## **The early prophase index assay: Tailored for checkpoint analysis.** Hanna Dworaczek, Parker L. Andersen, Wei Xiao

Cancer is a disease caused by defects in our genes. CHFR is a tumour suppressor gene, which is frequently inactivated in cancer cells. Induced by mitotic stress in the form of microtubule damage, the CHFR checkpoint pathway delays entry into mitosis by delaying the early prophase-to-late prophase transition, thereby protecting cells from chromosome miss-segregation and genomic instability. In spite of its potential significance to cancer research, the molecular mechanism by which CHFR functions remains obscure. One way to gain a more vivid glimpse into the molecular mechanism by which CHFR functions, is to develop an effective method of detecting its activity.