Sex and Gender Impact Immune Responses to Vaccines Among the Elderly
Ashley L. Fink and Sabra L. Klein
This review shows that sex (i.e., biological differences) and gender (i.e., social and cultural norms) affect the responses to and outcome of recommended vaccines in older-aged individuals (i.e., 65 years and older).

Skeletal Muscle Microvasculature: A Highly Dynamic Lifeline
Claire Latroche, Cyril Gitiaux, Fabrice Chrétien, Isabelle Desguerre, Rémi Mounier, and Bénédicte Chazaud
Vessels participate in the control of skeletal muscle homeostasis through their high plasticity and close interactions with muscle cells.

Integration of ChREBP-Mediated Glucose Sensing into Whole Body Metabolism
Floriane Baraille, Julien Planchaix, Renaud Dentin, Sandra Guilmeau, and Catherine Postic
This review details major findings that have advanced our knowledge of glucose sensing.

Plasma Membrane Repair: A Central Process for Maintaining Cellular Homeostasis
Alisa D. Blazek, Brian J. Paleo, and Noah Weisleder
Plasma membrane repair involves active resealing of membrane disruptions to maintain cellular homeostasis through the action of specific proteins.

ASICS Mediate Pain and Inflammation in Musculoskeletal Diseases
Ramy E. Abdelhamid and Kathleen A. Sluka
Musculoskeletal tissue acidosis results in pain; ASICS detect musculoskeletal tissue acidosis and mediate musculoskeletal nociception.