

## Stellingen

behorende bij het proefschrift

### Quantitative Fluorescence Microscopy of Protein Dynamics in Living Cells

Shehu Mustapha Ibrahim

1. Blinking of GFP molecules is measurable in bulk samples by variation of excitation laser intensity.

*this thesis*

2. FCS is better suited for studying the mobility of intracellular proteins, whereas FRAP is better suited to determine their immobilisation.

*this thesis*

3. Androgen receptors frequently interact very transiently with DNA, and only stably bind when encountering specific recognition sites in the DNA.

*this thesis*

4. Binding of EGF to its receptor appears to cause the attachment of the receptors to slowly moving or stationary molecular structures such as to the underlying cytoskeleton or larger, pre-formed receptor aggregates.

*this thesis*

5. IL-2 receptor  $\alpha$  subunits form submicron clusters and co-cluster with HLA and CD48 and are associated with lipid rafts in human T lymphoma cells.

*this thesis*

6. The danger in human-animal chimeras is the potential for humanising animals and *vice versa*.

7. The atom, being for all practical purposes the stable unit of the physical plane, is a constantly changing vortex of reactions.

*Kabbalah*

8. The high neutron scattering cross-section of hydrogen makes the proton recoil method a simple and sensitive non-destructive method of determining the hydrogen content of organic matter.

*Ibrahim et al., J. Radioanal. Nucl. Chem 237(1-2):167-170, 1998*

9. A life in science is often a nomadic existence.

*Laura Layton*

10. If you are out to describe the truth, leave elegance to the tailor.

*Albert Einstein*

11. One who understands his own history is likely not to be afflicted by superiority complex.