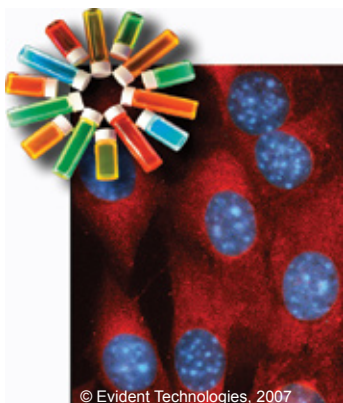


## CALL FOR PAPERS

Special Edition on:

**“Quantum dots: From synthesis to applications in Biomedicine and Life Sciences”**



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### Edition Editor

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The introduction of Quantum Dots for research purposes has significantly contributed to our understanding of various fundamental questions and phenomena in Biomedicine and Life Sciences and comprises a rapidly developing field of science. Novel synthesis methods have provided a wide spectrum of Quantum Dots and related Nano-crystals and are now utilized in various biomedical applications, such as fluorescence microscopy, correlation spectroscopy, single-cell biochemistry, flow cytometry, DNA and protein arrays, immunoassays, cyto- and histochemistry, in situ hybridization, PCR, and Drug screening in a high throughput setting.

This special edition of the International Journal of Molecular Sciences focuses on high quality research papers, methodological papers, reviews or mini-reviews with regard to Synthesis, Biomedical-, and Life Science applications of Quantum Dots. In addition, purely educational papers from which students and researchers may benefit are very welcome. Previously unpublished original experimental and review papers are petitioned for regarding the following and related topics:

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- Synthesis of Nanocrystals/Quantum Dots
- Fundamental properties of Quantum Dots
- Cytotoxicity and Biocompatibility

#### Instrumentation

- New developments in instrumentation and automation

#### Applications in Life sciences and Biomedicine

- Live cell imaging
- Biomolecular sensing
- Applications of Quantum dots in Cell Biology
- Applications of Quantum Dots in disease diagnosis and therapy
- Other applications in Biomedicine

#### Methodology

- In depth “How to” papers

#### Education

- When and how to use Quantum Dots for research purposes
- Basic information for undergraduate, graduate, M.Phil, PhD students
- Other educational topics

Pre-submission inquiries are welcomed and should be send to [drummen@mdpi.org](mailto:drummen@mdpi.org)

Authors are requested to stringently follow the journal's manuscript format as denoted in the guide to authors. Instructions for authors may be found at <http://www.mdpi.org/ijms/publguid.htm> Our aim is to encourage scientists to publish their theoretical and experimental results in as much detail as possible, which enhances reproducibility.

A rigorous peer review process will be maintained for this special edition to ensure the highest possible scientific standard.

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- Abstract pre-submission is welcome
- Submission deadline 1st of July 2008
- Peer review starts immediately upon receipt
- Publication: Immediate