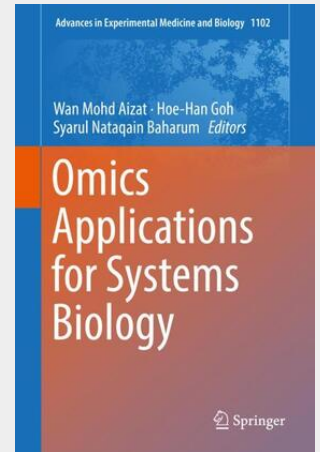


Omics Applications for Systems Biology

This book explains omics at the most basic level, including how this new concept can be properly utilized in molecular and systems biology research. Most reviews and books on this topic have mainly focused on the technicalities and complexity of each omics' platform, impeding readers to wholly understand its fundamentals and applications. This book tackles such gap and will be most beneficial to novice in this area, university students and even researchers. Basic workflow and practical guidance in each omics are also described, such that scientists can properly design their experimentation effectively. Furthermore, how each omics platform has been conducted in our institute (INBIOSIS) is also detailed, a comprehensive example on this topic to further enhance readers' understanding. The contributors of each chapter have utilized the platforms in various manner within their own research and beyond. The contributors have also been interactively integrated and combined these different omics approaches in their research, being able to systematically write each chapter with the conscious knowledge of other inter-relating topics of omics. The potential readers and audience of this book can come from undergraduate and postgraduate students who wish to extend their comprehension in the topics of molecular biology and big data analysis using omics platforms. Furthermore, researchers and scientists whom may have expertise in basic molecular biology can extend their experimentation using the omics technologies and workflow outlined in this book, benefiting their research in the long run.

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