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Nota di contenuto	Frontmatter -- Contents -- Acknowledgements -- List of Figures -- 1. Introduction -- 2. Different views on scientific understanding -- 3. Scientific understanding, scientific explanation, and why they cannot be torn apart -- 4. Is scientific understanding an ability? -- 5. Scientific understanding of the genetic regulation of vertebrate development and how zebrafish made it possible -- 6. Grasping and explaining – an account of scientific understanding -- 7. Conclusion -- Bibliography
Sommario/riassunto	Understanding is an ability manifested by grasping relations of a phenomenon and articulating new explanations. Hence, scientific understanding is inextricably intertwined with and not possible without explanation, and understanding is not a type of propositional knowledge. Anna Elisabeth Höhl provides a novel philosophical account of scientific understanding by developing and defending necessary and sufficient conditions for the understanding that scientists achieve of the phenomena they are researching. This account of scientific understanding is based on and supported by a detailed investigation of an episode from scientific practice in biology.