

Redesigning the Captive Polar Bear (*Ursus maritimus*) Exhibit to Prevent Stereotypic Behavior and Promote Positive Visitor Experience



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Applied Animal Behavior in Captive Populations

NSCI 579 - 001

December 4, 2012

Semester Project Proposal

The Management And Behaviour Of Captive Polar Bears

Georgia Mason, Jeffrey Rushen



The Management And Behaviour Of Captive Polar Bears:

The Management and Behaviour of Captive Polar Bears Alison Lorraine Ames, 2000 Stereotypic Animal Behaviour Georgia Mason, Jeffrey Rushen, 2008-04-09 Abnormal behaviour patterns from the jumping and somersaulting of caged laboratory mice to the pacing of enclosed big cats are displayed by many millions of farm zoo research and companion animals Including new chapters and over 30 contributors this book focuses on the causation and treatment of these environment induced stereotypic behaviours and their implications for animal welfare and normalcy of brain functioning The book begins by taking an ethological perspective focusing on the constraints captivity places on animals normal behavioural repertoires and the effects these have on specific motivational systems It then addresses the role of dysfunction particularly the impact of chronic stress and impoverished environments on brain functioning The book then moves on to explore how stereotypic behaviours can be tackled once they have emerged using diverse techniques from environmental enrichment to pharmaceutical intervention It concludes by giving a new definition for stereotypic behaviour and a discussion of future research directions **The Behavioural Biology of Zoo Animals** Paul Rose, 2022-11-04 Zoo animals as a population are a diverse array of species from all around the globe When managed in captivity it is important that key aspects of natural ecology are factored into animal care as well as considerations relating to welfare life history and behavioural needs The Behavioural Biology of Zoo Animals is the first book on captive animal behaviour and how this applies to welfare The book enables all aspects of zoo husbandry and management nutrition enclosure design handling and training enrichment population management to be based on a sound knowledge of the species its evolutionary history and its natural history Chapters from expert authors cover a vast range of taxa from primates and elephants to marine mammals and freshwater fish to reptiles birds and invertebrates A final part looks to the future considering animal health and wellbeing the visitor experience and future visions for zoos and aquariums For on the ground practitioners as well as students of zoo biology animal science and welfare this book provides an explanation of key areas of behavioural biology that are important to fulfilling the aims of the modern zoo conservation education research and recreation It explains how evidence from the wild can be implemented into captive care to support the wider aims of the zoo shedding light on the evidence based approaches applied to zoo biology and animal management Chapter 3 is available to download Open Access on the www.taylorfrancis.com website under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license Aa Companion Website with additional resources is freely available for all at www.bbza-book.com and you can follow the book on Instagram at [bbza_book](https://www.instagram.com/bbza_book) The Wild Within Andrew Brogan, 2018-02-22 Established in 1836 the Bristol Zoo is the world's oldest surviving zoo outside of a capital city and has frequently been at the vanguard of zoo innovation In *The Wild Within* Andrew Flack uses the experiences of the Bristol Zoo to explore the complex and ever changing relationship between human and beast which in many cases has altered radically over time Flack recounts a history in which categories and identities combined converged

and came into conflict as the animals at Bristol proved to be extremely adaptive He also reveals aspects of the human animal bond however that have remained remarkably consistent not only throughout the zoo s existence but for centuries including the ways in which even the captive animals with the most distinct qualities and characteristics are misunderstood when viewed through an anthropocentric lens Flack strips back the layers of the human animal relationship from those rooted in objectification and homogenization to those rooted in the recognition of consciousness and individual experience The multifaceted beasts and protean people in *The Wild Within* challenge a host of assumptions both within and outside the zoo about what it means to be human or animal in the modern world

Human-Animal Interactions in Zoos Eduardo J.

