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Titolo	Frontier cities [[electronic resource]] : encounters at the crossroads of empire // edited by Jay Gitlin, Barbara Berglund, and Adam Arenson
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Altri autori (Persone)	GitlinJay SokolovBarbara Berglund ArensonAdam <1978->
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Nota di contenuto	Front matter -- Contents -- Introduction: Local Crossroads, Global Networks, and Frontier Cities / Gitlin, Jay / Berglund, Barbara / Arenson, Adam -- I. Precedents: Imperial Plans and Commercial Ventures -- 1. The European Frontier City in Early Modern Asia: Goa, Macau, and Manila / Galloway, Alan -- 2. Colonial Projects and Frontier Practices: The First Century of New Orleans History / Usner, Daniel H. -- II. Urban Space and Frontier Realities in the Eighteenth Century -- 3. Insinuating Empire: Indians, Smugglers, and the Imperial Geography of Eighteenth-Century Montreal / Rushforth, Brett -- 4. On the Edge of the West: The Roots and Routes of Detroit's Urban Eighteenth Century / Marrero, Karen -- 5. People of the Pen, People of the Sword: Pittsburgh in 1774 / Gilman, Carolyn -- III. Networks and Flows: The Frontier City in the Nineteenth and Twentieth Centuries -- 6. Grain Kings, Rubber Dreams, and Stock Exchanges: How Transportation and Communication Changed Frontier Cities / West, Elliott -- 7. Frontier Ghosts Along the Urban Pacific Slope / Klinge, Matthew -- IV. Renderings: Visualizing and Reading the Frontier City -- 8. Locating the Frontier City in Time and Space: Documenting a Passing Phenomenon / Mahoney, Timothy R. -- 9. Mapping the Urban Frontier and Losing Frontier Cities / Kastor,

Peter J. -- 10. Private Libraries and Global Worlds: Books and Print Culture in Colonial St. Louis / Hoover, John Neal -- Epilogue: Frontier Cities and the Return of Globalization / Gitlin, Jay / Berglund, Barbara / Arenson, Adam -- Notes -- List of Contributors -- Index -- Acknowledgments

Sommario/riassunto

Macau, New Orleans, St. Louis, Pittsburgh, and San Francisco. All of these metropolitan centers were once frontier cities, urban areas irrevocably shaped by cross-cultural borderland beginnings. Spanning a wide range of periods and locations, and including stories of eighteenth-century Detroit, nineteenth-century Seattle, and twentieth-century Los Angeles, *Frontier Cities* recovers the history of these urban places and shows how, from the start, natives and newcomers alike shared streets, buildings, and interwoven lives. Not only do frontier cities embody the earliest matrix of the American urban experience; they also testify to the intersections of colonial, urban, western, and global history. The twelve essays in this collection paint compelling portraits of frontier cities and their inhabitants: the French traders who bypassed imperial regulations by throwing casks of brandy over the wall to Indian customers in eighteenth-century Montreal; Isaac Friedlander, San Francisco's "Grain King"; and Adrien de Pauger, who designed the Vieux Carré in New Orleans. Exploring the economic and political networks, imperial ambitions, and personal intimacies of frontier city development, this collection demonstrates that these cities followed no mythic line of settlement, nor did they move lockstep through a certain pace or pattern of evolution. An introduction puts the collection in historical context, and the epilogue ponders the future of frontier cities in the midst of contemporary globalization. With innovative concepts and a rich selection of maps and images, *Frontier Cities* imparts a crucial untold chapter in the construction of urban history and place.

