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The Journal of Biomedical Optics (JBO) publishes peer-reviewed papers on the use of novel optical systems and techniques for improved health care and biomedical research.

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Microscopy is the technical field of using microscopes to view objects and areas of objects that cannot be seen with the naked eye (objects that are not within the resolution range of the normal eye). There are three well-known branches of microscopy: optical, electron, and scanning probe microscopy, along with the emerging field of X-ray microscopy. ...

Microscopy - Wikipedia

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Time-lapse microscopy is time-lapse photography applied to microscopy. Microscope image sequences are recorded and then viewed at a greater speed to give an accelerated view of the microscopic process.

Time-lapse microscopy - Wikipedia

Deep learning algorithms, in particular convolutional networks, have rapidly become a methodology of choice for analyzing medical images. This paper reviews the major deep learning concepts pertinent to medical image analysis and summarizes over 300 contributions to the field, most of which appeared in the last year.

A survey on deep learning in medical image analysis

Ultrafiltration (UF) is one of the best options for both one-stage and as part of multi-stage water and wastewater purification. This review summarises the known facts about the fouling processes and cleaning procedures and details of the most successful physical and chemical cleaning combinations.

Fouling and cleaning of ultrafiltration membranes: A

Preparation of Bioconjugated Quantum Dots. High quality core/shell QDs are most often made by using hot colloidal synthesis, which leaves their surface coated with hydrophobic moieties (e.g. trioctylphosphine oxide (TOPO), oleic acid, and/or trioctylphosphine (TOP)), that prohibit their dispersion in biological fluids.

Preparation of Quantum Dot/Drug Nanoparticle Formulations

Professor Jos  Antonio Carrillo Imperial College London (United Kingdom) Born in Granada, Spain, in 1969. He obtained a Ph. D. degree in Mathematics at Universidad de Granada in 1996 and he held assistant and associate professor positions there during 1992-1998 and 2000-2003.

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I currently supervise 1 PhD student and am an associate supervisor of 2 more. I also supervise 2 honours students each year. These projects involve a diverse range of topics in human and basic psychopharmacology.

Professor Iain McGregor - The University of Sydney

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