

# ANIMAL PRODUCTION SCIENCE

## CONTENTS Volume 51, Issue 4, 2011, 251–389

Foreword i–ii

### PLENARY REVIEWS

Reintroducing the Persian fallow deer *Dama mesopotamica* in Israel – a chronology  
*D. Saltz, S. Bar David, R. Zidon, A. Dolev, A. Perelberg, R. King and O. Berger-Tal* 251–258

Deer overabundance in the USA: recent advances in population control  
*R. J. Warren* 259–266

Stem cells, stem cell niche and antler development  
*Chunyi Li, Fuhe Yang and Jimmy Suttie* 267–276

Intraspecific variation in biology and ecology of deer: magnitude and causation  
*Rory Putman and Werner T. Flueck* 277–291

Quantitative nutrition of deer: energy, protein and water  
*G. McL. Dryden* 292–302

Relationships between rank-related behaviour, antler cycle timing and antler growth in deer: behavioural aspects  
*L. Bartoš and G. A. Bubenik* 303–310

### RESEARCH PAPERS

Recent advances in the nutritional ecology of the Patagonian huemul: implications for recovery  
*Werner T. Flueck and Jo Anne M. Smith-Flueck* 311–326

Osteological comparisons of appendicular skeletons: a case study on Patagonian huemul deer and its implications for conservation  
*Werner T. Flueck and Jo Anne M. Smith-Flueck* 327–339

Patagonian huemul deer (*Hippocamelus bisulcus*) under captive conditions: an historical overview  
*Fernando Vidal, Jo Anne M. Smith-Flueck, Werner T. Flueck and Eduardo Arias* 340–350

Factors promoting axon growth in the deer antler  
*M. Nieto-Díaz, W. Pita-Thomas, R. M. Maza, M. Yunta-Gonzalez, M. J. Lopez-Rodríguez, R. Navarro-Ruiz, D. Reigada, C. Fernández-Martos and M. Nieto-Sampedro* 351–354

Physiological and behavioural effects of hypoxemia in reindeer (*Rangifer tarandus*) immobilised with xylazine-etorphine  
*Tara E. Risling, Åsa Fahlman, Nigel A. Caulkett and Susan Kutz* 355–358

Blood proteins of red deer introduced to Patagonia: genetic origins and variability  
*Werner T. Flueck and Jo Anne M. Smith-Flueck* 359–364

Intraspecific phenotypic variation in deer: the role of genetic and epigenetic processes  
*Werner T. Flueck and Jo Anne M. Smith-Flueck* 365–374

### SUMMARIES OF WORKSHOPS & SYMPOSIA

Priorities for the conservation of the pudu (*Pudu puda*) in southern South America  
*Eduardo A. Silva-Rodríguez, O. Alejandro Aleuy, Marcelo Fuentes-Hurtado, Juliana A. Vianna, Fernando Vidal and Jaime E. Jiménez* 375–377

Advances in ecology and conservation of *Hippocamelus* species in South America  
*J. M. Smith-Flueck, J. Barrio, N. Ferreyra, A. Nuñez, N. Tomas, J. Guzman, W. T. Flueck, A. Hinojosa, F. Vidal, G. Garay and J. Jimenez* 378–383

Policies and management of overabundant deer (native or exotic) in protected areas  
*G. Nugent, W. J. McShea, J. Parkes, S. Woodley, J. Waithaka, J. Moro, R. Gutierrez, C. Azorit, F. Mendez Guerrero, W. T. Flueck and J. M. Smith-Flueck* 384–389