

# NEUROANATOMY MCQ AND ANSWERS Reference

## Neuroanatomy MCQ and Answers: A Comprehensive Guide for Students and Professionals

Neuroanatomy is a vital branch of anatomy that focuses on the structure and organization of the nervous system. For medical students, neurology residents, and health professionals, mastering neuroanatomy is essential for understanding how the nervous system functions, diagnosing neurological disorders, and performing clinical procedures. One of the most effective methods to test and reinforce knowledge in this field is through multiple-choice questions (MCQs). In this article, we will explore a wide array of neuroanatomy MCQs and their answers, providing a valuable resource for exam preparation and self-assessment. Whether you're preparing for exams or seeking to brush up your knowledge, this guide offers detailed explanations and insights into key neuroanatomical concepts.

## Understanding the Basics of Neuroanatomy MCQs

Before diving into specific questions and answers, it's important to understand the role and structure of MCQs in neuroanatomy education.

### Why Use MCQs in Neuroanatomy?

- Test comprehensive knowledge efficiently
- Identify areas requiring further study
- Enhance recall through active retrieval
- Simulate exam scenarios for better preparedness

### Characteristics of Effective Neuroanatomy MCQs

- Clear and concise question wording
- Single, unambiguous correct answer
- Plausible distractors to challenge understanding
- Coverage of key neuroanatomical concepts

## Sample Neuroanatomy MCQs and Their Answers

Below are some carefully curated neuroanatomy multiple-choice questions covering various topics such as brain structures, pathways, cranial nerves, and functional regions.

**1. Which part of the brain is primarily responsible for coordination and balance?**

- Cerebral cortex
- Cerebellum
- Medulla oblongata
- Thalamus

**Answer:** B. Cerebellum

The cerebellum plays a key role in coordinating voluntary movements, maintaining posture, and ensuring smooth motor activity. Damage to the cerebellum often results in ataxia, a disorder characterized by loss of coordination.

**2. The blood-brain barrier is formed primarily by which of the following?**

- Endothelial cells of cerebral capillaries
- Choroid plexus epithelial cells
- Astrocyte foot processes
- Microglia

**Answer:** C. Astrocyte foot processes

The blood-brain barrier is mainly formed by the end-feet of astrocytes surrounding the endothelial cells of cerebral capillaries, regulating the passage of substances between the blood and neural tissue.

**3. Which cranial nerve is primarily responsible for motor innervation to the muscles of mastication?**

- Facial nerve (CN VII)
- Trigeminal nerve (CN V)
- Glossopharyngeal nerve (CN IX)
- Vagus nerve (CN X)

**Answer:** B. Trigeminal nerve (CN V)

The mandibular branch of the trigeminal nerve provides motor innervation to muscles involved in mastication, such as the temporalis, masseter, and pterygoid muscles.

#### 4. Which structure connects the two cerebral hemispheres?

- Corpus callosum
- Thalamus
- Hypothalamus
- Fornix

**Answer:** A. Corpus callosum

The corpus callosum is the largest commissural fiber bundle that connects the left and right cerebral hemispheres, facilitating interhemispheric communication.

#### 5. The primary visual cortex is located in which lobe of the brain?

- Occipital lobe
- Temporal lobe
- Parietal lobe
- Frontal lobe

**Answer:** A. Occipital lobe

The primary visual cortex, responsible for processing visual information, is situated in the occipital lobe, specifically in Brodmann area 17.

### Advanced Neuroanatomy MCQs for In-Depth Learning

To deepen your understanding, here are some more challenging neuroanatomy MCQs that cover detailed pathways and functional neuroanatomy.

#### 6. The corticospinal tract primarily decussates at which level?

- Medulla oblongata
- Spinal cord

- Pons
- Midbrain

**Answer:** A. Medulla oblongata

Approximately 85-90% of fibers in the corticospinal tract decussate at the pyramidal decussation in the medulla, forming the lateral corticospinal tract which controls voluntary limb movements.

## 7. The limbic system is primarily associated with:

- Memory and emotional regulation
- Motor coordination
- Sensory processing
- Autonomic functions

**Answer:** A. Memory and emotional regulation

The limbic system, including structures like the hippocampus and amygdala, plays a crucial role in emotion, behavior, motivation, and memory formation.

