

Research



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Foraging history of individual elephants using DNA metabarcoding

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Individual animals should adjust diets according to food availability. We used DNA metabarcoding to construct individual-level dietary timeseries for elephants from two family groups in Kenya varying in habitat use, social position and reproductive status. We detected at least 367 dietary plant taxa, with up to 137 unique plant sequences in one fecal sample. Results matched well-established trends: elephants tended to eat more grass when it rained and other plants when dry. Nested within these switches from ‘grazing’ to ‘browsing’ strategies, dietary DNA revealed seasonal shifts in food richness, composition and overlap between individuals. Elephants of both families converged on relatively cohesive diets in dry seasons but varied in their maintenance of cohesion during wet seasons. Dietary cohesion throughout the timeseries of the subdominant ‘Artists’ family was stronger and more consistently positive compared to the dominant ‘Royals’ family. The greater degree of individuality within the dominant family’s timeseries could reflect more divergent nutritional requirements associated with calf dependency and/or priority access to preferred habitats. Whereas theory predicts that individuals should specialize on different foods under resource scarcity, our data suggest family bonds may promote cohesion and foster the emergence of diverse feeding cultures reflecting links between social behaviour and nutrition.

Foraging History Fs F

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Fodder Crops and Amenity Grasses Beat Boller,Ulrich K. Posselt,Fabio Veronesi,2010-01-14 Grassland farming in Europe was already established during the settlement of the first farmers together with their domesticated animals after the last ice age Since then grassland provides the forage basis to feed ruminant animals for the production of meat and milk Depending on the ecological conditions and intensity of usage various plant communities with different species developed displaying a rich biodiversity With the introduction of improved crop rotations at the end of the 16th century grasses and legumes were also grown to an important extent as forage crops on arable land In the last decades the importance of amenity grasses increased markedly due to the demand of the society for new usages like landscape protection Around 1900 interested farmers and academics identified the need for grassland improvement through systematic selection and seed production This marks the beginning of breeding and research in companies but also at universities and specialized research institutes Plant collection started with many of the species that are still of importance today The collected materials were grouped according to the intended use and some type of phenotypic selection was applied Seed multiplication of such populations was performed in pure stands and the harvested seed was marketed Although the vegetative biomass and its quality are of utmost importance in forage crop breeding it is the seed yield potential which determines the commercial success of a new variety *Forage Variety Update for Wisconsin* ,2009 Trial results include legumes and grasses Legumes tested include alfalfa birdsfoot trefoil and red clover Grasses include orchardgrass reed canarygrass ryegrass smooth brome grass tall fescue and timothy A Selected Guide to the Literature of the Flowering Plants of Mexico Ida Kaplan Langman,2018-01-09 This bibliography is a guide to the literature on Mexican flowering plants beginning with the days of the discovery and conquest of Mexico by the Spaniards in the early sixteenth century South Dakota State Government Publications South Dakota State Library,1977 *South Dakota State Government Publications* South Dakota State Library. State Publications Distribution Center,1975 *Proceedings* ,1983 *Developing Climate Resilient Grain and Forage Legumes* Uday C Jha,Harsh Nayyar,Shiv Kumar Agrawal,Kadambot H. M. Siddique,2022-05-27 This edited book covers all aspects of grain legumes including negative impact of abiotic and biotic stresses under the changing global climate It discusses the role of various subject disciplines ranging from plant breeding genetics plant physiology molecular biology and genomics to high throughput phenotyping and other emerging technologies for sustaining global grain and fodder legume production to alleviate impending global food crises The book offers strategies to ensure plant based dietary protein security across the globe It covers all major commercial legume crops used as food feed and fodder This book is targeted to graduate and postgraduate students researchers progressive farmers and policymakers to inform them of the importance of cultivating grain and fodder legumes for future

global food and nutritional security and for maintaining sustainable ecosystem General Catalog Iowa State University,1995 Fishery Bulletin ,1999 General Technical Report INT. ,1983 **The Dominions Office and Colonial Office List Comprising Historical and Statistical Information Respecting the Overseas Dominions and Colonial Dependencies of Great Britain. Brit** ,1880 *Proceedings--Range Economics Symposium and Workshop, August 31-September 2, 1982, Salt Lake City, Utah* ,1983 **Industrial Engineering** George Worthington,1889 **A New English Dictionary on Historical Principles** Bradley,Murray,1910 Register of the University of California University of California (1868-1952),1918 **Register ...** California. University,University of California, Berkeley,1918 **Catalogue of the College of California and College School** University of California (System),1918

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