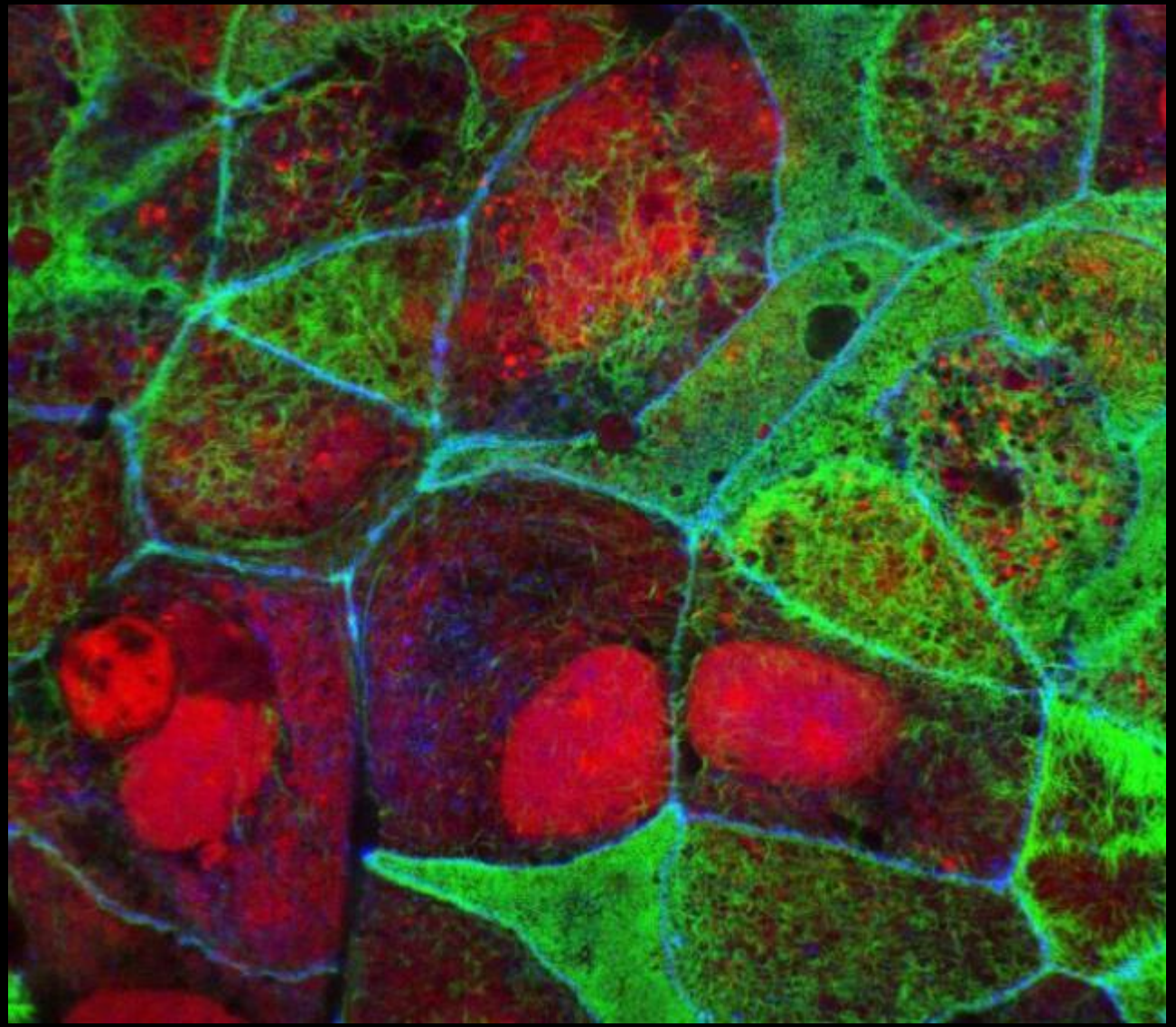
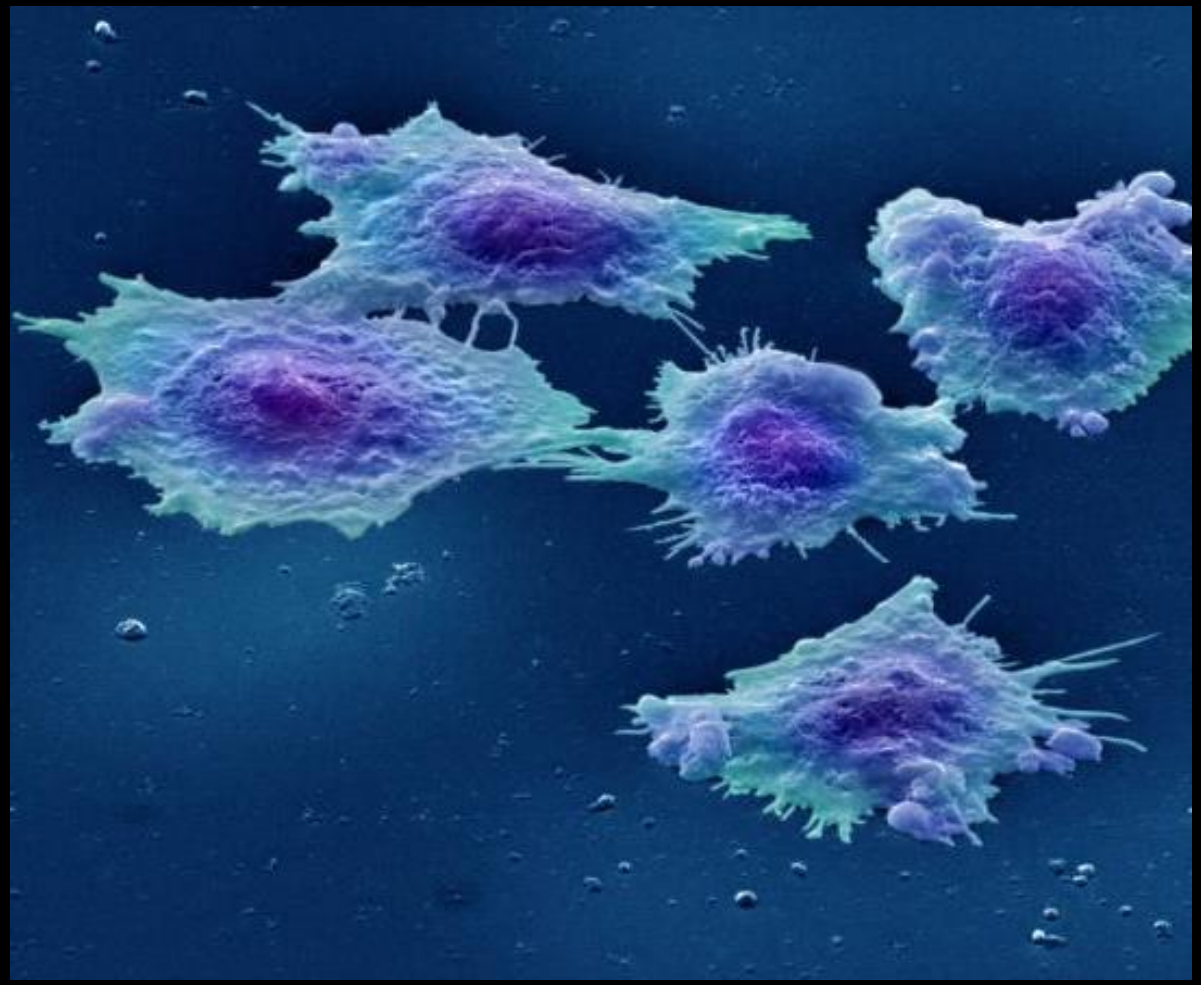
Cells: What can go wrong…



