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	<ul> <li>genes</li> <li>3.5 The head, heart, ears, and eyes4 'Albinism' and the Failure of Normal Melanosome Maturation; 4.1 Background; 4.2 The melanosomal matrix; 4.3 The enzymes that catalyze melanogenesis; 4.4 Membrane proteins that regulate the internal milieu of the melanosome; 4.5 Protein processing and routing to the maturing melanosome; 4.6 Melanosome transport; 5 Pigment-Type Switching; 5.1 Introduction; 5.2 Yellow phenotypes; 5.3 Melanin pigment; 5.4 Melanogenesis and the eumelanin/pheomelanin switch mechanism; 5.5 Signaling the switch mechanism at the cellular level; 5.6 Yellow genes Part III Technology and Resources6 Novel Mouse Pigmentary Mutants Generated by Genetic Manipulation; 6.1 Introduction; 6.2 Mouse transgenesis: generation of genetically engineered mice; 6.3 Coat-color transgenic mice; 6.4 The coat-color mutants generated by gene targeting; 6.5 Influence of the genetic background; 6.6 Conclusions; 7 Other Species and Other Resources; 7.1 Introduction; 7.2 Resources; 7.3 Other species: References: Index</li> </ul>
Sommario/riassunto	Serving the needs of pigment cell biologists, cellular physiologists, developmental geneticists, researchers interested in melanoma and more, this new book showcases a blend of new technologies and new insights in the field of pigmantary genetics of mice, with comparative information on other animals. Graduate students can learn here the terminology and scope of the field, and animal fanciers can discover the genetics behind common color variants of mammals. The book is hailed for being written by four of the premier scientists in the field. These authors aim to present the molecular /cellular