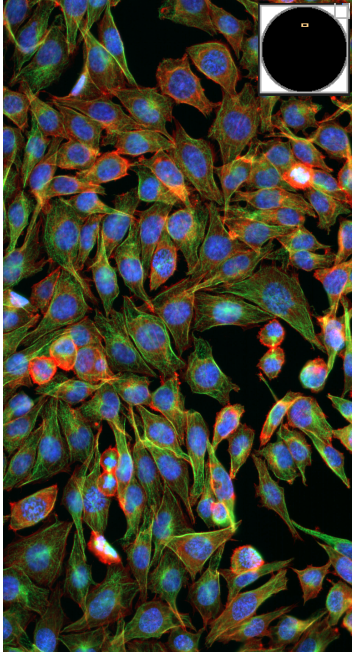Cytochalasin D inhibits actin polymerization and induces depolymerization

Nocodazole inhibits tubulin assembly of the spindle apparatus

- Images taken with 40x CELLAVISTA SCIENTIFIC
- 16bit sCMOS camera sensor
- Aherend CHO-K1-cells in 96-well high-content glas bottom imaging plates
- Immunocytochemistry (fixed cells)
- Tubulin-Antibody (green Alexa488, binds to mitotic spindle/spindle apparatur)
- Actin-Antibody (red; binds to cytoskeleton)
- Hoechst (blue; DNA-stain)

Tubulin
Actin
DNA