## 8. Which nucleus is part of the basal ganglia and is involved in motor control?

- Substantia nigra
- Red nucleus
- Hypothalamic nucleus
- Ventral posterolateral nucleus

**Answer:** A. Substantia nigra

The substantia nigra, part of the basal ganglia, is involved in modulating movement, and its degeneration is linked to Parkinson's disease.

## Tips for Using Neuroanatomy MCQs Effectively

To maximize the benefits of MCQs in your neuroanatomy studies, consider the following strategies:

- **Practice regularly:** Frequent testing helps reinforce memory and improves recall under exam conditions.

- **Understand explanations:** Review why each answer is correct or incorrect to deepen comprehension.
- **Use diagrams:** Visual aids can help associate questions with neuroanatomical structures.
- **Identify weak areas:** Focus more on topics where you frequently select incorrect answers.

## Conclusion

Mastering neuroanatomy requires a combination of theoretical knowledge and practical application. Using well-structured MCQs with detailed answers is an excellent way to test your understanding, prepare for exams, and solidify complex concepts. The questions and answers provided in this guide cover fundamental and advanced topics, making it a valuable resource for students and professionals alike. Remember, consistent practice, coupled with thorough review, will lead to greater confidence and competence in neuroanatomy.

Start incorporating these MCQs into your study routine today and take a significant step toward mastering the fascinating and intricate world of neuroanatomy!

### Neuroanatomy MCQ and Answers: A Comprehensive Review for Medical Learners

Understanding neuroanatomy is fundamental for students and practitioners in neuroscience, neurology, neurosurgery, and related fields. Multiple-choice questions (MCQs) serve as a vital tool in assessing knowledge, reinforcing learning, and preparing for examinations. This article offers an in-depth exploration of neuroanatomy MCQs and answers, analyzing common question types, key concepts, and strategies to master this complex subject.

## Introduction to Neuroanatomy MCQs

Neuroanatomy MCQs are designed to test various levels of cognitive skills—from basic recall of structures and functions to application and analysis of clinical scenarios. They often emphasize:

- Anatomical localization of structures
- Functional relationships
- Pathways and tracts
- Clinical correlations

Effective MCQs challenge learners to not only memorize facts but also understand relationships and apply knowledge in clinical contexts.

## Common Themes in Neuroanatomy MCQs

Understanding typical themes helps in systematic preparation. The most common topics include:

## **1. Brain Structures and Their Functions**

- Cerebral cortex regions
- Subcortical nuclei
- Brainstem components
- Cerebellar structures

## **2. Cranial Nerves**

- Nerve nuclei locations
- Functionality
- Lesion implications

## **3. White Matter Tracts**

- Association fibers
- Commissural fibers
- Projection fibers

## **4. Vascular Supply**

- Major arteries
- Typical ischemic territories
- Clinical syndromes

## **5. Spinal Cord Anatomy**

- Cross-sectional organization
- Dermatomes and myotomes
- Spinal cord tracts

## **6. Neurodevelopment**

- Embryological origins
- Developmental anomalies

## Sample Neuroanatomy MCQs and Detailed Answers

To illustrate the depth and style of neuroanatomy MCQs, here are several representative questions with comprehensive explanations.

### Question 1: Which of the following structures is primarily responsible for coordination and balance?

- a) Thalamus
- b) Cerebellum
- c) Basal ganglia
- d) Hippocampus

Answer: b) Cerebellum

Explanation: The cerebellum plays a crucial role in coordinating voluntary movements, maintaining posture, balance, and fine-tuning motor activity. It receives input from sensory systems and other parts of the brain and spinal cord and integrates these to produce smooth, coordinated movements. The thalamus functions as a relay center, the basal ganglia are involved in movement regulation and initiation, and the hippocampus is key in memory formation.

### Question 2: Which cranial nerve is responsible for parasympathetic innervation of the thoracic and abdominal viscera?

- a) Cranial nerve V (Trigeminal)
- b) Cranial nerve VII (Facial)
- c) Cranial nerve IX (Glossopharyngeal)
- d) Cranial nerve X (Vagus)

Answer: d) Cranial nerve X (Vagus)

Explanation: The vagus nerve (cranial nerve X) provides extensive parasympathetic innervation to

the heart, lungs, gastrointestinal tract (up to the splenic flexure), and other thoracic and abdominal organs. It is the principal parasympathetic nerve in the body. Cranial nerves V, VII, and IX have different sensory and motor functions but do not provide the widespread parasympathetic innervation seen in the vagus nerve.

