

Advances and Application of Super-resolution Optical Microscopy

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Message from the Guest Editors

Dear Colleagues,

Over the past two decades, super-resolution microscopy techniques made their way from highly specialized laboratories to turn-key commercial systems widespread through research facilities. A multitude of novel approaches have been developed to improve performances and make advanced optical microscopes flexible for diverse biological applications and more accessible to general users. However, high-resolution techniques still require specialized knowledge from the user side to properly address biological problems of interest.

With this issue, we are aiming to reduce the gap between microscopy developers and day-to-day users. We will focus on tips and tricks from sample preparation to image acquisition, quality control, data processing and analysis to achieve the best performances and accurate results. This Special Issue targets to gather recent advances in super-resolution microscopy together with its biological applications paving the way to complex biological studies at an unseen level of information.

