

"This book introduces, explains and elaborates on the very interesting fact that some genes produce proteins that serve different (and important) functions in the same organism. This is a remarkable story well told and interesting from both evolutionary and functional perspectives."

—Russell D. Fernald,
Stanford University

"It has been a dogma of evolutionary biology that gene duplication precedes the evolution of new gene and protein function. Joram Piatigorsky stands this scenario on its head by showing that, in the case of lens crystallins and probably other protein families, functional diversity can precede gene duplication. His revolutionary perspective provides unexpected insight into how biological systems evolve."

—Austin Hughes,
Indiana University

"Every textbook of molecular evolution has a section on gene sharing, but this is the first book entirely devoted to the topic. Piatigorsky considers almost all aspects of gene sharing, provides numerous examples, and discusses the importance and contribution of gene sharing to evolution. He argues forcefully that gene sharing is widespread in many genomes. His arguments will likely alter the prevailing view of gene sharing as a unique phenomenon to crystallins."

—Jianzhi George Zhang,
University of Michigan

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