**Question 3: The corticospinal tract primarily decussates at which level of the central nervous system?**

- a) Medulla oblongata
- b) Spinal cord
- c) Pons
- d) Midbrain

Answer: a) Medulla oblongata

Explanation: The majority of the corticospinal fibers decussate at the pyramidal decussation in the medulla oblongata, resulting in contralateral control of limb movements. This crossing explains why lesions above the decussation lead to contralateral deficits, whereas lesions below affect ipsilateral functions.

**Question 4: Which of the following arteries supplies the medial surface of the cerebral hemisphere?**

- a) Middle cerebral artery
- b) Anterior cerebral artery
- c) Posterior cerebral artery
- d) Basilar artery

Answer: b) Anterior cerebral artery

Explanation: The anterior cerebral artery (ACA) supplies most of the medial cerebral cortex, including parts of the prefrontal and parietal lobes. The middle cerebral artery supplies the lateral surfaces, the posterior cerebral artery supplies the occipital lobes and inferior temporal lobes, and the basilar artery is a major vessel supplying the brainstem and cerebellum.

### **Question 5: Which structure is part of the limbic system and is involved in emotional processing and memory?**

- a) Amygdala
- b) Caudate nucleus
- c) Substantia nigra
- d) Pineal gland

Answer: a) Amygdala

Explanation: The amygdala is a key limbic structure involved in emotional regulation, fear responses, and processing emotional memories. The caudate nucleus is part of the basal ganglia involved in motor control, the substantia nigra in dopamine production, and the pineal gland in regulating circadian rhythms.

## **Strategies for Mastering Neuroanatomy MCQs**

Success in neuroanatomy MCQ exams depends on strategic study approaches:

### **1. Visual Learning and Repetition**

- Use diagrams, 3D models, and atlases to visualize structures.
- Repeatedly label and identify structures to reinforce memory.

### **2. Clinical Correlation Practice**

- Study lesion syndromes associated with specific anatomical areas.
- Practice scenario-based questions to enhance application skills.

### **3. Categorization and Mnemonics**

- Group similar structures (e.g., cranial nerves and their functions).
- Use mnemonics to remember complex pathways.

### **4. Active Recall and Spaced Repetition**

- Regularly test yourself with MCQs.
- Space out study sessions to improve retention.

## 5. Focused Review of Weak Areas

- Identify and revisit topics where errors are frequent.
- Use targeted question banks for focused practice.

## Advanced Topics and Clinical Integration

MCQs often incorporate clinical scenarios to test applied knowledge.

### Examples include:

- Recognizing deficits from specific cortical or subcortical lesions.
- Interpreting neuroimaging findings.
- Understanding neurovascular territories and stroke presentations.

Engaging with these questions helps bridge the gap between anatomy and clinical practice, fostering comprehensive understanding.

## Conclusion

Neuroanatomy MCQs and answers form an essential component of medical education, enabling learners to reinforce their understanding of complex structures and pathways. Mastery involves not just memorization but also visualization, clinical correlation, and application. By systematically approaching MCQs, utilizing strategic study methods, and engaging with clinical scenarios, learners can confidently navigate the intricacies of neuroanatomy and excel in examinations.

Remember, consistent practice and deep conceptual understanding are key to success in neuroanatomy—an intricate but fascinating domain that underpins many aspects of neurological science and practice.

**Question** Which part of the brain is primarily responsible for coordinating voluntary movements? The cerebellum is primarily responsible for coordinating voluntary movements. What is the main function of the occipital lobe in neuroanatomy? The occipital lobe is mainly involved in visual processing. Which cranial nerve is responsible for facial sensation and expression? The facial nerve (cranial nerve VII) is responsible for facial sensation and expression. Where is Broca's area located, and what is its function? Broca's area is located in the frontal lobe, typically in the left

hemisphere, and it is involved in speech production. Which structure acts as a relay station for sensory information on its way to the cerebral cortex? The thalamus acts as a relay station for sensory information heading to the cerebral cortex.

