



## Förster Resonance Energy Transfer (FRET)

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

Förster resonance energy transfer (FRET) describes a non-radiative transfer of excitation energy from a donor to an acceptor molecule in the nanometre range. Although biological systems, e.g. photosynthetic organisms, have been using this mechanism for millions of years, it lasted until 1946, when Th. Förster described it theoretically. With the wide-spread use of fluorescent proteins in cell biology since the 1990's, FRET experiments gained considerable importance for measurements of molecular conformations or interactions, even down to the single molecule level. This special volume is dedicated to the principles and applications of FRET ranging from model systems to living organisms.

Prof. Dr. Herbert Schneckenburger  
*Guest Editor*





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