

1. Record Nr.	UNINA9910253998303321
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Titolo	Fossil Horses of South America : Phylogeny, Systemics and Ecology / / by José Luis Prado, María Teresa Alberdi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-55877-3
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (X, 150 p. 44 illus., 23 illus. in color.)
Collana	The Latin American Studies Book Series, , 2366-3421
Disciplina	569.72
Soggetti	Paleontology Geobiology Animal ecology Paleontology Biogeosciences Animal Ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Taxonomy nomenclature -- Collections around the word -- Systematic and phylogeny -- Iostratigraphy and biogeography -- Ancient feeding ecology and niche differentiation of Pleistocene horses -- Horses and megafauna extinction.
Sommario/riassunto	This book provides an update on the phylogeny, systematics and ecology of horses in South America based on data provided over the past three decades. The contemporary South American mammalian communities were shaped by the emergence of the Isthmus of Panama and by the profound climatic oscillations during the Pleistocene. Horses were a conspicuous group of immigrant mammals from North America that arrived in South America during the Pleistocene. This group is represented by 2 genera, Hippidion and Equus, which include small species (Hippidion devillei, H. saldiasi, E. andium and E. insulatus) and large forms (Equus neogeus and H. principale). Both groups arrived in South America via 2 different routes. One model designed to explain this migration indicates that the small forms used the Andes corridor, while larger horses used the eastern route and arrived through some

coastal areas. Molecular dating (ancient DNA) suggests that the South American horses separated from the North American taxa (caballines and the New World stilt-legged horse) after 3.6 - 3.2 Ma, consistent with the final formation of the Panamanian Isthmus. Recent studies of stable isotopes in these horses indicate an extensive range of ^{13}C values cover closed woodlands to C_4 grasslands. This plasticity agrees with the hypothesis that generalist species and open biome specialist species from North America indicate a positive migration through South America.
