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Nota di contenuto	Part I. Cognition of tool use. 1. Three ingredients for becoming a creative tool-user / Josep Call ; 2. Ecology and cognition of tool use in chimpanzees / Christophe Boesch ; 3. Chimpanzees plan their tool use / Richard W. Byrne, Crickette M. Sanz and David B. Morgan -- Part II. Comparative cognition. 4. Insight, imagination and invention : tool understanding in a non-tool-using corvid / Nathan J. Emery ; 5. Why is tool use rare in animals? / Gavin R. Hunt, Russell D. Gray and Alex H. Taylor ; 6. Understanding differences in the way human and non-human primates represent tools : the role of teleological-intentional information / April M. Ruiz and Laurie R. Santos ; 7. Why do woodpecker finches use tools? / Sabine Tebbich and Irmgard Teschke

-- Part III. Ecology and culture. 8. The social context of chimpanzee tool use / Crickette M. Sanz and David B. Morgan ; 9. Orangutan tool use and the evolution of technology / Ellen J.M. Meulman and Carel P. van Schaik ; 10. The Etho-Cebus Project : stone-tool use by wild capuchin monkeys / Elisabetta Visalberghi and Dorothy Fragaszy -- Part IV. Archaeological perspectives. 11. From pounding to knapping : how chimpanzees can help us model hominin lithics / Susana Carvalho, Tetsuro Matsuzawa and William C. McGrew ; 12. Early hominin social learning strategies underlying the use and production of bone and stone tools / Matthew V. Caruana, Francesco d'Errico and Lucinda Backwell ; 13. Perspectives on stone tools and cognition in the early Paleolithic record / Shannon P. McPherron.

Sommario/riassunto

The last decade has witnessed remarkable discoveries and advances in our understanding of the tool using behaviour of animals. Wild populations of capuchin monkeys have been observed to crack open nuts with stone tools, similar to the skills of chimpanzees and humans. Corvids have been observed to use and make tools that rival in complexity the behaviours exhibited by the great apes. Excavations of the nut cracking sites of chimpanzees have been dated to around 4-5 thousand years ago. Tool Use in Animals collates these and many more contributions by leading scholars in psychology, biology and anthropology, along with supplementary online materials, into a comprehensive assessment of the cognitive abilities and environmental forces shaping these behaviours in taxa as distantly related as primates and corvids.