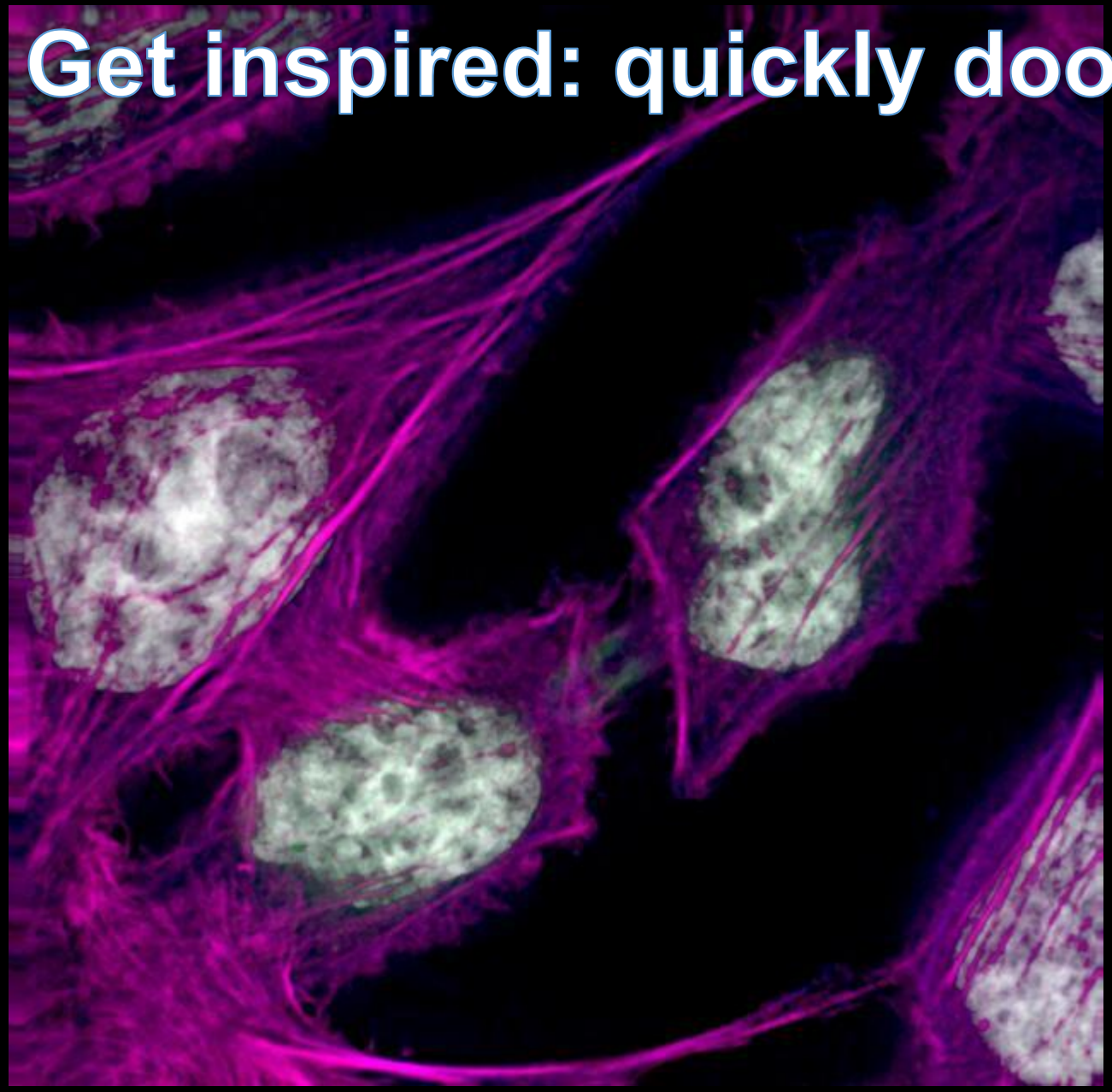
Human colon cancer cell line - S. Schuller



