

**Reference Sections: July, 2014**

**Attention: The next posting of a reference list will be in**

*January, 2015*

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***Please Note:*** *This reference service provided by CAZA-NARG cannot be all-inclusive and is not intended to be exclusive. The inclusion of any reference in this listing is based only on availability and/or relevance to aquarium and zoo animal nutrition. Inclusion of a reference on this list does not indicate an acceptance and/or rating of the research. If you have a peer-reviewed paper to include in this list, please send the citation information to the Secretary/Treasurer of CAZA-NARG (below).*

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**AMPHIBIANS**

Antwis RE et al. 2014. Ex-situ diet influences the bacterial community associated with the skin of **red-eyed tree frogs** (*Agalychnis callidryas*). PLoS One, 9(1): e85563.

Fard MS et al. 2014. **Cjironomidae bloodworms** larvae as aquatic amphibian food. Zoo Biology, 33(3): 157-249.

Dugas MB, Yeager J & Richards-Zawacki CL. 2013. Carotenoid supplementation enhances reproductive success in captive **strawberry poison frogs** (*Oophaga pumilio*). Zoo Biology, advance e-alert.

Knoop R. et al. 2014. Vitamin C supplementation has no effect on **American bullfrog's** immune response. Journal of Animal Physiology and Animal Nutrition, advance e-alert.

Martins FM et al. 2013. Differential aspects of dietary protein on early life history and morphological traits in **natterjack toad** (*Epidalea calamita*) tadpoles reared in captivity.

Zoo Biology, 32(4): 457-462.

## BIRDS

Aourir M et al. 2013. Wild-laid versus captive-laid eggs in the **black-bellied sandgrouse**: is there any effect on chick productivity? Zoo Biology, advance e-alert.

Burton EJ et al. 2014. Evaluation of a fast, objective tool for assessing body condition of **budgerigars** (*Melopsittacus undulates*). Journal of Animal Physiology and Animal Nutrition, 98(2): 223-227.

Cornejo J et al. 2013. Nutritional and physical characteristics of commercial hand-feeding formulas for **parrots**. Zoo Biology, 32(5): 469-475.

Fidgett AL & Gardner L. 2014. Advancing **avian nutrition** through best feeding practice. International Zoo Yearbook, 48(1): 116-127.

King RS et al. 2014. **Whooping crane** *Grus Americana* chick mortality and management intervention. Wildlife Biology, 19(4): 420-428.

Mata F & Lam A. 2013. Investigating the relationship between feed and helminthic burden of captive **birds of prey** in Hong Kong. Zoo Biology, advance e-alert.

Péron F & Grosset C. 2014. The diet of **adult psittacids**: veterinarian and ethological approaches. Journal of Animal Physiology and Animal Nutrition, 98(3): 403-416.

Rose PE, Croft DP & Lee R. 2014. A review of captive **flamingo** (Phoenicopteridae) welfare: a synthesis of current knowledge and future direction. International Zoo Yearbook, 48(1): 139-155.

Veloso RR et al. 2014. Effects of food processing and fibre content on the digestibility, energy intake and biochemical parameters of **blue-and-gold macaws** (*Ara ararauna* L. – Aves, Psittacidae). Journal of Animal Physiology and Animal Nutrition, 98(2): 251-261.

Williamson SA et al. 2014. Is gastrointestinal plasticity in **king quail** (*Coturnix chinensis*) elicited by diet-fibre or diet-energy dilution? Journal of Experimental Biology, 217: 1839-1842.

Witteveen M, Brown M & Downs CT. 2013. Does sugar content matter? Blood plasma glucose levels in an occasional and specialist **avian nectarivore**. Comparative Biochemistry and Physiology Part A: Molecular and Integrative Physiology, advance e-alert.

## FEEDS, FORAGES and METHODOLOGY

Glasser F et al. 2013. Fat and fatty acid content and composition of **forages**: a meta-

analysis. *Animal Feed Science and Technology*, advance e-alert.

Doster E et al. 2014. Recognition of an important **water quality** issue at zoos: prevalence and potential threat of toxic cyanobacteria. *Journal of Zoo and Wildlife Medicine*, 45(1): 165-168.

Dove AD. 2013. **Metabolomics** has great potential for clinical and nutritional care and research with exotic animals. *Zoo Biology*, 32(3): 246-250.

### **FISH (aquaria)**

### **FOOD SAFETY**

### **INVERTEBRATES (terrestrial and aquatic)**

Baeza-Rojano E et al. 2013. Nutritional analysis of **freshwater and marine amphipods** from the Strait of Gibraltar and potential aquaculture applications. *Journal of Sea Research*, advance e-alert.

