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| Autore | Kohda Masanori |
| Titolo | Self-Recognition in Fish : Exploring the Mind in Animals // by Masanori Kohda, Shumpei Sogawa |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025 |
| ISBN | 981-9671-63-9 |
| Edizione | [1st ed. 2025.] |
| Descrizione fisica | 1 online resource (XVI, 206 p. 34 illus.) |
| Disciplina | 156 591.513 |
| Soggetti | Cognition in animals Animal culture Ecology Animal behavior Evolution (Biology) Zoology Animal Cognition Animal Science Behavioral Ecology Evolutionary Ecology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Chapter 1. Fish Brains aren't Primitive, After All -- Chapter 2. Fish, Too, Recognize Others by Face -- Chapter 3. History of Research into Animals' Mirror Self-Recognition -- Chapter 4. First Successful Experiment on Fish MSR -- Chapter 5. How the World Received Our Published Paper -- Chapter 6. Do Fish Recognize Their Mirror Images as Itself via Face-Recognition Like Humans? -- Chapter 7. Fishes' Meta Self-awareness and Issues Related to MSR -- Chapter 8. When Exactly Do Cleaner Wrasse Recognize The Mirror Image As The Self? -- Chapter 9. Study of Eureka-Moments in Fish -- Chapter 10. Epilogue and future perspectives. |
| Sommario/riassunto | This book describes the process of making the major breakthrough in the study of animal self-awareness using fish. The discovery led by the |

author's team, proving the mirror self-recognition ability of fish, is vividly documented as they share the process of making, testing and verifying hypotheses and developing further hypotheses. The clear experimental results demonstrate the remarkable self-awareness in animals, overturning the conventional view and providing a key to understanding the origin of human self-awareness. Starting from the current understanding of fish brains, individual recognition by its face, the following chapters introduce the series of the authors' research projects designed to understand mirror self-recognition (MSR) in animals. The sequence of the research into fish's MSR is documented, including how it started, the failures and successes, and the struggles. Additional tests carried out in response to various criticisms of the work have led to a re-examination of the research methods used prior to the author's work. The book then addresses the question of exactly when and how some fish recognize themselves in a mirror, exploring the self-awareness and the "mind", in other word "Eureka moment" in fish. This book points out and overturns the contradictions in conventional wisdom based on anthropocentrism and hypotheses about the evolution of self-awareness, proposing a new hypothesis that the self-awareness of humans and fish will be homologous. The book takes readers on an engaging exploration of the scientific experiments and the remarkable discovery of animal intelligence.
