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""2. Melanins and Carotenoids as Feather Colorants and Signals """"""2.1 INTRODUCTION""; ""2.2 MECHANISMS OF PRODUCTION OF MELANIN AND CAROTENOID COLORATION ""; ""2.3 GENETIC AND ENVIRONMENTAL CONTROL ""; ""2.3.1 Genetic Control of Color Traits ""; ""2.3.2 Environmental Effects and the Information Content of Ornamental Coloration ""; ""2.3.2.1 Pigment access ""; ""2.3.2.2 Parasites""; ""2.3.2.3 Nutrition""; ""2.3.2.4 Social status and color ""; ""2.3.3 The Information Content of Pigment-based Color Signals ""; ""2.3.3.1 Morphs ""; ""2.3.3.2 Continuous variation in color display"" ""2.3.3.3 Degree of detail in single and multiple pigment signals """"""2.4 THE FUNCTION OF CAROTENOID AND MELANIN COLORATION ""; ""2.5 BENEFITS TO ASSESSMENT OF PIGMENT DISPLAYS ""; ""2.5.1 Mate Choice ""; ""2.5.1.1 Direct benefits""; ""2.5.1.2 Good genes ""; ""2.5.1.3 Reproductive success ""; ""2.5.2 Status Signaling and Receiver Benefits ""; ""2.6 CHAPTER SUMMARY ""; ""2.7 ACKNOWLEDGMENTS ""; ""2.8 LITERATURE CITED""; ""3. Odors and Chemical Signaling""; ""3.1 INTRODUCTION""; ""3.2 ODORS DERIVED FROM THE ENVIRONMENT""; ""3.2.1 Plants ""; ""3.2.2 Heterospecific Animals"" ""3.3 ODORS DERIVED FROM BIRDS """"""3.3.1 Odors, Chemical Signals and Pheromones""; ""3.3.2 Production of Avian Odors ""; ""3.4 SOCIAL CONTEXTS OF AVIAN ODORS""; ""3.4.1 Using Avian-derived Odorsto Locate Home ""; ""3.4.2 Discrimination of Own-Nest Odor ""; ""3.4.3 Discrimination of Self, Conspecific and Mate Odor ""; ""3.4.4 Chicks, Parenting and Odor Learning ""; ""3.4.5 Odors Linked with Courtship or Other Displays""; ""3.5 IMPLICATIONS OF AVIAN ODOR AS A SIGNAL ""; ""3.5.1 A General Role for Honest Odor Signals in Birds?"" ""3.5.2 Prospects for Odors Related to Kin Selection and Mating System ""

Sommario/riassunto

The second part of volume 6 discusses sexual selection of ultraviolet and structural signals; melanins and carotenoids as feather colorants and signals; sexual selection and auditory signaling; odors and chemical signaling; sexual dimorphism; sexual selection, signal selection and the handicap principle; courtship and copulation; sexual conflict and its implications for fitness; intra- and extra-pair paternity; parental care (including cooperative breeding); brood parasitism in birds; applications of reproductive biology to bird conservation and population management; embryogenesis and development; molecular genetics of avian sex determination and gonadal development. Many new illustrations are provided throughout the volume.