Moini M et al. 2014. Understanding irregular shell formation of **Nautilus** in aquaria: chemical composition and structural analysis. *Zoo Biology*, advance e-alert.

### **MAMMALS**

Abbondanza FN et al. 2013. Variation in the composition of milk of **Asian elephants** (*Elephas maximus*) throughout lactation. *Zoo Biology*, 32(3): 291-298.

Anderson KM & Wolf KN. 2014. Iron deficiency anemia in a **ring-tailed lemur** (*Lemur catta*) with concurrent chronic renal failure. *Journal of American Veterinary Medical Association*, 244(4): 471-475.

Andrews NL & Ha JC. 2014. The effects of automated scatter feeders on captive **grizzly bear** activity budgets. *Journal of Applied Animal Welfare Science*, advance e-alert.

Bapodra P et al. 2014. Evaluation of season-related dietary changes on the serum profiles of fat-soluble vitamins, mineral fatty acids, and lipids in the captive **greater one-horned rhinoceros** (*Rhinoceros unicornis*). *Zoo Biology*, advance e-alert.

Brooks MA et al. 2014. Effect of varying dietary starch and fiber levels an inoculum source (**mule deer vs. dairy cow**) on simulated rumen fermentation characteristics. *Zoo Biology*, 33(2): 110-120.

Clauss M et al. 2014. The effect of very low food intake on digestive physiology and forage digestibility in **horses**. *Journal of Animal Physiology and Animal Nutrition*, 98(1): 107-118.

Croft L et al. 2013. Clinical evaluation and biochemical analyses of thiamine deficiency in **Pacific harbor seals** (*Phoca vitulina*) maintained at a zoological facility. Journal of the American Medical Association, 243(8): 1179-1189.

Cushing AC et al. 2014. Recurrent calcium phosphate urolithiasis in a **black-and-white ruffed lemur** (*Varecia variegata*). Journal of Zoo and Wildlife Medicine, 45(1): 148-152.

Dermauw V et al. 2014. A disparate trace element metabolism in **zebu** (*Bos indicus*) and crossbred (*Bos indicus x Bos taurus*) cattle in response to a Cu deficient diet. Journal of Animal Science, advance e-alert.

Dittman MT et al. 2013. Energy requirements and metabolism of the Phillip's **dik dik** (*Madoqua saltiana phillipsi*). Comparative Biochemistry and Physiology Part A: Molecular and Integrative Physiology, advance e-alert.

Equizábal GV et al. 2013. Assessment of adrenocortical activity and behavior of the collared **anteater** (*Tamandua tetradactyla*) in response to food-based environmental enrichment. Zoo Biology, advance e-alert.

Hagen K, Clauss M & Hatt JM. 2014. Drinking preferences in **chinchillas** (*Chinchilla laniger*), degus (*Octodon degu*) and guinea pigs (*Cavia porcellus*). Journal of Animal Physiology and Animal Nutrition, advance e-alert.

Hogan LA, Lisle AT & Johnston SD. 2013. Eliminative behavior of captive **numbats**, *Myrmecobius fasciatus* (Mammalia; Marsupialia): pattern and identification of fecal deposits. Zoo Biology, 32(3): 324-331.

Kerr KR. 2013. Apparent total tract macronutrient and energy digestibility of 1- to 3-day-old whole chicks, adult ground chicken, and extruded and canned chicken-based diets in **African wildcats** (*Felis silvestris lybica*). Zoo Biology, 32(5): 510-517.

Kerr KR et al. 2013. Influence of dietary fiber type and amount on energy and nutrient digestibility, fecal characteristics, and fecal fermentative end-product concentrations in captive **exotic felids** fed a raw beef-based diet. Journal of Animal Science, 91(5): 199-210.

Kottwitz J & Munsterman AS. 2013. Pyloric trichobezoa in a **Canadian lynx** (*Lynx canadensis*). Journal of Zoo and Wildlife Medicine, 44(4): 1111-1114.

Koutsos EA et al. 2013. Absorption and ocular deposition of dietary lutein in **marine mammals**. Zoo Biology, 32(3): 316-323.

Less EH et al. 2013. Implementing a low-starch, biscuit-free diet in zoo **gorillas**: the

impact on behavior. *Zoo Biology*, 33(1): 63-73.

Less EH et al. 2013. Implementing a low-starch, biscuit-free diet in zoo **gorillas**: the impact on health. *Zoo Biology*, 33(1): 74-80.

Lodge E et al. 2013. Influence of diet and stress on reproductive hormones in **Nigerian olive baboons**. *General Comparative Endocrinology*, 191: 146-154.

