



Single Molecules

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Message from the Guest Editors

Dear Colleagues,

With increasing sensitivity of optical detection systems single molecule measurements have gained considerable importance. Single molecules and ultra-weak fluorescence signals are now measured reliably in liquids, solids and biological systems upon selective excitation of thin layers by confocal, optical near field or evanescent wave excitation. Ultra-sensitive video detection, photon counting or correlation techniques are used to measure stationary or dynamic molecular events, whereas Förster resonance energy transfer (FRET) is used to probe intermolecular interactions. Contributions to this special issue may be dedicated to these or related techniques, including applications to fluorescent dyes, nano-beads, fluorescent proteins or further biomolecules with a diagnostic or analytical potential.

Herbert Schneckenburger
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Message from the Editor-in-Chief

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