

## Special Issue

# Förster Resonance Energy Transfer (FRET)

### Message from the Guest Editor

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.

---

### Guest Editor

Prof. Dr. Herbert Schneckenburger  
Institute of Applied Research, Aalen University, Beethovenstr. 1, 73430  
Aalen, Germany

---

### Deadline for manuscript submissions

closed (30 September 2012)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/1672](http://mdpi.com/si/1672)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
ijms@mdpi.com

[mdpi.com/journal/  
ijms](http://mdpi.com/journal/ijms)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)



## About the Journal

### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

---

### Editor-in-Chief

Prof. Dr. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)