



Bhanu P. Jena

Cellular Nanomachines

From Discovery to Structure-Function and Therapeutic Applications

- Illustrates the structure, isolation, composition, and the functional reconstitution of the porosomes nanomachine: cells' secretory portal
- Describes diseases targeting proteasomes, as well as diseases resulting from altered chaperonin, porosome, and ATP synthase
- Provides readers with an overview of the possible mechanisms involved in the assembly of cellular nanomachines

In this book, the major paradigm-shifting discoveries made in the past century on key cellular nanomachines are described in great detail: their complex yet precise and elegant design and function, as well as the diseases linked to their dysfunction and the therapeutic approaches to overcome them. The major focus of this book is the "porosome" nanomachine, the universal secretory portal in cells. This is an ideal book for students, researchers, and professionals in the fields of nanoscience and nanotechnology.

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