**Related keywords:** neuroanatomy questions, neuroanatomy quiz, neuroanatomy test, neuroanatomy practice, neuroanatomy exam, neuroanatomy multiple choice, nervous system MCQ, brain anatomy questions, spinal cord MCQ, neuroanatomy study guide

## neuroanatomy text and atlas martin

**Neuroanatomy Text and Atlas Martin** serve as essential resources for students, educators, and medical professionals seeking a comprehensive understanding of the intricate structures of the nervous system. Whether you're beginning your journey into neuroanatomy or advancing your expertise, these tools provide detailed illustrations, descriptive explanations, and organized information that facilitate learning and retention. In this article, we will explore the significance of neuroanatomy texts and atlases, focusing particularly on the renowned Martin neuroanatomy atlas, its features, and how it enhances comprehension of the complex human nervous system.

## Understanding Neuroanatomy Textbooks and Atlases

### What Is a Neuroanatomy Textbook?

A neuroanatomy textbook is a comprehensive written resource that covers the anatomy, physiology, and pathology of the nervous system. These texts typically include:

- Detailed descriptions of neural structures
- Functional explanations of neural pathways
- Clinical correlations to understand neurological disorders
- Review questions and summaries for self-assessment

The primary goal of a neuroanatomy textbook is to provide an in-depth understanding of the nervous system's components, their relationships, and their functions, making complex concepts accessible to learners at various levels.

### What Is a Neuroanatomy Atlas?

A neuroanatomy atlas complements textbooks by offering visual representations of neural

structures. It includes:

- High-quality, detailed illustrations and images
- Photomicrographs of brain and spinal cord sections
- Cross-sectional and schematic diagrams
- Annotated labels for identification

Atlases serve as invaluable visual aids for students and clinicians to identify structures accurately, understand spatial relationships, and enhance memorization through imagery.

## The Significance of Martin Neuroanatomy Atlas

### Overview of the Martin Atlas

The **Martin neuroanatomy atlas** is a widely respected resource known for its clarity, precision, and educational value. Developed by Dr. Alexander Martin and colleagues, it provides detailed images of the human brain, spinal cord, and associated structures, making complex neuroanatomical features accessible and understandable.

### Key Features of the Martin Atlas

- **High-Resolution Images:** Offers detailed, high-quality illustrations that depict various levels of the central nervous system.
- **Coronal, Sagittal, and Horizontal Sections:** Provides multiple views to help learners grasp the three-dimensional organization of neural structures.
- **Color-Coded Structures:** Uses color coding to differentiate between various brain regions, nuclei, tracts, and other components.
- **Comprehensive Labeling:** Clear labels aid in quick identification and learning of neuroanatomical features.
- **Integration with Textbooks:** Often paired with authoritative neuroanatomy textbooks for enhanced understanding.

### Why Choose the Martin Atlas?

The Martin neuroanatomy atlas stands out due to its focus on clarity and educational effectiveness. It caters to a broad audience, from medical students to practicing neurologists, by simplifying complex structures without sacrificing accuracy. Its detailed imagery helps bridge the gap between theoretical knowledge and practical application, especially in clinical settings.

# How the Martin Atlas Enhances Neuroanatomy Learning

## Facilitating Visual Learning

Visual aids are crucial in mastering neuroanatomy because of the brain's complex and three-dimensional nature. The Martin atlas provides:

- Visual differentiation of various neural pathways and structures
- Clear depictions of brain regions and their relationships
- Multiple sectional views to understand spatial orientation

## Supporting Clinical Correlations

Understanding neuroanatomy is vital for diagnosing neurological disorders. The Martin atlas helps clinicians:

- Identify lesion sites
- Correlate symptoms with specific brain areas
- Plan surgical interventions with precise anatomical mapping

## Enhancing Memorization and Recall

The detailed and organized images in the Martin atlas make it easier for learners to memorize structures by:

- Using color coding for quick recognition
- Providing consistent labeling across images
- Allowing repeated review of complex sections

# Integrating the Martin Atlas into Neuroanatomy Study and Practice

## For Students

Students can utilize the Martin atlas to supplement textbook learning by:

- Reviewing sectional images after reading about specific brain regions
- Using the atlas for self-assessment and quizzes

- Preparing for exams through visual repetition

## For Educators

Instructors can incorporate the Martin atlas into their teaching strategies by:

- Using images during lectures to illustrate key points
- Creating interactive activities such as labeling exercises
- Providing students with access to the atlas for independent study

## For Clinicians

Practicing neurologists and surgeons benefit from the detailed visuals when:

- Planning complex procedures
- Explaining diagnoses to patients
- Reviewing neuroanatomical pathways relevant to specific cases

## Where to Access the Neuroanatomy Text and Atlas Martin

The Martin neuroanatomy atlas is available in various formats:

- **Print Editions:** Hardcover and softcover versions for tactile learners and reference in clinical settings.
- **Digital Versions:** PDF downloads and interactive online platforms that allow zooming and annotation.
- **Combination Packages:** Bundled with textbooks for comprehensive learning resources.

