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	ISBN	1-4939-3734-0
	Edizione	[2nd ed. 2016.]
	Descrizione fisica	1 online resource (X, 292 p. 17 illus., 1 illus. in color.)
	Disciplina	571.1
	Soggetti	Animal physiology
		Vertebrates
		Animal anatomy
		Biochemistry
		Animal Physiology
		Animal Anatomy / Morphology / Histology
		Animal Biochemistry
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
	Nota di contenuto	Introduction -- Renal Morphology -- Initial Process in Urine Formation -- Transport of Inorganic Ions by Renal Tubules -- Transport of Fluid by Renal Tubules -- Transport of Organic Substances by Renal Tubules -- Diluting and Concentrating Mechanism -- Integrative Summary of Renal Function.
	Sommario/riassunto	This second edition offers a comprehensive overview of the physiological functions of vertebrate kidneys from a comparative viewpoint, with particular emphasis on nonmammalian vertebrates. The topics covered include renal structure; glomerular ultrafiltration; tubular transport of inorganic ions, organic substances, and fluid; and urine dilution and concentration. Mammalian renal function is only considered for purposes of comparison with nonmammalian renal function and as a frame of reference for some of the discussions. The major findings on nonmammalian renal function and the important unanswered questions raised by those findings are described in detail. As such, the book provides comprehensive information on comparative

renal function for biological scientists and advanced students of biology with some knowledge of physiology and a desire to know more about renal function in vertebrates, and for mammalian renal physiologists who wish to obtain a broader view of renal function.