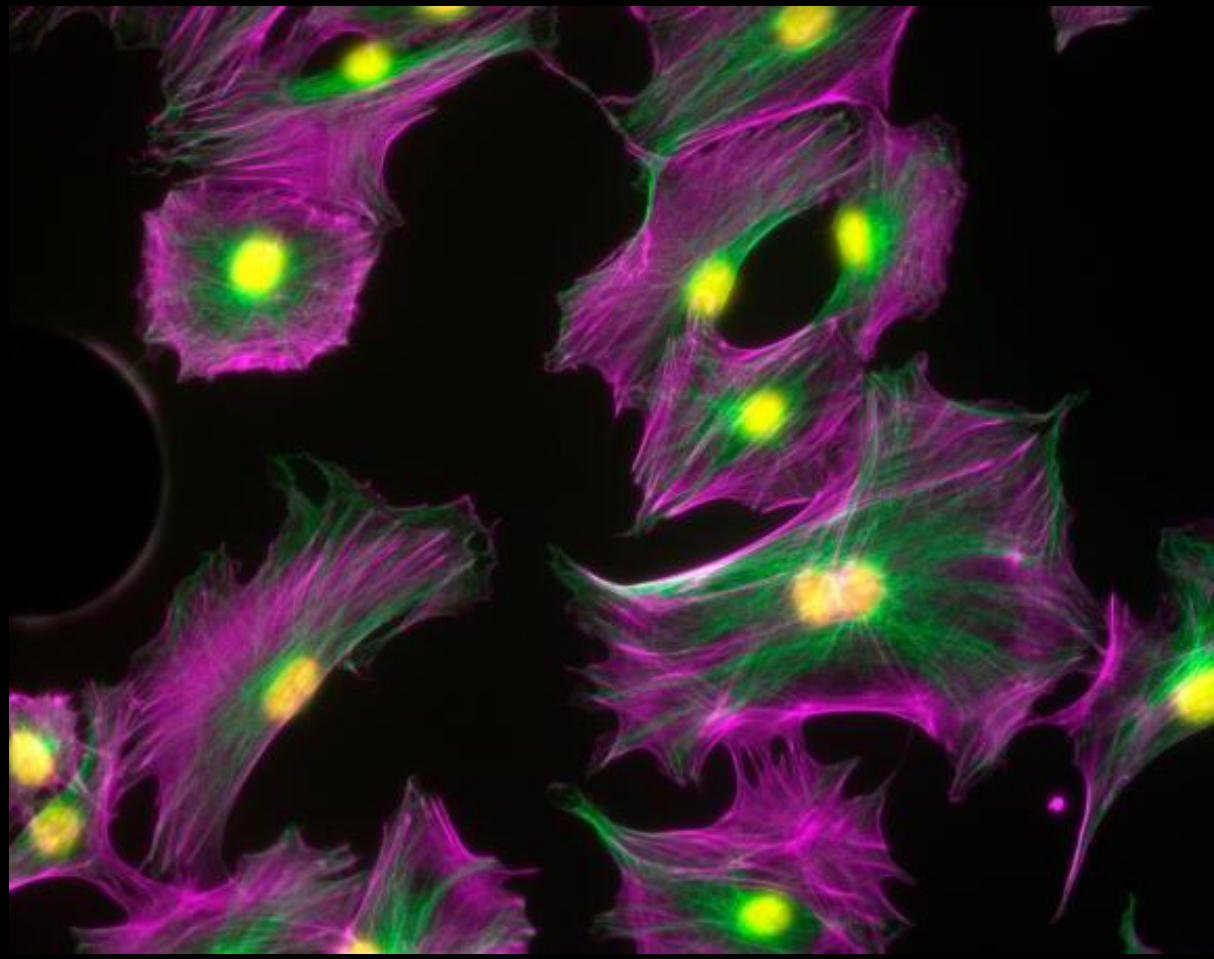
Human colon cancer cells - Annie Cavanagh

