

1. Record Nr.	UNINA9910261125003321
Titolo	The biology of the first 1,000 days // [edited by] Crystal D. Karakochuk, Kyly C. Whitfield, Tim J. Green, and Klaus Kraemer
Pubbl/distr/stampa	Boca Raton : , : Taylor & Francis, , 2018
ISBN	1-351-64899-3 1-315-15295-9 1-4987-5680-8
Descrizione fisica	1 online resource (519 pages)
Collana	Oxidative Stress and Disease ; ; Volume 42
Disciplina	618.2
Soggetti	Pregnancy - Complications Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	chapter 1 The Importance of the First 1,000 Days -- An Epidemiological Perspective / Christine M. McDonald Andrew L. Thorne-Lyman -- section I Introduction -- chapter 2 World Health Organization Child Growth Standards / Mercedes de Onis -- section II What Is Normal Growth? -- chapter 3 Nutrient Requirements and Recommendations during Pregnancy / Magali Leyvraz Lynnette M. Neufeld -- chapter 4 Nutrient Requirements during Lactation / Victoria Hall Moran -- chapter 5 Nutrient Requirements of Infants and Young Children / Minghua Tang Kathryn G. Dewey Nancy F. Krebs -- section III Nutritional Requirements in the Life Stages -- chapter 6 Hormonal Regulation during Lactation and Human Milk Production / William R. Crowley -- chapter 7 Thyroid Function and Growth -- The Mechanisms of Iodine / Jessica Farebrother Fabian Rohner -- section IV Endocrinology in the Regulation of Growth -- chapter 8 Neural Tube Defects -- Mechanisms of Folate / Anne M. Molloy -- chapter 9 Cleft Lip and Palate / Eman Allam Ahmed Ghoneima Katherine Kula -- chapter 10 Obesity and Gestational Diabetes / Maria Farren Michael J. Turner -- chapter 11 Nutrition and Hypertensive Disorders of Pregnancy / Antonia W. Shand Tim J. Green -- chapter 12 Low Birth Weight and Small for Gestational Age in the Context of 1,000 Days / Amira M. Khan Bianca Carducci Zulfiqar A. Bhutta -- section V Adverse

Pregnancy and Birth Outcomes (Pathophysiology and Consequences) -- chapter 13 Acute Malnutrition / André Briend -- chapter 14 Management of Acute Malnutrition in Infants under 6 Months of Age / Marko Kerac Marie McGrath -- chapter 15 Chronic Malnutrition / Saskia de Pee -- chapter 16 Nutritional Regulation of the Growth Plate / Julian C. Lui -- section VI Pathophysiology and Nutrition Requirements in Child Malnutrition -- chapter 17 Gestational Weight Gain and Body Composition in Pregnant and Postpartum Women / Elisabet Forsum -- chapter 18 Body Composition Changes from Infancy to Young Childhood / Daniel J. Hoffman Pamela L. Barrios -- section VII Body Composition -- chapter 19 Early Life Gut Microbiome / Christopher J. Stewart Stephen P. Cummings -- chapter 20 Impact of Different Exposures, Including Environmental Enteropathies, on Gut Flora and Integrity / Fayrouz A. Sakr Ashour -- section VIII The Gut Microbiome -- chapter 21 Effects of Early Diet on Childhood Allergy / Merryn Netting Maria Makrides -- chapter 22 Epigenetics, Nutrition, and Infant Health / Philip T. James Matt J. Silver Andrew M. Prentice -- chapter 23 Fetal Origins of Obesity, Cardiovascular Disease, and Type 2 Diabetes / Herculina Salome Kruger Naomi S. Levitt -- section IX Effects of Early Life Exposures and Nutrition -- chapter 24 Effectiveness of Nutrition-Specific Interventions in Pregnancy and Early Childhood / Rebecca Heidkamp Adrienne Clermont Robert E. Black -- chapter 25 Nutrition-Sensitive Interventions for the First 1,000 Days / Jessica Fanzo Haley Swartz -- chapter 26 Global Progress in the Scaling Up Nutrition (SUN) Movement / Tom Arnold -- section X Effective Interventions during the First 1,000 Days -- chapter 27 A Role for Preconception Nutrition / Taylor Marie Snyder Homero Martinez Sara Wuehler Luz Maria De-Regil -- chapter 28 Interpregnancy Intervals and Birth Spacing / Amanda Wendt Usha Ramakrishnan -- chapter 29 Adolescent Nutrition -- A Critical Opportunity for Intervention / Emily Mates Anne Bush -- section XI Before and Beyond the 1,000 Days -- chapter 30 Metabolomics and Proteomics -- Methodological Advances to Increase Our Knowledge of Biology during the First 1,000 Days / Richard D. Semba Marta Gonzalez-Freire -- section XII Discovery Research.

Sommario/riassunto

"The first 1,000 days, from conception to two years of age, is a critical period of growth and development. Exposures to dietary, environmental, hormonal, and other stressors during this window have been associated with an increased risk of poor health outcomes, some of which are irreversible. The book addresses this crucial interval of early life across biological disciplines, linking concepts related to all biological fields to outcomes during the first 1,000 days (e.g. fetal growth and pregnancy outcomes) and beyond (e.g. gut microbiome and cardiovascular disease later in life). The strength of this book lies in its cross-disciplinary nature."--Provided by publisher.
