Modern Concepts in Angiogenesis

This volume addresses current emerging concepts in the field of angiogenesis, including important angiogenesis modifiers which are essential in combination with growth factors (VEGF and FGF) for the physiological process and also for therapeutic applications.

The book covers many of the lesser discussed areas including blood vessel growth guidance (interactions with CNS) as well as emerging practical applications of these concepts.

The text comprises in-depth reviews by leading experts in several major areas: recent basic science discoveries about angiogenesis modifiers (semaphorins, ephrins and nitric oxide, for which the Nobel Prize was awarded); arterial guidance; clinical applications of new angiogenic factors (HGF, HIF and eNOS); and basic and clinical advancement of anti-angiogenic molecules for the treatment of cancer and macular degeneration (tyrosine kinase inhibitors and NO).

These topics, especially their unique combination presented in this volume, are not found in any other current books on angiogenesis. This makes the book a must-read for readers both interested and actively involved in the most recent advances in basic principles and clinical applications of angiogenesis.