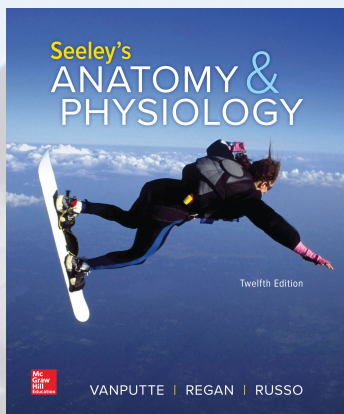


New Features You'll See in Wise's Laboratory Manual to accompany Seeley's Anatomy & Physiology, 12e



Title: Laboratory Manual to accompany Seeley's Anatomy & Physiology, 12e

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- 1 **Exercise 1**—Minor edits made to the text for clarity; revision of dependent and independent variables; changed MRI of head and modified sectioning plane photograph; deleted the term 'parasagittal plane'; added a bar graph in the Review section on data on resting heart rate, for student completion
- 2 **Exercise 2**—Added additional label to microscope illustration; minor revisions to 'Using the Microscope' section
- 3 **Exercise 3**—Updated figure 3.9 Osmosis Demonstration photo for clarity; new figure 3.12 illustration for Filtration
- 4 **Exercise 4**—Added more prominent lines to indicate cell membranes in several epithelial photographs; removed 'Cell Connections' section; added more photographs to be filled in; and added a place for student drawing in the Review section

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- 5 Exercise 6**—Made changes to highlight axial and appendicular skeleton in figure 6.1
- 6 Exercise 7**—Changed 'coxal' and 'innominate bone' to 'hip bone'
- 7 Exercise 8**—Changed 'cornu' to 'horn' for hyoid bone; described true and false ribs; and deleted terms 'vertebrosternal' and 'vertebrochondral'
- 8 Exercise 9**—Modified text for better understanding; additional labeling on several figures
- 9 Exercise 10**—Minor changes in text for clarity; added a figure illustrating skull sutures; added a question on pronation of the feet in the Review section
- 10 Exercise 11**—Made changes in text for clarity; changed the term 'summation' to 'multiple motor unit recruitment', and 'temporal summation' to 'wave summation'; revised Learning Objectives; relabeled 'PhLS' sequence for clarity
- 11 Exercise 12**—Modified and added Review section figures for labeling and coloring-in of origins and insertions
- 12 Exercise 13**—Modified Review section figures for labeling and coloring-in of origins and insertions
- 13 Exercise 15**—Replaced figure 15.2 photo of Deep Muscles of the Back; added illustration for student labeling in the Review section
- 14 Exercise 16**—Minor revisions to text for clarity
- 15 Exercise 17**—Revisions to text for clarity; added 'septum pellucidum' to section on ventricles; clarified that motor nerves also have a sensory component to them; added another section of brain to the Review section for labeling
- 16 Exercise 18**—Changed terms 'anterior gray horn' to 'ventral horn' and 'posterior gray horn' to 'dorsal horn'; added 'subdural space' in meninges section; added upper limb figure in Review section for labeling
- 17 Exercise 19**—Added 'extensor plantar response' for 'Babinski reflex'
- 18 Exercise 20**—Added general and specific senses to Introduction
- 19 Exercise 22**—Rewrote Afterimages section for accuracy; added a labeling figure in Review section.
- 20 Exercise 23**—Added a figure for wavelength and amplitude to Introduction; revised the Learning Objectives section; added a section and figure on the cochlea and response to sound; updated the hearing test to incorporate smartphone metronomes in addition to ticking stopwatches; added a thought question to the Review section

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- A blurred background image showing laboratory equipment, including beakers, test tubes, and pipettes on a lab bench.
- 21 **Exercise 24**—Added a section on negative feedback to the Introduction
 - 22 **Exercise 25**—Added a clinical question on lymphocyte counts to the Review section
 - 23 **Exercise 26**—Deleted 'agglutinogens' and 'agglutinins' and added 'antisera' to blood typing section
 - 24 **Exercise 27**—Added questions to Review section on blood flow, as well as two new labeling illustrations
 - 25 **Exercise 28**—Added new graphic to show relationship between electrical and mechanical events in the cardiac cycle; revised a question to have students trace and label an ECG
 - 26 **Exercise 30**—Replaced several cadaver photos with colorized photos to better show arteries
 - 27 **Exercise 31**—Replaced a cadaver photo with colorized photo to better show arteries; revised two other figures
 - 28 **Exercise 32**—Replaced several cadaver photos with colorized photos to make veins more visible
 - 29 **Exercise 33**—Minor revisions to Introduction and Objectives for clarity; deleted elephantiasis question and replaced it with labeling exercise in the Review section
 - 30 **Exercise 34**—Added two new Review questions on experimental design and arteriosclerosis
 - 31 **Exercise 35**—Several figures modified for clarity; new clinical question added to Review section
 - 32 **Exercise 36**—Revised Learning Objectives section and Review questions to match the sequence within exercise
 - 33 **Exercise 38**—Added two review questions on fats and potential health effects
 - 34 **Exercise 40**—Reorganized exercise for better flow; reorganized Review section; added a question on mapping the filtrate as it moves through the kidney
 - 35 **Exercise 41**—Added new questions in the Review section to reflect more clinical evaluation of data
 - 36 **Exercise 43**—Modified Learning Objectives to match the exercise organization