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Nota di contenuto	Endothelial cell biology / Femke Hillen, Veerie Meloote, Judy R. van Beijnum and Arjan W. Griffioen -- Endothelial cell proliferation assays / Wen-Sen Lee -- Endothelial cell migration assays / Christos Polytarchou, Maria Hatzia Apostolou and Evangelia Papadimitriou -- Tubule formation assays / Ewen J. Smith and Carolyn A. Staton -- Modelling the effects of the haemodynamic environment on endothelial cell responses relevant to angiogenesis / Gerard B. Nash and Stuart Egginton -- Whole or partial vessel outgrowth assays / Cindy H. Chau and William D. Figg -- Assaying endothelial mural cell interactions / Melissa K. Nix and Karen K. Hirschi -- Assays for membrane and intracellular signalling events / Vittorio Tomasi, Cristiana Griffoni, Spartaco Santi, Patrizia Lenaz, Rosa Anna Iorio, Antonio Strillacci and Enzo Spisni -- Implantation of sponges and polymers / Silvia P.

Andrade, Monica A. N. D. Ferreira, and Tai-Ping Fan -- Angiogenesis assays in the chick / Andries Zijlstra, David Mikolon and Dwayne G. Stupack -- Corneal angiogenesis assay / Siqing Shan and Mark W. Dewhirst -- Dorsal air sac model / Sei Yonezawa, Tomohiro Asai and Naoto Oku -- Chamber assays / Michael D. Menger, Matthias W. Laschke and Brigitte Vollmar -- Tumour models : analysis of angiogenesis in vivo / Sven A. Lang and Oliver Stoeltzing -- Angiomouse : imageable models of angiogenesis / Robert M. Hoffman -- Techniques and advances in vascular imaging in Danio rerio / Kenna R. Mills Shaw and Brant M. Weinstein -- Biological and clinical implications of recruitment of stem cells into angiogenesis / Gianluigi Castoldi, Antonio Cuneo and Gian Matteo Rigolin -- Methods for monitoring of the anti-angiogenic activity of agents in patients : novel trial design / Shannon Smiley, Michael K. K. Wong and Shaker A. Mousa -- An overview of current angiogenesis assays : choice of assay, precautions in interpretation, future requirements and directions / Robert Auerbach.

Sommario/riassunto

Angiogenesis, the development of new blood vessels from the existing vasculature, is essential for physiological growth and over 18,000 research articles have been published describing the role of angiogenesis in over 70 different diseases, including cancer, diabetic retinopathy, rheumatoid arthritis and psoriasis. One of the most important technical challenges in such studies has been finding suitable methods for assessing the effects of regulators of the angiogenic response. While increasing numbers of angiogenesis assays are being described both in vitro and in vivo, it is often still necessary
