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structural biology as defined by the journal of structural biology deals with structural analysis of living material formed composed of and or maintained and refined by living cells at every level of organization structural biology is an attempt to answer the question what are we made of this attempt follows the reductionist approach which aims to identify the most fundamental constituents of matter and study their properties structural biology is the study of the molecular structure and dynamics of biological macromolecules particularly proteins and nucleic acids and how alterations in their structures structure determination itself is only the first step in the science of structural biology which seeks to use structure as a basis to derive insights and hypotheses regarding biological structural biology provides three dimensional information on the molecular architecture of biological macromolecules proteins nucleic acids and their complexes it seeks to understand the molecular details of their formation actions and functions through techniques like cryo electron microscopy x ray crystallography and nmr spectroscopy journal of structural biology jsb publishes papers dealing with the experimental structural analysis of living material at every level of organization by all methods that lead to an understanding of biological function in terms of molecular and supramolecular structure structural biology employs a variety of techniques such as x ray crystallography nuclear magnetic resonance spectroscopy cryo electron microscopy cryo em small angle x ray scattering and computer modelling to determine the 3d structure of biological macromolecules at the atomic level structural biology has rested on the credo that knowledge of structure is key to understanding function and mechanism in practice structure provides only hints about these elements structural biology is an attempt to answer the question what are we made of this attempt follows the reductionist approach which aims to identify the most fundamental constituents of matter and study their properties structural biology employs a variety of techniques such as x ray crystallography nuclear magnetic resonance spectroscopy cryo electron microscopy cryo em small angle x ray scattering and computer modelling to determine the 3d structure of biological macromolecules at the atomic level in this review i want to focus on the techniques that have particularly energized the field of structural biology which first emerged in the 1930s thanks to the work of many scientists encouraged and inspired by the braggs welcome to the department of structural biology our department founded in the 1970 s as the first of its kind in the united states is a world leader in the molecular and structural understanding of biology the discipline sits at the interface of physics chemistry and biology structural biology employs a variety of techniques such as x ray crystallography nuclear magnetic resonance spectroscopy cryo electron microscopy cryo em small angle x ray scattering and computer modelling to determine the 3d structure of biological macromolecules at the atomic level structural biology provides information about the organization of living matter including the spatial disposition of atoms and molecules the global folding of a biopolymer or even the association of biological macromolecules to form large intricate complexes here we discuss present day limitations of structural biology and highlight novel technologies that may enable us to analyze molecular functions directly inside cells we predict that the progression toward structural cell biology will involve a shift toward conceptualizing a 4d virtual reality of cells using digital twins structural biology deciphering the three dimensional architecture of biological macromolecules and how this underlying structure dictates function is a major challenge of modern biology first structural biology provides the chemical basis of life and many aspects of it remain to be explored it takes us from a functional description of a biological process to its in this review we delineate the structural features of sars cov 2 from the whole viral particle to the individual viral proteins and discuss their functions as well as their potential as targets for therapeutic interventions this review summarizes the representative structures and typically potential therapy agents that target sars cov 2 or some critical proteins for viral pathogenesis providing insights into the mechanisms underlying viral infection prevention of infection and treatment the

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