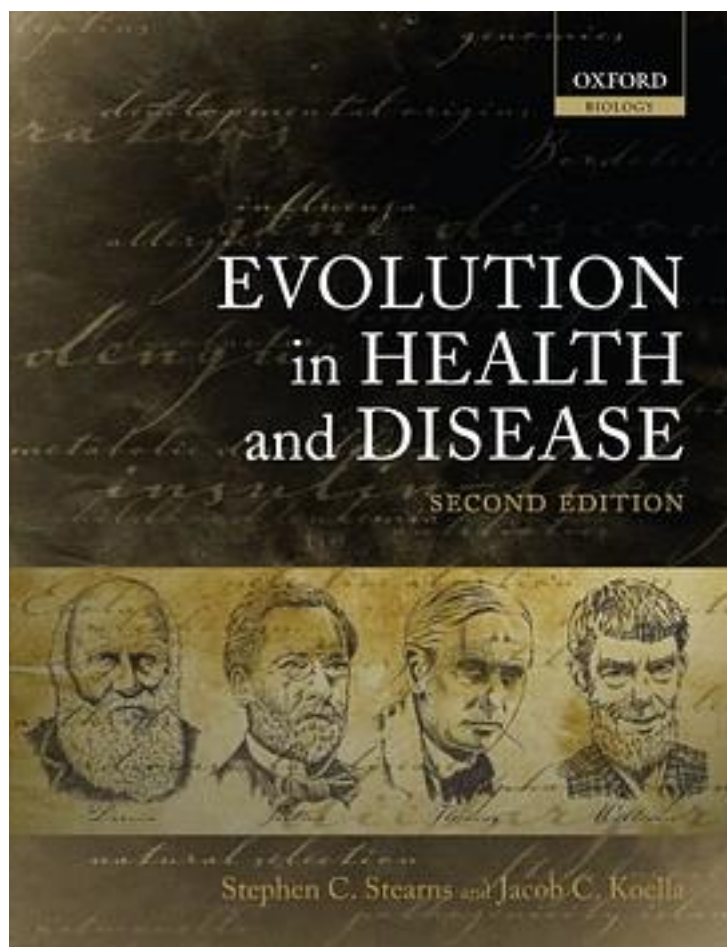


# Evolution in Health and Disease



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In this fully revised and updated edition, the editors have integrated a completely new set of contributions from the leading researchers in the field to describe the latest research in evolutionary medicine, providing a fresh summary of this rapidly expanding

field 10 years after its predecessor was first compiled. It continues to adopt a broad approach to the subject, drawing on medically relevant research from evolutionary genetics, human behavioural ecology, evolutionary microbiology (especially experimental evolution of virulence and resistance), the evolution of aging and degenerative disease, and other aspects of biology or medicine where evolutionary approaches make important contributions. Evolution in Health and Disease describes how evolutionary thinking gives valuable insights and fresh perspectives into human health and disease, establishing evolutionary biology as an essential complementary science for medicine. Integrating evolutionary thought into medical research and practice helps to explain the origins of many medical conditions, including diabetes, obesity, cardiovascular disease, asthma, allergies, other autoimmune diseases, and aging. It also provides life-saving insights into the evolutionary responses of pathogens to antibiotics, vaccinations, and other human interventions. Why do we grow old? How can we stay healthy as we age? The book discusses these and many other fascinating questions, as well as suggesting exciting possibilities for future treatment and research. This research level text is suitable for graduate level students and researchers in the fields of evolutionary (Darwinian) medicine, evolutionary biology, anthropology, developmental biology and genetics. It will also be of relevance and use to medical researchers and doctors.

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