It is recommended to choose the format that best suits your learning style and professional needs.

## Conclusion

The combination of a reliable neuroanatomy text and an illustrative atlas like Martin provides a powerful foundation for understanding the human nervous system. The Martin neuroanatomy atlas, with its detailed images, clear labeling, and comprehensive coverage, stands out as an invaluable resource for students, educators, and clinicians alike. By integrating visual learning with detailed descriptions, these tools facilitate mastery of complex neuroanatomical concepts, ultimately contributing to better clinical practice and scientific understanding. Whether used for study, teaching,

or clinical reference, the neuroanatomy text and Atlas Martin remain essential components in the pursuit of neurological knowledge.

## Neuroanatomy Text and Atlas Martin: A Comprehensive Guide for Students and Professionals

Understanding the intricate architecture of the human nervous system is a cornerstone of neuroscience, neurology, and related medical fields. One of the most authoritative resources for this purpose is the neuroanatomy text and atlas Martin—a detailed, visually rich guide that combines textual explanations with comprehensive illustrations. Whether you're a student seeking clarity on complex concepts or a seasoned clinician referencing detailed neuroanatomical structures, Martin's neuroanatomy atlas stands as an invaluable tool.

In this article, we will explore the significance of the neuroanatomy text and atlas Martin, examine its structure, highlight key features, and discuss how it can enhance your understanding of the nervous system.

### The Significance of the Neuroanatomy Text and Atlas Martin

Neuroanatomy is a challenging subject due to the brain's complexity and the need for precise visualization of structures. The Martin neuroanatomy text and atlas bridges this gap by providing a detailed, systematic approach to neuroanatomical knowledge.

Why is Martin's atlas considered a gold standard?

- Comprehensive Visuals: Rich, detailed illustrations and photographs that clarify three-dimensional relationships.
- Clear Anatomical Descriptions: Concise, accurate explanations that facilitate understanding.
- Structured Layout: Organized to progress from basic to advanced topics, suitable for varying levels of learners.
- Correlative Content: Connects anatomy with clinical relevance, aiding in real-world applications.

### Overview of the Structure of Martin's Neuroanatomy

The neuroanatomy text and atlas Martin is typically divided into sections, each focusing on different aspects of the nervous system:

- Introduction to Neuroanatomy

- Basic concepts and terminology
- Development of the nervous system
- Overview of central and peripheral nervous system
  
- The Central Nervous System (CNS)
  
- Brainstem, cerebellum, and cerebral hemispheres
- Diencephalon and limbic system
- Structural components and functions
  
- The Peripheral Nervous System (PNS)
  
- Cranial nerves
- Spinal nerves
- Autonomic nervous system
  
- Functional Systems
  
- Sensory pathways
- Motor pathways
- Integrative systems
  
- Vascular Supply
  
- Blood flow to neural tissues
- Vascular anatomy relevant to neuroimaging and pathology
  
- Clinical Correlations
  
- Common neuroanatomical lesions
- Neurodiagnostic techniques

- Case studies and clinical relevance

## Key Features of Martin's Neuroanatomy Text and Atlas

To maximize its utility, Martin's neuroanatomy atlas incorporates several distinctive features:

### Detailed Illustrations and Photographs

- High-quality drawings depicting nuclei, tracts, and regions
- Cross-sectional images correlating with MRI and histology
- Labeled diagrams for quick identification

### Layered Learning Approach

- Basic structures introduced early
- Complex pathways and connections explained progressively
- Clinical implications integrated alongside anatomy

### Color-Coding and Legends

- Use of colors to differentiate structures, pathways, and regions
- Clear legends for quick reference

### Clinical Correlation Boxes

- Emphasis on how anatomical knowledge applies to neurological disorders
- Illustrations of lesion effects and symptomatology

