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| Titolo                  | Mechanisms and biological significance of pulsatile hormone release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Descrizione fisica      | 1 online resource (281 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Collana                 | Novartis Foundation symposium ; ; 227                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Disciplina              | 572<br>612.4/05<br>612.405                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Soggetti                | Hormones - Secretion<br>Biological rhythms - Molecular aspects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Note generali           | "Symposium on Mechanisms and Biological Significance of Pulsatile Hormone Secretion, held at the Novartis Foundation, London, 2-4 March 1999"--P. v.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nota di bibliografia    | Includes bibliographical references and indexes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Nota di contenuto       | MECHANISMS AND BIOLOGICAL SIGNIFICANCE OF PULSATILE HORMONE SECRETION; Contents; Participants; Introduction; Rhythmic transcription: the molecular basis of oscillatory melatonin synthesis; Discussion; The frequency encoding of pulsatility; Discussion; Timing-dependent modulation of insulin mitogenic versus metabolic signalling; Discussion; Growth hormone pulse-activated STAT5 signalling: a unique regulatory mechanism governing sexual dimorphism of liver gene expression; Discussion; Orderliness of hormone release; Discussion<br>Prediction and significance of the temporal pattern of hormone |

secretion in disease states Discussion; Therapeutic implications of circadian rhythms in cancer patients; Discussion; Pathophysiology of human circadian rhythms; Discussion; Nature of altered pulsatile hormone release and neuroendocrine network signalling in human ageing: clinical studies of the somatotropic, gonadotropic, corticotropic and insulin axes; Discussion; Pulsatile insulin secretion; Discussion; Control of growth hormone (GH) release by GH secretagogues; Discussion

Pulsatile parathyroid hormone secretion in health and diseaseDiscussion; Significance of pulsatility in the HPA axis; Discussion; Closing remarks; Index of contributors; Subject index

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#### Sommario/riassunto

This exciting book brings together an international and interdisciplinary group of experts to discuss the importance of pulsatile signalling in the induction of biological responses. Coverage includes the basic mechanisms involved in hormone pulsatility, the significance of pulsatility in normal and disease conditions, the relevance of circadian rhythms, changes with ageing, and detailed consideration of specific peptide hormone systems. This book includes contributions from professionals working in both basic and clinical research and reveals much new and exciting work in this area and promises

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