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Nota di contenuto	1. Introduction (Dina Tsybulsky and Tali Tal) -- Part 1. Foundations of Citizen Science in Biology and Environmental Education: Theoretical Perspectives and Implications -- 2. Mainstreaming Citizen Science in the Classroom (Yaëla Golumbic) -- 3. Promoting Expansive Framings by Design: How Citizen Science Can Foster Quality Education in Schools (Yael Bar Nes, Yael Kali, Ornit Sagy, and Amram Eshel) -- 4. Environmental Citizen Science for Environmental Citizenship: An Educational Innovation in Biology and Environmental Education for Green Transition and Sustainable Development (Andreas Ch. Hadjichambis, Demetra Hadjichambi, and Yiannis Georgiou) -- Part 2. Incorporating Citizen Science in K-12 Biology and Environmental Education: Opportunities and Challenges -- 5. Engaging Students with Citizen Science Data: Gateway to New Scientific Frontiers (Michal Dvir and Dina Tsybulsky) -- 6. Teaching Ecology and Inquiry in the Field through Citizen Science - Insights and Recommendations (Nirit Lavie Alon, Tali Tal, Hila Shefet Barkae, and Lavi Oren) -- 7. The Pedagogical Potential of Citizen Science Projects to Cultivate Scientific Reasoning,

Statistical Reasoning, and the Nature of Science Understanding (Haya Ben Simon and Dina Tsybulsky) -- 8. What do Teachers Need to Bring Citizen Science into the Classroom? Lessons Learned from the Snuffelfiets Project (Bart de Groot and Jelle Boeve-de Pauw) -- Part 3. Fostering Engagement and Identity through Citizen and Community Science -- 9. Incorporating Community and Citizen Science into Elementary Schools: Collaborative Partnerships and Student Science Identity Development in California Forests (Jadda M. Miller, Heidi L. Ballard, Alexandra I. Race, Shulong Yan, Sol Henson, Evan F. Portier, and Emma R. Schectman) -- 10. Flebocollect: School Citizen Science to Study Leishmaniosis Disease and the Impact of Ecosystem Alteration on Global Health (Rosa Gálvez, Ángela Bermejo, Marcos López de Felipe, Tarcisio Milagres, and Ana I. Mora-Urda) -- 11. Community Versus Citizen Science: An Activist-Based Distinction (Yael Silver and Ayelet Shavit) -- 12. Epilogue (Dina Tsybulsky and Tali Tal).

Sommario/riassunto

This edited volume explores the exciting and increasingly important role of citizen science in biology and environmental education. This comprehensive collection provides valuable insights on how to design, implement, and explore citizen science educational initiatives. Featuring contributions from leading experts, the book provides a range of research perspectives and pedagogical tools to facilitate the incorporation of citizen science into the classroom. It showcases contemporary examples worldwide, highlighting the research aspect of citizen science educational projects. This book is a valuable resource for researchers, educators, and individuals interested in citizen science and its contribution to biology and environmental education. It provides readership with state-of-the-art information on the latest advances in research and practice in the field and encourages an active participation in citizen science endeavors.