### Accessible Language

- Technical accuracy combined with clarity
- Suitable for students, educators, and clinicians

## How to Use Martin's Neuroanatomy Effectively

For optimal learning and reference, consider the following strategies:

- Start with Basic Concepts: Familiarize yourself with general neuroanatomical terminology and concepts before delving into detailed sections.
- Use the Atlas in Tandem with Text: Cross-reference illustrations with textual explanations for better comprehension.
- Focus on Clinical Correlations: Relate structures to their functions and potential pathologies to deepen understanding.
- Practice Identification: Use the labeled diagrams to quiz yourself on neuroanatomical structures.
- Integrate with Neuroimaging: Cross-compare atlas images with MRI and CT scans to improve interpretative skills.

### Practical Applications of Martin's Neuroanatomy

The atlas is not merely an academic resource; it has direct applications in various fields:

- Medical Education: As a core textbook for neuroanatomy courses.
- Clinical Practice: Assisting in diagnosis and understanding of neurological diseases.
- Research: Providing a detailed anatomical reference for experimental studies.
- Neurosurgical Planning: Aiding surgeons in understanding complex brain regions.

### The Evolution and Updates of Martin's Neuroanatomy

Since its initial publication, Martin's neuroanatomy atlas has undergone multiple editions, reflecting advances in neuroimaging, histology, and clinical neuroscience. Modern editions incorporate:

- Digital Enhancements: Interactive images and online resources.
- Updated Content: Incorporation of new research findings.
- Integration of Imaging Techniques: MRI, DTI, and functional neuroimaging visuals.

Staying current with these updates ensures that users benefit from the latest neuroanatomical knowledge.

### Conclusion: Why Choose Martin's Neuroanatomy Text and Atlas?

The neuroanatomy text and atlas Martin remains a cornerstone resource for anyone seeking a thorough, visual, and clinically relevant understanding of the nervous system. Its comprehensive coverage, detailed illustrations, and clear explanations make complex neuroanatomical concepts accessible and engaging.

Whether you are preparing for exams, enhancing your clinical practice, or conducting research,

Martin's atlas provides the depth and clarity necessary to master neuroanatomy. As neuroscience continues to evolve rapidly, having a reliable, well-structured resource like Martin's neuroanatomy atlas is invaluable in staying current and confident in your knowledge.

Embark on your neuroanatomy journey with Martin's neuroanatomy text and atlas?your definitive guide to the fascinating architecture of the nervous system.

**Question** What are the key features of the 'Neuroanatomy Text and Atlas' by Martin? Martin's 'Neuroanatomy Text and Atlas' offers detailed illustrations, comprehensive explanations of neuroanatomical structures, and clinical correlations to aid students and professionals in understanding the complex organization of the nervous system. How does Martin's neuroanatomy atlas enhance learning for medical students? The atlas combines high-quality color illustrations with concise textual descriptions, making complex neuroanatomical concepts more accessible and facilitating better visual understanding and retention. What topics are covered in the latest edition of Martin's Neuroanatomy Text and Atlas? The latest edition covers fundamental neuroanatomical structures, pathways, functional systems, neurovascular anatomy, and clinical applications, providing a comprehensive resource for understanding the nervous system. Is Martin's neuroanatomy atlas suitable for both students and clinicians? Yes, the atlas is designed to serve as a valuable resource for students learning neuroanatomy and for clinicians requiring detailed anatomical references in practice. How does Martin's neuroanatomy text integrate clinical correlations? The text includes clinical case examples, neuroanatomical landmarks, and implications of neuroanatomical variations, helping readers connect anatomy with clinical practice. What makes Martin's neuroanatomy atlas a popular choice among neuroanatomy resources? Its combination of clear, detailed illustrations, thorough explanations, and clinical relevance makes it a preferred resource for understanding complex neuroanatomical concepts. Are there online or digital versions of Martin's Neuroanatomy Text and Atlas available? Yes, most editions are available in digital formats or accompanying online resources, providing interactive features and easy access for modern learners.

**Related keywords:** neuroanatomy, brain atlas, Martin, neuroanatomy textbook, brain structure, neuroanatomy guide, anatomical atlas, nervous system, brain regions, neuroanatomy manual

**Read the full article online:** [Neuroanatomy Text And Atlas Martin](#)