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Understanding the Host/Microbe–Microbe Interactions in Human Diseases: From Imaging Technologies to Multi-omics Approaches

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Message from the Guest Editor

Optical imaging plays a crucial role in unraveling the intricate dynamics of host–microbe and microbe–microbe interactions. By employing various optical modalities such as fluorescence microscopy, confocal microscopy, super-resolution microscopy, and nonlinear label-free chemical imaging, researchers can delve into the spatial and temporal aspects of these interactions with remarkable precision. Optical imaging enables the observation of cellular and subcellular events, allowing scientists to track the movement, adhesion, and communication between host cells and microbes or among different microorganisms. This powerful tool not only enhances our understanding of the molecular mechanisms governing these interactions but also facilitates the development of targeted interventions and therapies to modulate host–microbe relationships or control microbial communities. Overall, optical imaging serves as an indispensable tool in the study of host/microbe–microbe interactions, providing invaluable insights that contribute to advancements in microbiology and immunology.



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Special Issue



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