Aging and the Muscle-Bone Relationship
Susan A. Novotny, Gordon L. Warren, and Mark W. Hamrick
This review looks at muscle-bone relationships and how aging may affect these relationships.

Evolutionary Physiology of Bone: Bone Metabolism in Changing Environments
Alison H. Doherty, Cameron K. Ghallambor, and Seth W. Donahue
This review discusses the physiology of bone and its role in mechanical and calcium homeostases from an evolutionary perspective.

Sex-Based Differences in Skeletal Muscle Kinetics and Fiber-Type Composition
K. M. Haizlip, B. C. Harrison, and L. A. Leinwand
This review discusses differences in skeletal muscle fiber-type composition and contractility between sexes and how these differences may be hormonally regulated.

In Vivo Fluorescence Microscopy: Lessons From Observing Cell Behavior in Their Native Environment
Myunghwan Choi, Sheldon J. J. Kwok, and Seok Hyun Yun
Review of how recent technical advances in intravital microscopy have enabled unprecedented access to cellular physiology in various organs of mice in normal and diseased states.

GLP-1: A Mediator of the Beneficial Metabolic Effects of Bariatric Surgery?
Sean Manning, Andrea Pucci, and Rachel L. Batterham
This review discusses how glucagon-like peptide-1 contributes to the metabolic benefits of Roux-en-Y gastric bypass and sleeve gastrectomy.

Programming and Inheritance of Parental DNA Methylocmes in Vertebrates
Weimin Ci and Jiang Liu
This review focuses on recent advances in how offspring obtains the DNA methylation information from parents in vertebrates.

Digestive Adaptations of Aerial Lifestyles
Edwin R. Price, Antonio Brun, Enrique Caviedes-Vidal, and William H. Karasov
Review of evidence that birds and bats have lower spare digestive capacity and partially compensate for smaller intestines with increased paracellular nutrient absorption.