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Titolo	The Core Concepts of Physiology : A New Paradigm for Teaching Physiology / / by Joel Michael, William Cliff, Jenny McFarland, Harold Modell, Ann Wright
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ISBN	1-4939-6909-9
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVI, 153 p. 9 illus., 4 illus. in color.)
Disciplina	612
Soggetti	Human physiology Medical education Cell physiology Curriculums (Courses of study) Education—Curricula Human Physiology Medical Education Cell Physiology Curriculum Studies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Reforming science education/reforming physiology education -- What is the new paradigm and what is new about it?- What are the core concepts of physiology?- What does it mean to “unpack” a core concept?- The “unpacked” core concept of homeostasis -- The “unpacked” core concept of flow down gradients -- The “unpacked” core concept of cell-cell communication -- Organizing an introductory physiology course based on core -- Teaching physiology using the new paradigm: three examples -- Using core concepts in physiology in designing learning resources -- Conceptual assessment of student learning -- Core concepts and the physiology curriculum -- Extending the paradigm -- Summing up.
Sommario/riassunto	This book offers physiology teachers a new approach to teaching their subject that will lead to increased student understanding and retention

of the most important ideas. By integrating the core concepts of physiology into individual courses and across the entire curriculum, it provides students with tools that will help them learn more easily and fully understand the physiology content they are asked to learn. The authors present examples of how the core concepts can be used to teach individual topics, design learning resources, assess student understanding, and structure a physiology curriculum.