

1. Record Nr.	UNINA9911099560703321
Autore	Perrier Edmond <1844-1921.>
Titolo	The philosophy of zoology before Darwin : a translated and annotated version of the original French text by Edmond Perrier : originally published by Felix Alcan, Paris in 1884 / / translated by Alex McBirney, with annotations by Stanton Cook and Gregory Retallack
Pubbl/distr/stampa	Dordrecht ; ; New York, : Springer, c2009
ISBN	90-481-3009-3
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (294 p.)
Altri autori (Persone)	McBirneyAlexander R CookStanton A RetallackGreg J <1951-> (Greg John)
Disciplina	590.9
Soggetti	Zoology - History Zoology - Philosophy Evolution - Philosophy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Aristotle -- The Roman Period -- The Middle Ages and Renaissance -- Evolution of the Concept of Species -- Philosophers of the XVIIIth Century -- Buffon -- Lamarck -- Etienne Geoffroy Saint-Hilaire -- Georges Cuvier -- Debate between Cuvier and Geoffroy Saint-Hilaire -- Goethe -- Dugès -- The German Natural Philosophers -- The Theory of the Organic Types and its Consequences -- Louis Agassiz -- The Lower Animals -- Cell Theory and the Constitution of the Individual -- Embryology -- Species and their Modifications.
Sommario/riassunto	This long-overlooked survey of the development of evolutionary theory is by far the most thorough and balanced account of its kind. Unlike most of the recent Anglo-centric literature that tends to focus almost exclusively on Darwin and natural selection, it follows the work of naturalists of many nationalities who used paleontology, comparative anatomy, and embryology in order to establish a linear continuity of evolving life though the long span of geological time. Thorough historical survey of the development of the concept of evolution before the publication of Darwin's 'The Origin of Species'. Providing an

alternative view of the recent literature and journal articles commemorating Darwin's 200th birthday and the 150th anniversary of publication of 'The Origin of Species'. Richly annotated with up to date information and explanations of the changing concepts and terminology as well as featuring an extensive Glossary and Biographical index.

2. Record Nr.	UNINA9911149539503321
Autore	Adamatzky Andrew
Titolo	Physarum machines : computers from slime mould / / Andrew Adamatzky
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific Pub. Co., 2010
ISBN	9786613145192 9781283145190 1283145197 9789814327596 981432759X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (280 p.)
Collana	World Scientific series on nonlinear science. Series A, Monographs and treatises ; ; v. 74
Disciplina	004 006.3/2
Soggetti	Physarum Physarum polycephalum Computers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; Acknowledgments; Contents; 1. From reaction-diffusion to Physarum computing; 2. Experimenting with Physarum; 3. Physarum solves mazes; 4. Plane tessellation; 5. Oregonator model of Physarum growing trees; 6. Does the plasmodium follow Toussaint hierarchy?; 7. Physarum gates; 8. Kolmogorov-Uspensky machine in plasmodium; 9. Recon guring Physarum machines with attractants; 10. Programming Physarum machines with light; 11. Routing Physarum with repellents;

12. Physarum manipulators; 13. Physarum boats; 14. Manipulating substances with Physarum machine; 15. Road planning with slime mould

EpilogueBibliography; Index

Sommario/riassunto

A Physarum machine is a programmable amorphous biological computer experimentally implemented in the vegetative state of true slime mould *Physarum polycephalum*. It comprises an amorphous yellowish mass with networks of protoplasmic veins, programmed by spatial configurations of attracting and repelling gradients. This book demonstrates how to create experimental Physarum machines for computational geometry and optimization, distributed manipulation and transportation, and general-purpose computation. Being very cheap to make and easy to maintain, the machine also functions on a wide range of s
