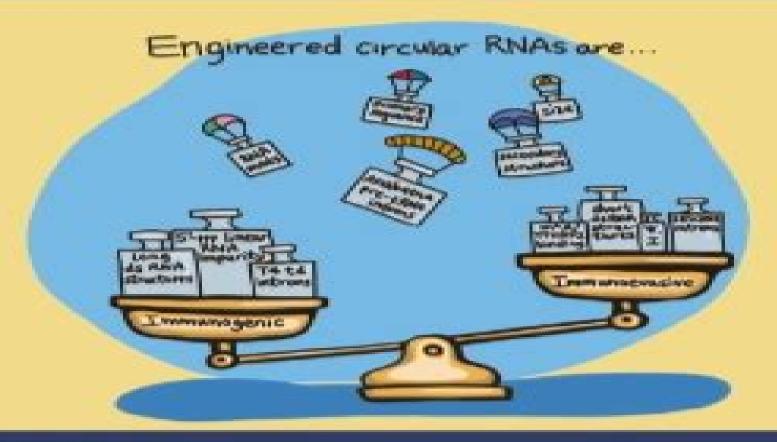
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Vladimir N Uversky

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basis of life with a focus on molecular medicine The latest advances of the post genomic era e g in the fields of functional genomics proteomics and bioinformatics are discussed in detail All articles are designed as self contained treatments Each of the approximately 425 articles begins with an outline and a key word section with definitions Articles are written in a review like style complemented with an extensive bipartite bibliography of reviews and books as well as primary papers A glossary of basic terms completes each volume and defines the most commonly used terms in molecular biology Together with the introductory illustrations found in each volume the articles enable readers to understand articles without referring to a dictionary textbook or other reference Praise for the first edition of the preceding Encyclopedia of Molecular Biology and Molecular Medicine an authoritative reference source of the highest quality It is extremely well written and well illustrated American Reference Books Annual Library Information Science Annual This series can be recommended without hesitation to a broad readership including students and qualified researchers articles set up facilitates easy reading and rapid understanding overwhelming amount of valuable data Molecular Biology Reports highly valuable and recommendable both for libraries and for laboratory use FEBS Letters This series is a classic Molecular Medicine Today Trends in Molecular Medicine Crossing the Boundaries of Life Karl S. Matlin, 2022-05-10 The difficulty of reconciling chemical mechanisms with the functions of whole living systems has plagued biologists since the development of cell theory in the nineteenth century As Karl Matlin argues in Crossing the Boundaries of Life it is no coincidence that this longstanding knot of scientific inquiry was loosened most meaningfully by the work of a cytologist the Nobel laureate G nter Blobel In 1975 using an experimental setup that did not contain any cells at all Blobel was able to synthesize proteins to theorize how proteins in the cell communicate spatially an idea he called signal hypothesis Over the next 20 years Blobel and other scientists were able to dissect this process into its precise molecular details For elaborating his signal concept into a process he termed membrane topogenesis the idea that each protein in the cell is synthesized with an address that directs the protein to its correct destination within the cell Blobel was awarded the Nobel Prize in Physiology or Medicine in 1999 Matlin argues that Blobel s investigative strategy and its subsequent application addressed the fundamental unresolved dilemma that had bedeviled biology from its very beginning allowing biology to overcome the barrier that had long blocked progress toward mechanistic explanations of life Crossing the Boundaries of Life thus uses Blobel's research and life story to shed light on the importance of cell biology for twentieth century science illustrating how it propelled the development of adjacent disciplines like biochemistry and molecular biology The Elusive Road Towards Effective Cancer Prevention and Treatment Franklyn De Silva, Jane Alcorn, 2022-10-28 Cancer will remain a global major health problem unless new diagnostic prognostic and management approaches are discovered to address both loss of life and quality of life Here we summarize the general physiology pathology heterogeneity and evolution of cancer current status limitations and challenges associated with prevention incidence treatment survival and mortality as well as future directions with regards to solid tumors Perspectives

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