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| Autore                  | Schroder Hannsjorg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Titolo                  | The Human Brainstem : Anatomy and Pathology / / by Hannsjörg Schröder, Rob A.I. de Vos, Stefan Huggenberger, Lennart Müller-Thomsen, Annemieke Rozemuller, Farman Hedayat, Natasha Moser                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ISBN                    | 3-030-89980-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Edizione                | [1st ed. 2023.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Descrizione fisica      | 1 online resource (XX, 697 p. 831 illus., 786 illus. in color.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Disciplina              | 016.22<br>612.826                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Soggetti                | Neuroanatomy<br>Anatomy<br>Neurosciences<br>Nervous System<br>Neuroscience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nota di contenuto       | PART I -- General consideration -- Development of the brainstem -- Rhombomere 11 r11 -- Rhombomere 10 r10 -- Rhombomere 9 r9 -- Rhombomere 8 r8 -- Rhombomere 7 r7 -- Rhombomere 6 r6 -- Rhombomere 5 r5 -- Rhombomere 4 r4 -- Rhombomere 3 r3 -- Rhombomere 2 r2 -- Rhombomere 1 r1 -- Isthmus r0 -- Mesencephalon m1 /m2 -- Pretectum p1 (Prosomere 1) -- PART II ATLAS -- Histology atlas of the human brain -- Darrow red series (Visualization of perikarya) -- Campbell series (Visualization of fiber tracts) -- Atlas of the human brainstem - magnetic resonance imaging (MRI) -- Topographical atlas of plastinated sections of the human brainstem and cranial nerve target structures. |
| Sommario/riassunto      | The human brainstem has long been a neglected area in clinical medicine. This is shown by the fact that there is no introductory book on the neuroanatomy and pathology of this region. This book is intended to introduce the reader to the neuroanatomy of the human brainstem and combines an atlas with detailed information on the                                                                                                                                                                                                                                                                                                                                                            |

individual structures. The atlas features a state-of-the-art magnetic resonance imaging series, histological specimens (Darrow Red and Campbell staining) and a plastinate-based topographical part, which allows direct comparison of histological and topographical findings with neuroimaging. In addition, the reader is guided along the brainstem neuromer model through the human brainstem and learns about the functional properties of the individual structures of the brainstem. Where appropriate, peripheral targets of brainstem structures are illustrated and explained. Furthermore, each chapter covers the most important neurological disorders affecting the brainstem. This book aims to demonstrate that sound anatomical knowledge is required to understand brainstem pathology. It will particularly help those new to the field to better understand the complex anatomy of the human brainstem and will be useful to basic and clinical neuroscientists alike.

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