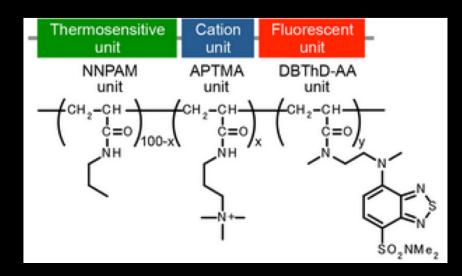
## Fluorescence Lifetime Imaging (FLIM) FALCON SP8



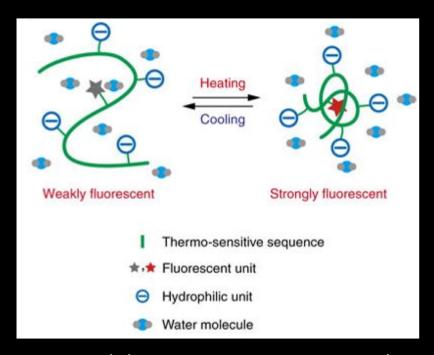
Fluorescent life time gives us more specific image than fluorescent intensity

## Fluorescence polymeric thermometer (FPT) for Intracellular temperature mapping

- Temperature distributions inside a living cell reflect the thermodynamics and functions of cellular components
- Cellular pathogenesis of diseases is characterized by extraordinary heat production
- Therefore mapping of temperature in cells is important to better understand cellular events

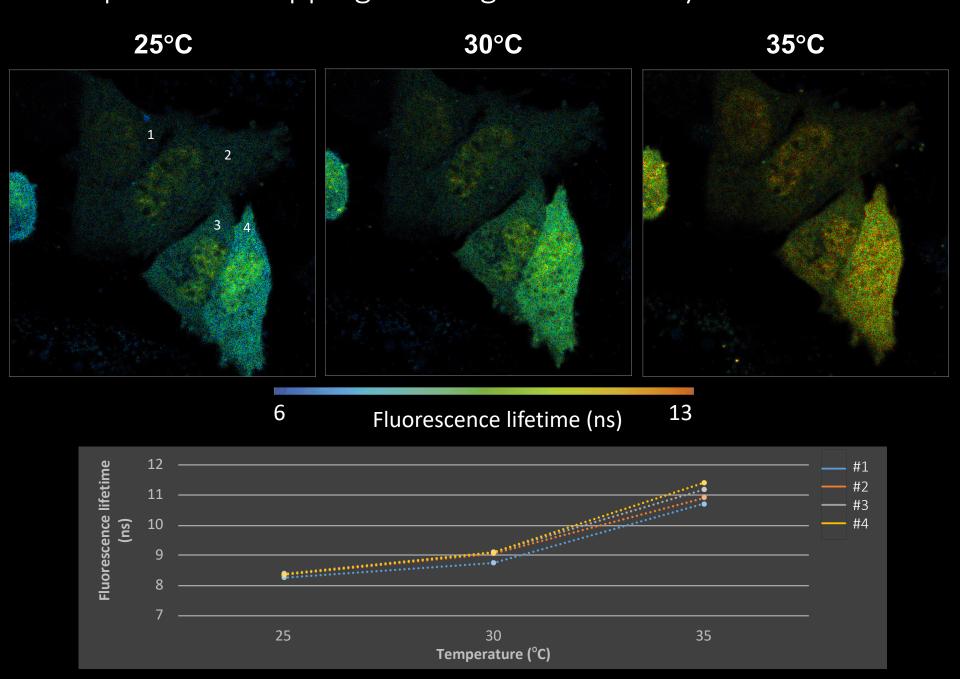


Chemical structure of the cell-permeable fluorescent polymeric thermometer (FPT)



Functional diagram in an aqueous medium

Temperature mapping of living HeLa cells by FLIM with FPT



Local temperature differences in a cell

