



Human Neuroanatomy: A Text, Brain Atlas and Laboratory Dissection Guide

J. Edward Bruni, Donald Montemurro PhD

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Human Neuroanatomy: A Text, Brain Atlas, and Laboratory Dissection Guide has been substantially changed and updated from a previous edition entitled *The Human Brain in Dissection* published in 1988 and accordingly has been re-titled. The last 20 years have seen a significant shift in the way anatomy and its sub-disciplines like neuroanatomy are taught in both undergraduate and graduate neuroscience courses; not only has the time allocated for these courses been reduced, but the teaching methodologies have become more focused and specific due to time constraints.

As reported by Drake et. al., "Medical education in the anatomical sciences: the winds of change continue to blow" (Anat. Sci. Educ., 2: 253-259, 2009), we have seen an overall drop in the total number of lecture hours and laboratory hours since the last survey done of medical curricula in 2002. *Human Neuroanatomy* has been reconstructed to appeal to just these changes: courses with a lab/dissection component as well as those without will find this guide the perfect teaching tool to understand human neuroanatomy.

With these limitations in mind and to better meet current requirements the authors have expanded the textural content in this new edition and separated it entirely from the dissection instructions which have been retained. The "Laboratory Exercise" as it is now designated stands alone in a highlighted box in each chapter. It outlines what is to be accomplished during a given session using pre-dissected specimens and/or appropriate models or by exposing them in a dissection. Clear step by step procedural instructions are provided and important structures to be seen are highlighted. The dissection sequence laid out in the chapters is a progressive one requiring only a single wet specimen and ideally completed in two hour periods. Students who do not have the opportunity to dissect, however may simply skip these paragraphs.

In this 3rd edition of the book many new illustrations have been added to better depict the salient features of the brain at various stages of dissection and to facilitate understanding the subject matter. Labeling of some illustrations has changed and others have been replaced. All are amply referenced to the text and to the laboratory exercises and are intended to assist with or be used in lieu of dissection.

New also in this edition is a section of clinically-relevant notes as well as USMLE type multiple-choice questions added in separate sections at the end of each chapter. These quiz type questions provide students with a means of assessing their understanding of the subject matter in each chapter and an indication of how their knowledge might be tested.

And finally, an atlas of 62 labelled brain sections in four different planes, at the end of the book, has been retained. CT scans and M.R. images that correspond as closely as possible to the anatomic section are included.

Comprehensive and concise *Human Neuroanatomy: A Text, Brain Atlas, and Laboratory Dissection Guide* is an invaluable guide to assist medical, dental and allied health science students understand nervous system structure, function and disease.

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