Microscope images:
Wellcome - CC BY 4.0

Get inspired: quickly doodle a colourful cell

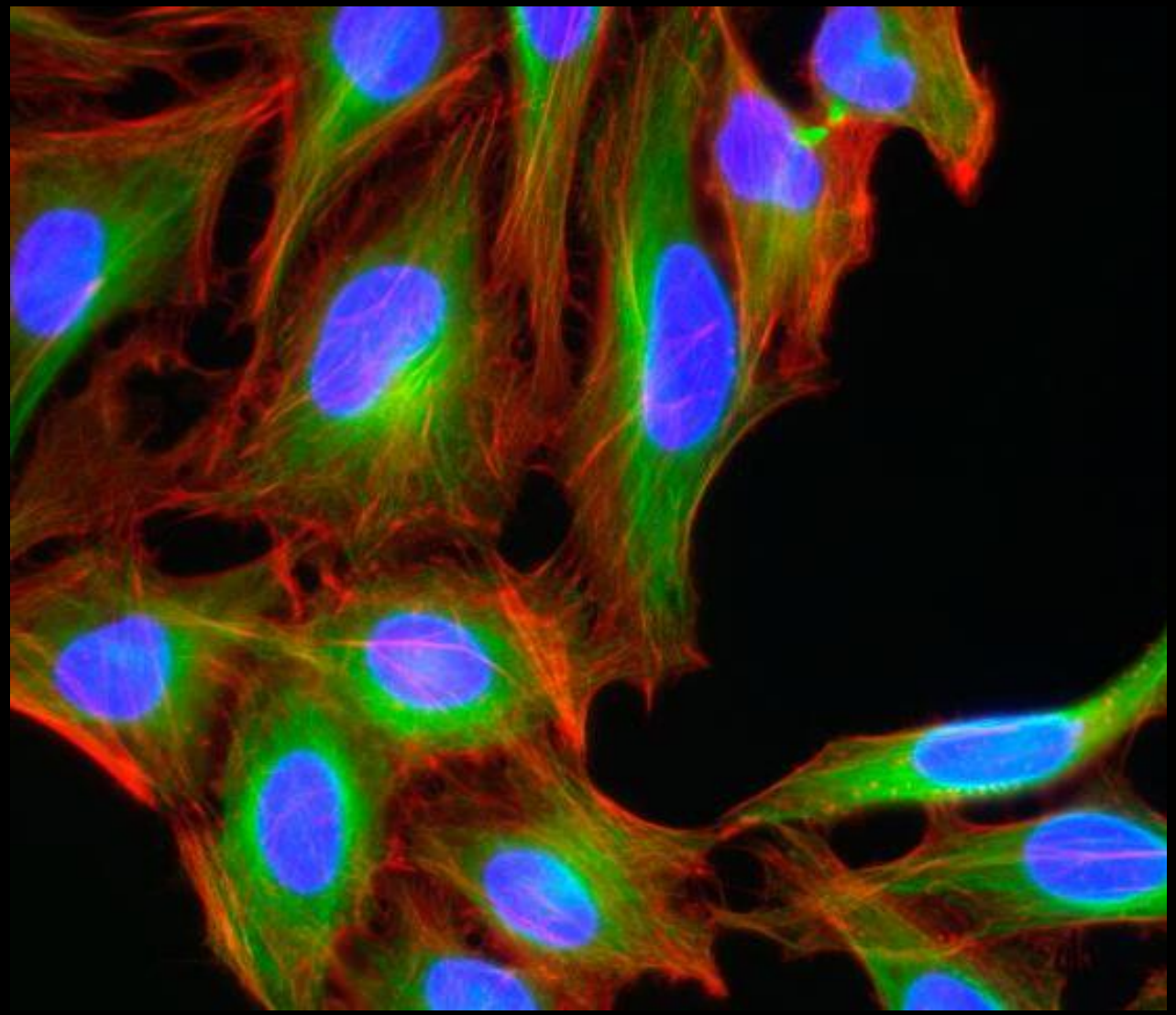


Human HeLa cancer cells, cytokinesis - Paul Andrews/Univ. Dundee

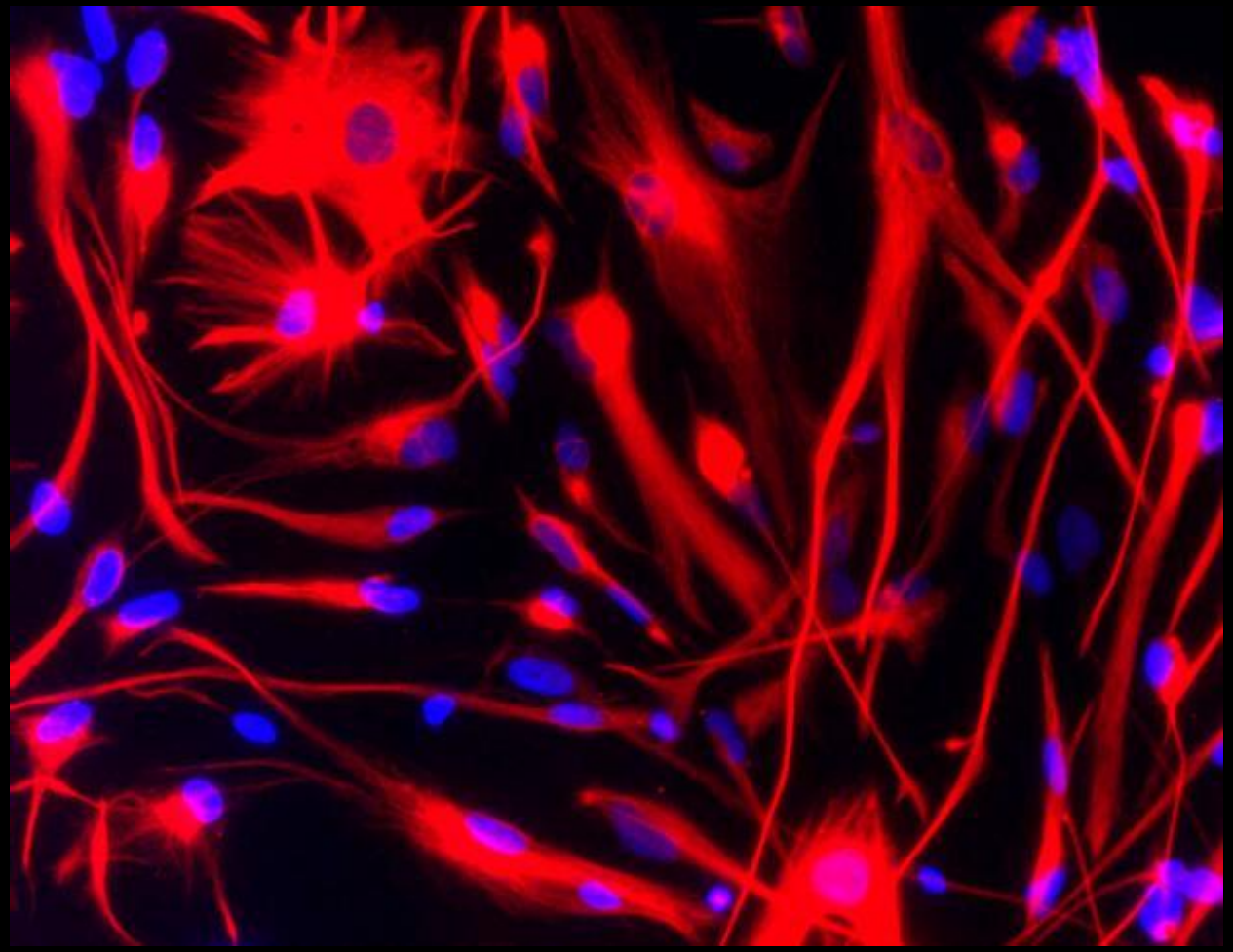


Osteoblasts - Kevin Mackenzie, University of Aberdeen

Are these colours found in cells?

