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Nota di contenuto	The emerging role of epigenetics in the regulation of female puberty / Lomniczi, A.; Ojeda, S.R -- Normal variation in pubertal timing : genetic determinants in relation to growth and adiposity / Willemsen, R.H.; Dunger, D.B -- Genetics of hypogonadotropic hypogonadism / Topaloglu, A.K.; Kotan, L.D -- Sexual precocity : genetic bases of central precocious puberty and autonomous gonadal activation / Macedo, D.B.; Silveira, L.F.G.; Bessa, D.S.; Brito, V.N.; Latronico, A.C -- Congenital hypogonadotropic hypogonadism : a trait shared by several complex neurodevelopmental disorders / de Roux, N.; Carel, J.-C.; Leger, J. (Paris) -- Animal modeling of early programming and disruption of pubertal maturation / Castellano, J.M.; Tena-Sempere, M -- Contemporary trends in onset and completion of puberty, gain in height and adiposity / Biro, F.M.; Kiess, W -- Consequences of early life programming by genetic and environmental influences : a synthesis regarding pubertal timing / Roth, C.L.; DiVall, S -- Nutritional disorders and pubertal disorders / Munoz-Calvo, M.T.; Argente, J -- Current changes in pubertal timing : revised vision in relation with environmental factors including endocrine disruptors / Parent, A.-S.; Franssen, D.; Fudvoye, J.; Pinson, A.; Bourguignon, J.-P -- Sex steroid and gonadotropin treatment in male delayed puberty / Howard, S.; Dunkel, L -- Sex steroid replacement therapy in female hypogonadism

from childhood to young adulthood / Norjavaara, E.; Ankarberg-Lindgren, C.; Kristrom, B -- Gonadotropin-releasing hormone agonist treatment in sexual precocity / Pienkowski, C.; Tauber, M -- Treatment of peripheral precocious puberty / Schoelwer, M.; Eugster, E.A -- Consultation for disordered puberty : what do adolescent medicine patients teach us? / Michaud, P.-A.; Ambresin, A.-E.

Sommario/riassunto

Puberty is a unique paradigm for the understanding of gene-environment interaction and developmental programming. Therefore, normal and abnormal pubertal development can be divided and examined in three sections: the role of genetic factors, the role of environmental factors (including nutrition) and therapeutic issues in disorders of puberty. Dealing with all of these sections and framed along current key concepts in pediatric endocrinology, experts share their view on critical issues such as weighting of genetic versus environmental factors or the impact of environmental factors in relation to critical periods in development. Not only showing the consensus and controversial issues in the various areas, each chapter presents lessons for clinical management in an attempt to link basic research, physiology and pathophysiology with the clinical management of pubertal disorders. Puberty from Bench to Clinic bridges up-to-date concepts from animal and human physiology and pathology towards a better understanding and management of pubertal disorders, making it a unique resource for researchers in the field of development and reproduction, clinical scientists and practitioners in neuro-, pediatric and adolescent endocrinology as well as gynecology.
