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Descrizione fisica	1 online resource (421 p.)
Disciplina	610
Soggetti	Medical genetics Proteins Oncology Gene Function Protein Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Introduction to Angiogenesis in Normal Physiology. Disease and Malignancy -- Adenosine triphosphate-binding cassette (ABC) lipid transporters -- Angiogenin -- Angiopoietins -- Angiotropin -- C-KIT: tyrosine kinase receptors with potential to initiate -- CCND1 and E1 -- Cluster of Differentiation 71 (CD71) -- Connective Tissue Growth Factor (CTGF) -- COX10 -- Cysteine-rich 61 (Cyr61) -- Epidermal growth factor -- Epidermal growth factor domain-like 7 (EGFL7) -- Erythropoietin-producing hepatocellular receptors A: Ephrin A1, Ephrin A2 and Ephrin A3 -- Erythropoietin-producing hepatocellular receptors B: Ephrin B2, Ephrin B4 -- Ets-1 -- Fibrin -- Fibroblast growth factors (Acidic: FGF-1; Basic: FGF-2) and its receptors (FGFR) -- Fibronectin -- Granulocyte-Macrophage and Granulocyte Colony Stimulating Factor (GM-CSF and G-CSF) -- GAX and HOXA5 -- Heparanase -- Hepatocyte Growth Factor (HGF) -- HIF-1 -- Insulin-like growth factor -- Integrins (v13, v15, 8) -- Interleukins -- Insulin receptor substrate (IRS1) -- Iron-sulfur clusters (ISCU) -- MDM4 -- Matrix Metalloproteinase 2 (MMP2) -- Monobutyrin -- Neutrophil activating protein-2 (NAP-2) -- p27kip1 and p57Kip2 (CDKN1B and CDKN1C) -- Platelet-derived endothelial cell growth factor (PDGF) -- Prolyl

hydroxylase domain-2 (PHD-2) -- Phosphatidylinositol-4, 5-bisphosphate 3-kinase (PIK3Ca) -- PIK3R2 (p85) - Phosphatidylinositol 3-kinase -subunit -- Platelet-activating factor -- Placenta growth factor (PlGF) -- Preproendothelin-1 (PreproET-1) -- Proliferin -- Prostaglandins -- ROS1 -- SIRT1 -- SMAD4 (Mothers against Decapentaplegic Homolog 4) -- Sprouty-Related, EVH1 Domain-containing protein 1 (SPRED-1) -- Signal transducer and activator of transcription of 5A and S3 (STAT5 and STATS3) -- SUFU -- Tenascins -- Tissue inhibitor of metalloproteinases 1 and 2 (TIMP-1 and TIMP-2) -- Tissue factor gene -- Transforming growth factor and (TGF- and TGF-) -- Transforming growth factor beta-receptor type II (TGFR2) -- TSP-1 -- Tumour necrosis factor- (TNF-) -- Urokinase plasminogen activator -- Vascular Endothelial Growth Factor (VEGF) -- Vascular cell adhesion molecule-1 (VCAM-1) -- Vascular endothelial (VE)-Cadherin -- Zinc Finger E-Box Binding Homeobox 1 (ZEB1) -- Miscellaneous genes involved in Angiogenesis in Normal Physiology, Disease and Malignancy.

Sommario/riassunto

This book is about “Angiogenesis”. A process in which new vasculature is formed from pre-existing capillaries. Angiogenesis process is associated with the proliferation and growth of both physiologically normal and neoplastic tissues, through the formation of vascular supply, essential for delivering growth requirements such as oxygen and nutrients. The book describes more than 100 genes and their key regulatory functions in the context of normal healthy condition, disease and malignancy, cancer proliferation and progression. New insights into the role of angiogenesis and the therapeutic inhibition of its regulators are investigated, due to the great potential for exploitation in the development of a novel treatment for cancer. New scientists, junior researchers and biomedical science students will find this book an invaluable introductory reference to their insight about angiogenesis and angiogenic role of more than 100 angiogenes and their role in healthy, disease and malignant conditions.