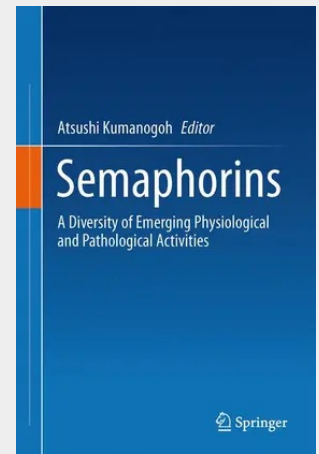


Semaphorins

A Diversity of Emerging Physiological and Pathological Activities

This book presents the current concepts of semaphorin biology. In the early 1990s, semaphorins were originally identified as axon guidance cues that function during neuronal development. However, cumulative findings have clarified that they have diverse functions in many physiological processes, including cardiogenesis, angiogenesis, vasculogenesis, osteoclastogenesis, retinal homeostasis, and immune regulation. Additionally, they have been implicated in the pathogenesis of various human diseases, including tumorigenesis/tumor metastasis, neuroregenerative diseases, retinal degeneration, irregular pulse/sudden death, and immune disorders. Based on this current research background, the book covers the essential state-of-the-art findings for basic scientists in biochemistry, molecular biology, neuroscience, developmental biology, and structural biology, as well as for physicians in neurology, cardiology, oncology, orthopedic surgery, otorhinolaryngology, ophthalmology, allergology, and rheumatology.

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106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9784431543848

Medium: Buch

ISBN: 978-4-431-54384-8

Verlag: Springer Japan

Erscheinungstermin: 20.05.2015

Sprache(n): Englisch

Auflage: 2015

Produktform: Gebunden

Gewicht: 5221 g

Seiten: 226

Format (B x H): 160 x 241 mm