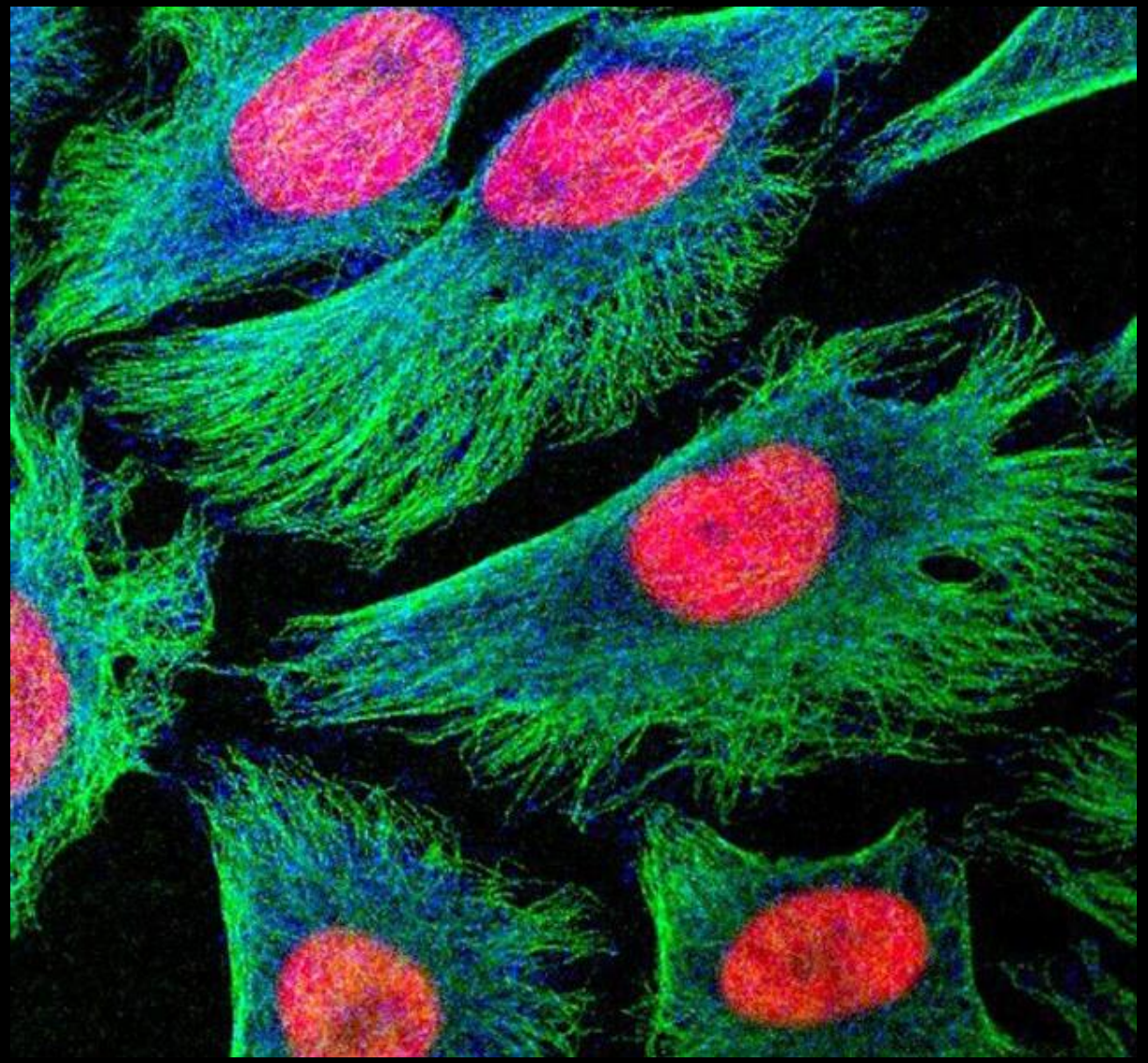


HeLa cells - Kevin Mackenzie, University of Aberdeen

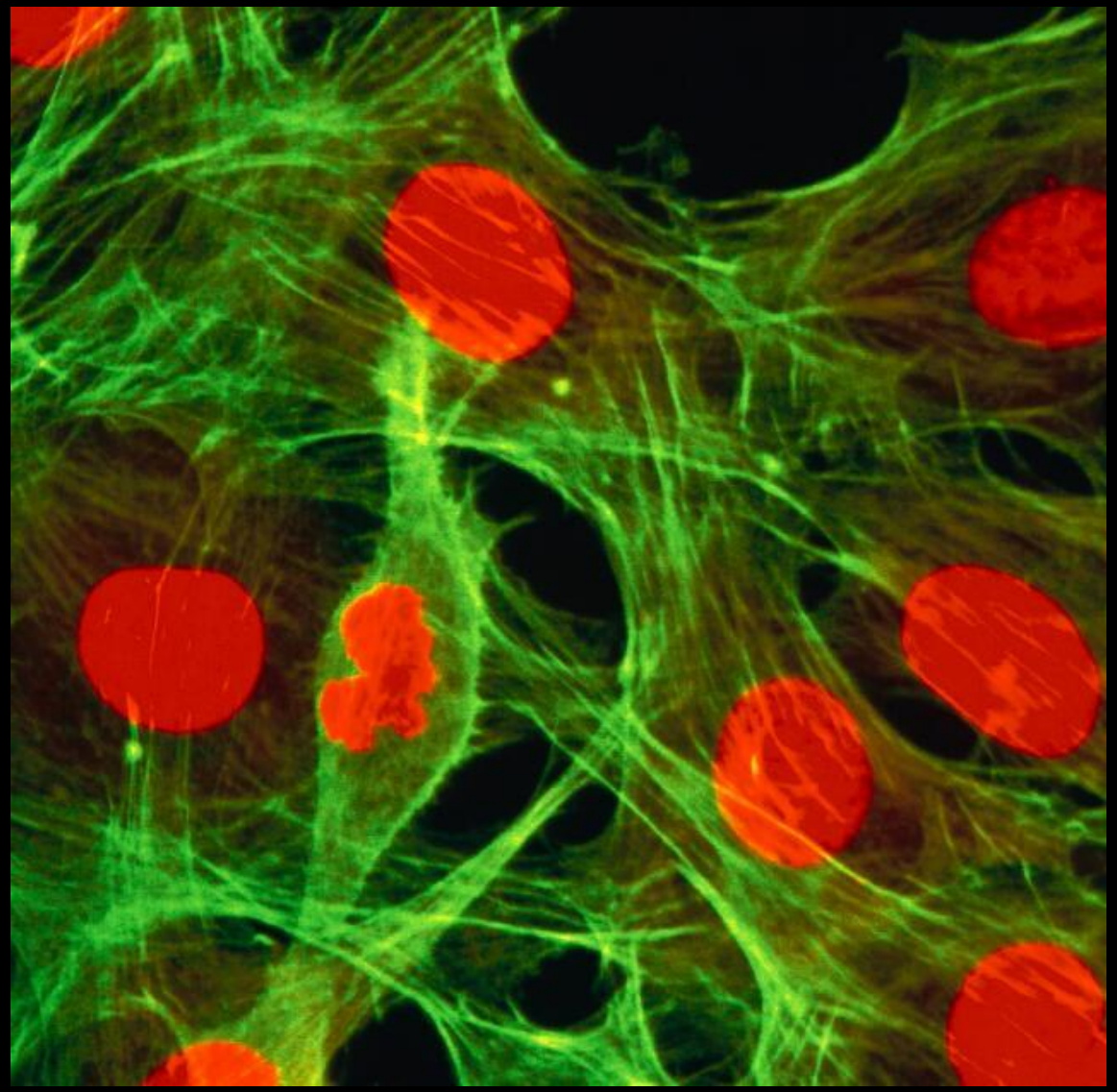


Brain cancer stem cells stained for vimentin (red) - Steven Pollard

Why might scientists add stains?

