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Autore	Keene Alex
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction : the emergence of the Mexican cavefish as an important model system for understanding phenotypic evolution / Clifford J. Tabin -- Part I. Ecology and evolution. Cave exploration and mapping in the Sierra de El Abra region / William R. Elliott -- Hydrogeology of caves in the Sierra de El Abra region / Luis Espinasa and Monika Espinasa -- Cave biodiversity and ecology of the Sierra de El Abra region / William R. Elliott -- Phylogeny and evolutionary history of <i>Astyanax mexicanus</i> / C.P. Ornelas-Garcia and C. Pedraza-Lara -- Part II. Genetic diversity and quantitative genetics. Regressive evolution : testing hypotheses of selection and drift / Richard Borowsky -- Mapping the genetic basis of troglomorphy in <i>Astyanax</i> : how far we have come and where do we go from here? / Kelly O'Quin and Suzanne E. McGaugh -- Selection through standing genetic variation / Nicholas Rohner -- Part III. Morphology and development. Pigment regression and albinism in <i>Astyanax</i> cavefish / William R. Jeffery, Li Ma, Amy Parkhurst and Helena Bilandzija -- Molecular mechanisms of eye degeneration in cavefish / Yoshiyuki Yamamoto -- The evolution of the cavefish craniofacial complex / Joshua B. Gross and Amanda K. Powers -- Evolution and development of the cavefish oral jaws : adaptations for feeding / A.D.S. Atukorala and Tamara A. Franz-Odenaal -- Neural development and evolution in <i>Astyanax mexicanus</i> : comparing

cavefish and surface fish brains / Sylvie Retaux, Alexandre Alie, Maryline Blin, Lucie Devos, Yannick Elipot and Helene Hinaux -- Part IV. Behavior. The evolution of sensory adaptation in *Astyanax mexicanus* / M. Yoshizawa -- Feeding behavior, starvation response, and endocrine regulation of feeding in Mexican blind cavefish (*Astyanax fasciatus mexicanus*) / Helene Volkoff -- Investigating the evolution of sleep in the Mexican cavefish / Erik R. Duboue and Alex C. Keene -- Daily rhythms in a timeless environment : circadian clocks in *Astyanax mexicanus* / A.D. Beale and D. Whitmore -- Social behavior and aggressiveness in *Astyanax* / Helene Hinaux, Sylvie Retaux and Yannick Elipot -- Spatial mapping in perpetual darkness : EvoDevo of behavior in *Astyanax mexicanus* cavefish / Ana Santacruz, Oscar M. Garcia, Maryana Tinoco-Cuellar, Emma Rangel-Huerta and Ernesto Maldanato -- Part V. Future applications. Transgenesis and future applications for cavefish research / Kathryn M. Tabor and Harold A. Burgess -- Concluding remarks : the *Astyanax* community / William R. Jeffery.

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