



Technical Advances in Light Microscopy

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Message from the Guest Editor

Dear Colleagues,

The different imaging modalities such as confocal, multiphoton, light sheet, or super-resolution can be collectively called advanced light microscopy technologies. Each technique has specific advantages and drawbacks that appeal to different researchers, depending on their specific applications and needs.

Despite the latest efforts, biomedical researchers are still looking for novel ways for visualising organisms, tissues, cells and subcellular components. In each case, higher resolutions, larger fields of view and penetration depths, faster imaging speeds, higher signal to noise ratios and better sensitivities, etc. keep to be sought. To address these issues, a multi-disciplinary cutting-edge research effort is necessary. This should combine different scientific disciplines such as optics and photonics, engineering, medicine, chemistry and mathematics.

In this Special Issue on “Technical Advances in Light Microscopy”, we welcome original research and review articles dealing with novel technical implementations in light microscopy used to tackle important bio-medical questions.

Dr. Pablo Loza-Alvarez
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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