

1. Record Nr.	UNINA9910821110203321
Autore	Guraya Sardul S
Titolo	Cellular and molecular biology of human oogenesis, ovulation and early embryogenesis : fundamentals, biomedical and clinical implications in relation to infant disorder // Sardul S. Guraya
Pubbl/distr/stampa	New Delhi, : New Age International (P) Ltd., Publishers, c2008
ISBN	1-281-22426-X 9786611224264 81-224-2249-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (152 pages) : illustrations
Disciplina	616.07
Soggetti	Embryology, Human Ovum - Cytology Ovum - Molecular aspects Ovulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Preface; Contents; Introduction; Chapter 1. Primordial Oocytes; Chapter 2. Oocyte Growth; Chapter 3. Oocyte Maturation; Chapter 4. Ovulation; Chapter 5. Fertilization; Chapter 6. Early Development; Chapter 7. Biomedical and Clinical Implications of Aging Changes in Oocytes; References; Subject Index
Sommario/riassunto	The basic and applied knowledge of cellular and molecular biology of human oogenesis, ovulation and early embryogenesis especially fundamentals, biomedical and clinical implications in relation to infant disorders for ensuring the formation of normal eggs or ova is essential. Keeping this in view, there is a great interest in the study of cellular and molecular biology of primordial follicles or oocytes and normal development, growth, differentiation and biochemistry of oogenesis i.e. oocyte growth, maturation, ovulation, fertilization of human ova in vivo and in vitro to develop better strategies for solving the problems of infertility and embryological disorders in women of various age groups. The exhaustive results on the study ovarian components have been subjected to diverse techniques of electron microscopy, histochemistry,

cytogenetics, immunology, autoradiography, physiology, molecular biology, biochemistry in vivo and in vitro systems have been discussed in this book. The objective of this book is therefore to summarize and integrate the results obtained so far with these diverse techniques in order to provide a deeper insight into the basic subcellular, and molecular aspects of human primordial follicles, oogenesis (oocyte growth and maturation), ovulation, fertilization and early embryogenesis with emphasis on developmental process involved in these aspects in humans at the cellular, subcellular, and molecular levels in vivo and in vitro in women of various age groups for the better understanding of effects of aging, especially developmental abnormalities of the foetus involved in fertility and embryogenesis. The subject matter discussed in this book will provide rational interpretation of alterations caused by prolonged action even in weak doses of different types of chemicals, drugs, stress, radiation as well as effects of cryopreservation and culturing of follicles or oocytes, fertilized eggs and early embryos in vitro in humans and other mammals. Various types of infant disorders in human as a result of aging of primordial oocytes and various clinical treatments are described in detail in relation to human oogenesis, ovulation and embryogenesis which is essential for basic biomedical scientists, clinicians etc.
