

## **A Simple and Obvious (in Retrospect) Method for Microscopy Imaging of G-protein Signaling**

The living cell is a self-replicating, information processing machine.

In order to understand how individual cells and multicellular organisms function, we need to be able to observe molecular processes of cell signaling - with high molecular specificity, high spatial and temporal resolution, and under conditions as close to natural as possible. Here we present a novel design of genetically encoded fluorescent probes that allow sensitive observations of a wide variety of molecular events of cell signaling, including GPCR and G protein activation, under conditions close to natural.