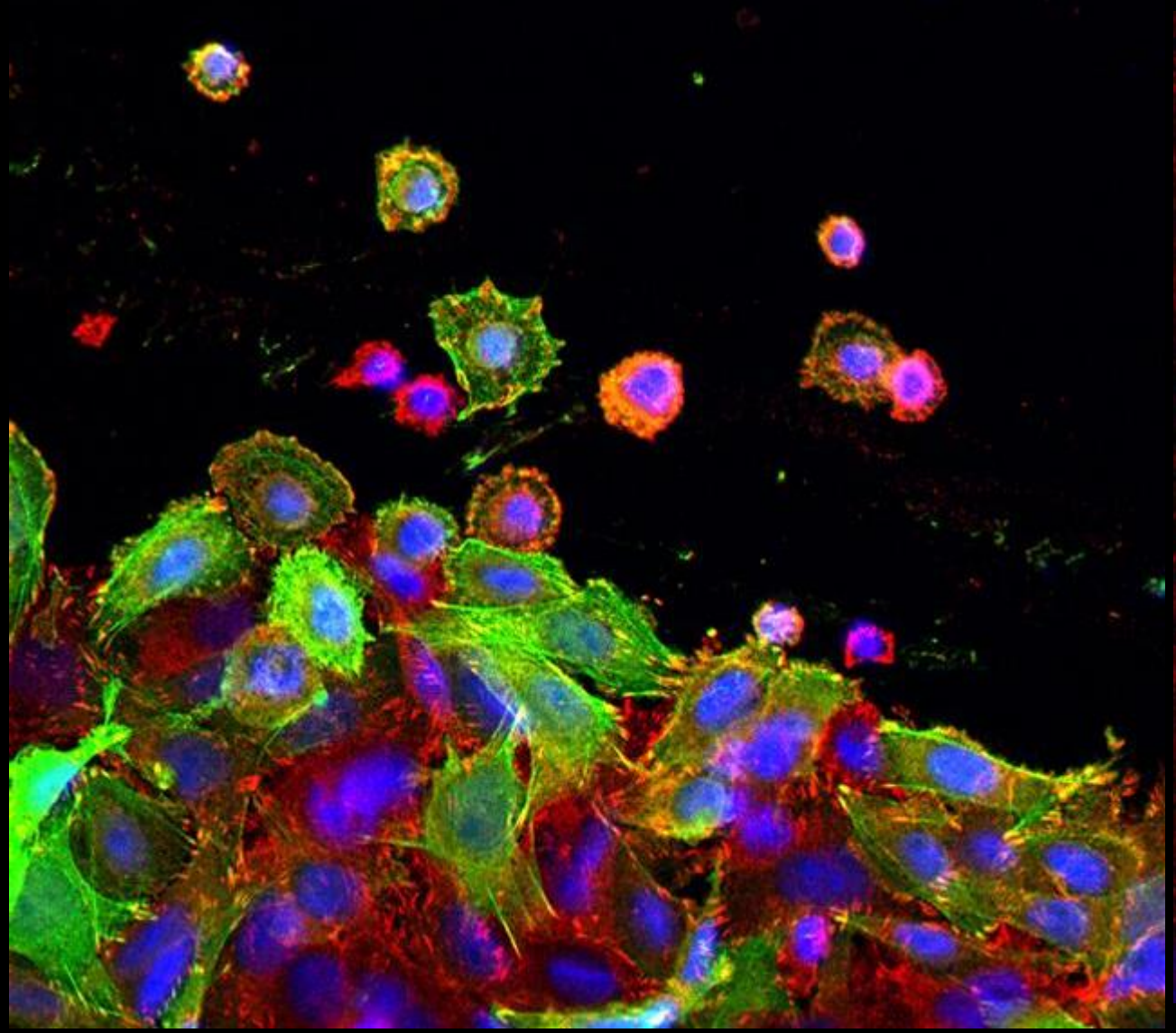


Human cancer cells in culture - Matthew Daniels

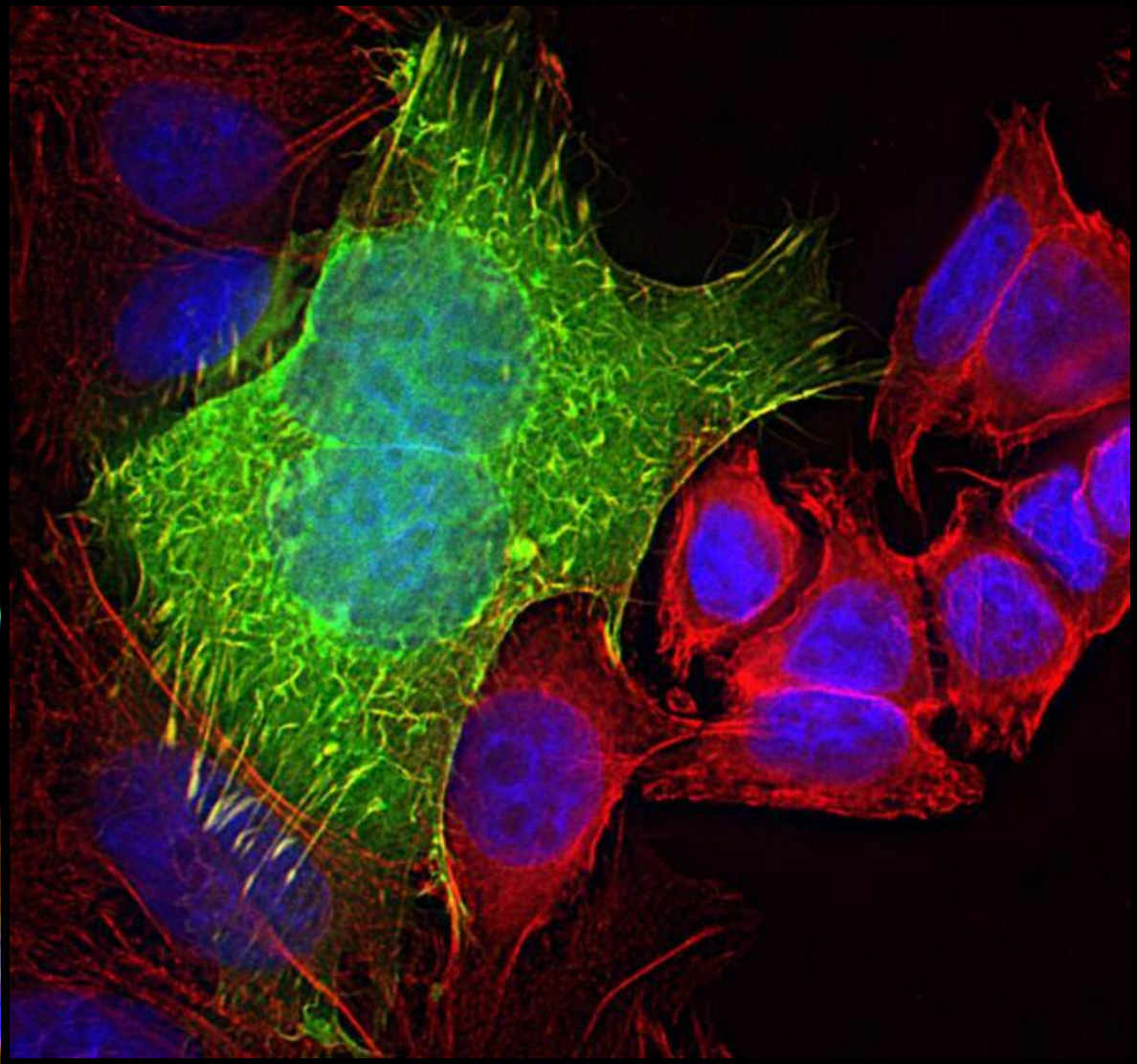


Dividing fibroblasts showing actin and DNA - Kate Whitley

Mutations can allow some cells to grow too well…



