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Titolo	Tools for critical thinking in biology // Stephen H. Jenkins
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Descrizione fisica	1 online resource (369 p.)
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Soggetti	Biology - Research - Philosophy Causation Critical thinking
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Discovery and causation -- Observations as evidence -- From observations to data -- Experiments: the gold standard for research -- Correlations, comparisons, and causation -- The diverse use of models in biology -- Genes, environments, and the complexity of causation -- From causes to consequences: considering the weight of evidence -- Science as a social process -- Critical thinking about climate change.
Sommario/riassunto	The American Association for the Advancement of Science's report on Vision and Change in Undergraduate Biology Education suggests that instructors ""can no longer rely solely on trying to cover a syllabus packed with topics"" but rather should ""introduce fewer concepts but present them in greater depth."" They further suggest that the principles embodied in a set of core concepts and competencies should be the basis for all undergraduate biology courses, including those designed for nonmajors. The theme of Tools for Critical Thinking in Biology will be the first and most fundamental of these