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Nota di contenuto	Foreword; Acknowledgements; Contents; Chapter 1: Five Arguments for a New Theory of Biological Individuation; Chapter 2: What is a Probabilistic Process? Summary of the chapter; Chapter 3: The Determinism of Molecular Biology Summary of the chapter; Chapter 4: The Contradiction in Genetic Determinism Summary of the chapter; Chapter 5: Self-Organisation Does Not Resolve the Contradiction in Genetic Determinism Summary of the chapter; Chapter 6: Hetero-organisation Summary of the chapter; Chapter 7: Biology's Blind Spot Summary of the chapter Conclusion: A Research Programme and Ethical Principle based on Ontophylogenesis Glossary; List of Abbreviations; List of Figures; Bibliography; Author Index; Subject Index
Sommario/riassunto	In the 17th century, Descartes put forth the metaphor of the machine to explain the functioning of living beings. In the 18th century, La Mettrie extended the metaphor to man. The clock was then used as the paradigm of the machine. In the 20th century, this metaphor still held but the clock was replaced by a computer. Nowadays, the organism is viewed as a robot obeying signals emanating from a computer program controlled by genetic information. This book shows that such a

conception leads to contradictions not only in the theory of biology but also in its experimental research program, thereby
