

Structural Biology Response to Biomedical Threats

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Structural information is the quintessential prerequisite for structural-guided drug discovery. However, accurate structural information is only a piece of information necessary to understand the big picture of medical disorders. To provide a rapid response to emerging biomedical challenges and threats like COVID-19, we need to analyze medical data in the context of other in-vitro and in-vivo experimental results. This approach may revolutionize drug discovery, albeit only when these data are combined and analyzed with effective data management framework like Advanced Information System proposed in 2017. The recently published virusMED system is a blueprint for Advanced Information Systems.