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| Titolo | Hormones in Ageing and Longevity / / edited by Suresh Rattan, Ramesh Sharma |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017 |
| ISBN | 3-319-63001-6 |
| Edizione | [1st ed. 2017.] |
| Descrizione fisica | 1 online resource (338 pages) : illustrations (some color), tables |
| Collana | Healthy Ageing and Longevity, , 2199-9015 ; ; 6 |
| Disciplina | 612.68 |
| Soggetti | Medicine - Research Biology - Research Geriatrics Cytology Biomedical Research Cell Biology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters and index. |
| Nota di contenuto | Part I: History And Conflux -- How Hormones, As Ancient Signalling Molecules, Regulate Diverse Biological Processes Through Evolution -- Somatotropic Axis' Role In Ageing And Longevity Could Depend On Life-History Strategies Of Species -- Part II: Growth, Stress And Metabolism -- Glucocorticoid Hormones In Aging -- Zinc, Insulin And Igf-I Interplay In Aging -- Growth Hormone And Igf-1 Axis In Aging And Longevity -- Thyroid Function In Healthy Ageing And Longevity -- Tgf- In Development And Ageing -- Part III: Neuroendocrine And Rhythms -- Hormones Of Hypothalamus In Aging -- Environmental And Physiological Cues On The Hypothalamus During Aging -- Melatonin In Healthy Aging And Longevity -- Hormones In Clock Regulation During Ageing -- Part IV: Brain, Immunity And Cytokines -- Estrogens In Aging -- Cytokines And Aging -- Plant Hormone Cytokinins For Modulating Human Aging And Age-Related Diseases. |
| Sommario/riassunto | This multi-chapter book focuses on one of the hottest topics in ageing research – the role of hormones in health and longevity, offering a |

comprehensive and up-to-date overview of their mechanistic roles in health, ageing and longevity. Hormones are an excellent system of communication between cells and tissues within an organism, and they coordinate a wide range of processes in biological systems, including neuroendocrine and immunological controls. The book offers insights into the latest significant advances in our understanding of the mechanisms of hormonal signaling that control a variety of processes involved in development and ageing. It is divided into four parts: Part I includes a review of the hundred-year history of hormones by the illustrious hormone biochemist Dr. J.R. Tata. Part II presents various chapters on the hormones involved in growth, stress and metabolism, while Part III addresses the hormones controlling cognition and rhythms in ageing processes. Lastly, Part IV discusses the hormones affecting reproduction, immunity and life span. It also explores the use of hormones as pharmaceuticals to maintain health in the elderly. It is a valuable resource for those working in the area of hormone signaling in general and in the field of ageing research in particular.
