

Chronopharmaceutics : science and technology for biological rhythm-guided therapy and prevention of diseases

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Abstrak

As we better understand how biological processes unfold in real time through advances in chronobiology and related fields, we can create safer, more effective drugs, drug delivery systems, and disease monitoring and prevention systems. When administered in correct coordination with a patient's body rhythms, such drugs can maximize therapeutic outcome while minimizing unwanted side effects. Chronopharmaceutics presents the first standard reference text on this emerging cross-disciplinary field and its potential for therapeutic and preventive medicine.

Bringing together the latest findings from experienced investigators, this edited work presents a much-needed single source on chronopharmaceutics. After an introduction that includes a timeline of key discoveries, an overview of regulatory, formulation, manufacturing and key resource issues associated with chronopharmaceutics, the detailed coverage examines :

- Chronogenetics
- Chronopharmacokinetics
- Chronotherapy
- Controlled release systems triggered by physical and/or chemical activation
- Chronopharmacodynamics, chronomics, and anesthesia
- Markers-guided chronotheranostics