2. Record Nr.	UNINA9910784646103321
Titolo	Fish biomechanics [[electronic resource] /] / edited by Robert E. Shadwick, George V. Lauder
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ISBN	1-281-05041-5 9786611050412 0-08-047776-3
Descrizione fisica	1 online resource (556 p.)
Collana	Fish physiology series ; ; v. 23
Altri autori (Persone)	ShadwickRobert Edward <1953-> LauderGeorge V
Disciplina	571.43197 597.01 597/.01
Soggetti	Biomechanics Fishes - Physiology
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Nota di contenuto	Cover Page; Title; Copyright; Fish Biomechanics; Contents; Contributors; Preface; Chapter 1: Mechanics of Respiratory Pumps; I. Introduction; II. Aquatic Respiratory Pumps; III. Aerial Respiratory Pumps; IV. Future Directions; References; Chapter 2: Skull Biomechanics and Suction Feeding in Fishes; I. Introduction; II. Skull Morphology and Mechanisms; III. Biomechanical Models of Skull Function; IV. Suction Feeding for Prey Capture; V. Ecomorphology of Fish Feeding; VI. Phylogenetic Patterns of Feeding in Fishes; VII. Summary and Conclusions; References Chapter 3: Functional Morphology of the Pharyngeal Jaw ApparatusI. Introduction; II. The Pharyngeal Jaw Apparatus of Perciform Fishes; III. Innovation in the Pharyngeal Jaw Apparatus; IV. Summary; References; Chapter 4: The Hydrodynamics and Structural Mechanics of the Lateral Line System; I. Introduction; II. General Function, Structure, and Organization; III. Hair Cell Micromechanics; IV. Lateral Line Mechanics and Hydrodynamics; V. Concluding Remarks; References; Chapter 5: Skin and Bones, Sinew and Gristle: the Mechanical Behavior of Fish

Skeletal Tissues; I. Introduction

II. A Primer on Mechanical Behavior III. Bone; IV. Cartilage; V. Tendon; VI. Skin; VII. Whole Body Mechanics; VIII. Conclusions; References; Chapter 6: Functional Properties of Skeletal Muscle; I. Introduction; II.

Ultrastructure; III. Fiber Types; IV. Patterns of Innervation; V. Mechanics of Contraction; VI. Scaling; VII. Axial Variation; VIII. Effects of Temperature; IX. Summary; X. Future Directions; References; Chapter 7: Structure, Kinematics, And Muscle Dynamics In Undulatory Swimming;

I. Introduction; II. Myomere Structure and Force Transmission? Pathways; III. Steady Swimming Kinematics

IV. Muscle Dynamics Along the Body in Steady Swimming V.

Specializations in Thunniform Swimmers; VI. Summary and Future Directions; References; Chapter 8: Stability and Maneuverability; I.

Introduction; II. General Principles; III. Stability; IV. Maneuvering; V.

Future Directions; References; Chapter 9: Fast-start Mechanics; I.

Introduction; II. Initiation of the Fast Start; III. Muscular Contraction

Acts to Bend the Fish; IV. Stage 1 Body Bending Occurs with a Traveling Wave of Curvature; V. Muscle Power Production and Force Transmission to the Water

VI. Hydrodynamic Forces Accelerate the Body VII. Variations in Fast-Start Performance; VIII. Conclusions; IX. Future Directions; References;

Chapter 10: Mechanics of Pectoral Fin Swimming in Fishes; I.

Introduction; II. Pectoral Fin Morphology; III. Motor Patterns of Pectoral

Fin Locomotion; IV. Pectoral Fin Kinematics; V. Fluid Dynamics; VI.

Pectoral Fin Swimming Performance; VII. Ecomorphology of Pectoral Fin

Propulsion; VIII. Summary and Areas for Future Research; References;

Chapter 11: Hydrodynamics of Undulatory Propulsion; I. Introduction; II.

Classical Modes of Undulatory Propulsion

III. Theory of Undulatory Propulsion

Sommario/riassunto

The first in two decades to exclusively integrate physiological and biomechanical studies of fish locomotion, feeding and breathing, making this book both comprehensive and unique. This book reviews and integrates recent developments in research on fish biomechanics, with particular emphasis on experimental results derived from the application of innovative new technologies to this area of research, such as high-speed video, sonomicrometry and digital imaging of flow fields. The collective chapters, written by leaders in the field, provide a multidisciplinary view and synthesis of the latest i