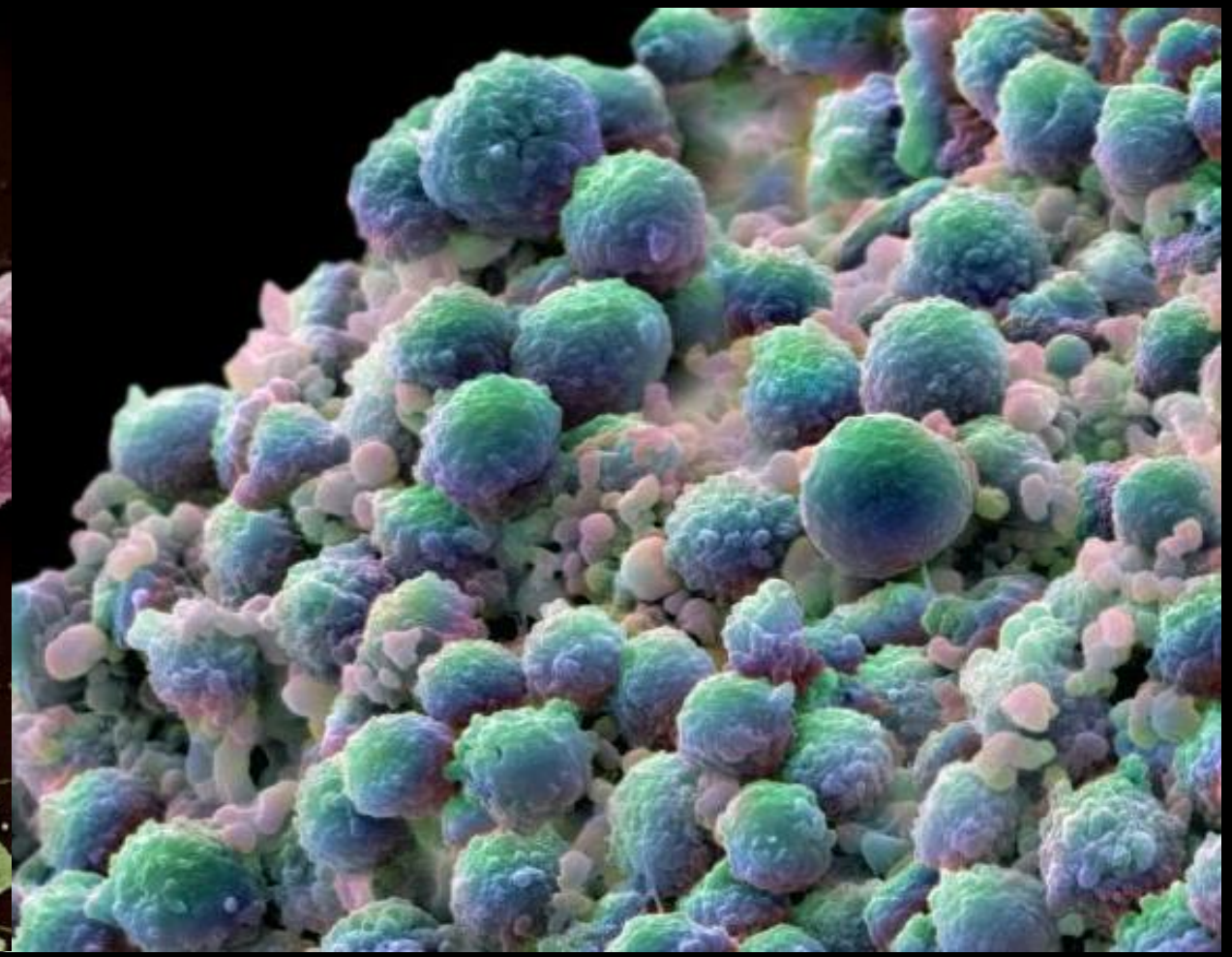
Colon cancer cells - Lorna McInroy



They could spread...

Cancer cells divide quickly and can vary in size

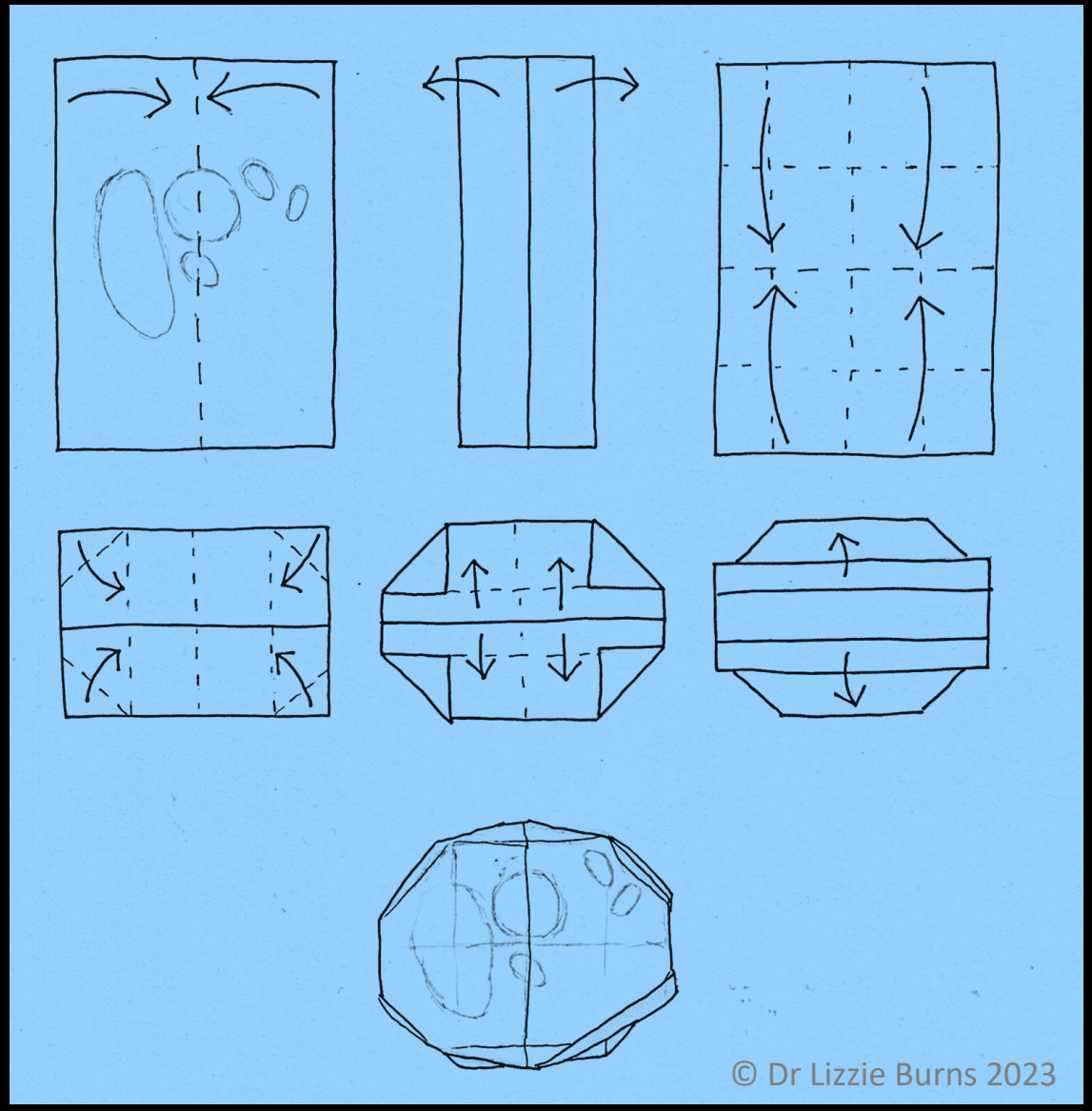
Lung cancer cells - Anne Weston, Francis Crick Institute



Prostate cancer cells - Annie Cavanagh

There are lots of ways to treat cancer: chemicals, radiation and surgery

Fold up your colourful cell to become 3D…



Make lots of cells quickly…