Martinez F, Manteca X & Pastor J. 2013. Retrospective study of morbidity and mortality of captive **Iberian lynx** (*Lynx pardinus*) in the ex situ conservation programme (2004-June 2010). *Journal of Zoo and Wildlife Medicine*, 44(4): 845-852.

Morfeld KA et al. 2014. Development of a body condition scoring index for female **African elephants** validated by ultrasound measurements of subcutaneous fat. *PLoS One*, 9(4): e93802.

Mosser AA et al. 2013. Towards an energetic landscape: broad-scale accelerometry in **woodland caribou**. *Journal of Animal Ecology*, advance e-alert.

Oldham CL et al. 2013. Volatile fatty acid profile for grass hay or alfalfa hay fed to **alpacos** (*Vicugna pacos*). *Journal of Animal Physiology and Animal Nutrition*, advance e-alert.

Plesker R & Schulze H. 2013. Dental disease in **slender lorises** (*Loris tardigradus*). *Zoo Biology*, 32(5): 571-574.

Prebble JL & Meredith AL. 2014. Food and water intake and selective feeding in **rabbits** on four feeding regimes. *Journal of Animal Physiology and Animal Nutrition*, advance e-alert.

Romain S et al. 2014. Diet composition, food intake, apparent digestibility, and body condition score of the captive **Asian elephant** (*Elephas maximums*): a pilot study in two collections in Thailand. *Journal of Zoo and Wildlife Medicine*, 45(1): 1-14.

Schmidt DA et al. 2013. Fat-soluble vitamin and mineral comparisons between zoo-based and free-ranging **koalas** (*Phascolarctos cinereus*). *Journal of Zoo and Wildlife Medicine*, 44(4): 1079-1082.

Schneider M, Nogge G & Kolter L. 2014. Implementing unpredictability in feeding enrichment for **Malayan sun bears** (*Helarctos malayanus*). *Zoo Biology*, 33(1): 54-62.

Schumann K et al. 2014. Animal housing and welfare effects of housing condition on body weight and cortisol in a medium-sized **rodent** (*Cavia aperea*). *Journal of Applied Animal Welfare Science*, 17(2): 111-124.

Slon V et al. 2014. Hyperostotic bone disease in **wombat** (*Vombatus ursinus*).

Research in Veterinary Science, advance e-alert.

Stannard HJ & Old JM. 2013. Digestibility of two diet items by captive **eastern quolls** (*Dasyurus viverrinus*). *Zoo Biology*, 32(4): 417-422.

Stannard HJ & Old JM. 2014. Biology, life history, and captive management of the **kultarr** (*Antechinomys laniger*). *Zoo Biology*, advance e-alert.

Yisehak K et al. 2014. The effect of supplementing leaves of four tannin-rich plant species with polyethylene glycol on digestibility and zoo technical performance of **zebu** bulls (*Bos indicus*). *Journal of Animal Physiology and Animal Nutrition*, 98(3): 417-423.

## NUTRITIONAL PATHOLOGY AND CLINICAL NUTRITION

Anderson KM & Wolf KN. 2014. **Iron deficiency anemia** in a ring-tailed lemur (*Lemur catta*) with concurrent chronic renal failure. *Journal of American Veterinary Medical Association*, 244(4): 471-475.

Croft L et al. 2013. Clinical evaluation and biochemical analyses of **thiamine deficiency** in Pacific harbor seals (*Phoca vitulina*) maintained at a zoological facility. *Journal of the American Medical Association*, 243(8): 1179-1189.

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De Voe RS. 2014. **Nutritional support** of reptile patients. *Veterinary Clinics of North America Exotic Animal Practice*, 17(2): 249-216.

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Peterson ME et al. 2014. Dietary management of **feline endocrine disease**. *Veterinary Clinics of North America Small Animal Practice*, advance e-alert.

Plesker R & Schulze H. 2013. **Dental disease** in slender lorises (*Loris tardigradus*). Zoo Biology, 32(5): 571-574.

Reavill D. 2014. Pathology of the exotic companion mammal gastrointestinal system. Veterinary Clinics of North America Exotic Animal Practice, 17(2): 145-164.

## REPTILES

De Voe RS. 2014. **Nutritional support** of reptile patients. Veterinary Clinics of North America Exotic Animal Practice, 17(2): 249-216.

Guzmán JJ et al. 2013. Effect of lysine addition on growth of **black iguana** (*Ctenosaur pectinata*). Zoo Biology, 32(3): 277-280.

Haxhiu D et al. 2014. Influence of feeding and UVB exposure on the absorption mechanisms of calcium in the gastrointestinal tract of **veiled chameleons** (*Chamaeleo calyptratus*). Journal of Animal Physiology and Animal Nutrition, advance e-alert.