Fernandez, Sally L. Sherwen, 2024-05-30 In the past couple of decades Animal Visitor Interactions AVI a type of Human Animal Interaction HAI have become one of the major topics of interest for researchers working in zoos especially in relation to animal welfare This thought provoking book summarizes the latest research concerning the impacts on HAIs in zoos including the effects of visitors on animals and the effects of animals exhibits and the place itself on visitors An invaluable resource for ethologists and animal behaviour and welfare students and practitioners as well as social scientists and indeed anyone working with zoo animals

Environmental Enrichment for Captive Animals Robert J. Young, 2013-05-07

Environmental enrichment is a simple and effective means of improving animal welfare in any species companion farm laboratory and zoo For many years it has been a popular area of research and has attracted the attention and concerns of animal keepers and carers animal industry professionals academics students and pet owners all over the world This book is the first to integrate scientific knowledge and principles to show how environmental enrichment can be used on different types of animal Filling a major gap it considers the history of animal keeping legal issues and ethics right through to a detailed exploration of whether environmental enrichment actually works the methods involved and how to design and manage programmes The first book in a major new animal welfare series Draws together a large amount of research on different animals Provides detailed examples and case studies An invaluable reference tool for all those who work with or study animals in captivity This book is part of the UFAW Wiley Blackwell Animal Welfare Book Series This major series of books produced in collaboration between UFAW The Universities Federation for Animal Welfare and Wiley Blackwell provides an authoritative source of information on worldwide developments current thinking and best practice in the field of animal welfare science and technology For details of all of the titles in the series see www.wiley.com/go/ufo

The Welfare and Management of Bears in Zoological Gardens Alison Ames, 1994 Wild Mammals in Captivity Devra G.

Kleiman, Katerina V. Thompson, Charlotte Kirk Baer, 2010-08-15 Zoos aquaria and wildlife parks are vital centers of animal conservation and management For nearly fifteen years these institutions have relied on *Wild Mammals in Captivity* as the essential reference for their work Now the book reemerges in a completely updated second edition *Wild Mammals in Captivity* presents the most current thinking and practice in the care and management of wild mammals in zoos and other

institutions In one comprehensive volume the editors have gathered the most current information from studies of animal behavior advances in captive breeding research in physiology genetics and nutrition and new thinking in animal management and welfare In this edition more than three quarters of the text is new and information from more than seventy five contributors is thoroughly updated The standard text for all courses in zoo biology Wild Mammals in Captivity will in its new incarnation continue to be used by zoo managers animal caretakers researchers and anyone with an interest in how to manage animals in captive conditions

Animal-centric Care and Management Dorte Bratbo Sørensen, Sylvie Cloutier, Brianna N. Gaskill, 2020-10-14 The concept of the 3Rs Refinement Reduction and Replacement has been used as a framework for improving the welfare of laboratory animals for the last half century By establishing an animal centric view on housing and management Animal centric Care and Management Enhancing Refinement in Biomedical Research takes Russell and Burch's definition of Refinement as elimination of inhumanities and goes further Rather than fitting animals into experimental conditions it encourages readers to adjust conditions to better meet the behavioral emotional physical and physiological needs and preferences of the animals The team of expert authors from the fields of laboratory animal science ethology biology as well as animal training provide ideas for creating housing conditions and handling procedures that induce to the best of current abilities and knowledge a long term positive state of mind in the animals under our care This book is written for animal caretakers animal health technicians researchers animal facility managers laboratory animal veterinarians and anyone who engages in work with living experimental animals or is interested in the continuous improvement of laboratory animal welfare This interdisciplinary guide will act as a catalyst resulting in multiple viewpoints and fields collaborating to optimize laboratory animal welfare Proceedings, 2003 **Bärle's Story** Else

Poulsen, 2014-06-07 The award winning zookeeper and author of Smiling Bears shares her account of rescuing and rehabilitating a bear held in a Caribbean circus When a nineteen year old female polar bear named Barle is rescued from the inhumane conditions of a circus in the Caribbean and flown to safety in Detroit zookeeper Else Poulsen renowned throughout the world for her work rehabilitating abused bears is on hand to meet her and help her on the road to recovery and self discovery Thus begins Barle's gradual introduction into the world of polar bears Slowly she forges relationships with the other bears in the zoo and eventually mates with a young male and successfully raises a cub By living in a caring enriched environment focused on her welfare Barle is able to recover from the trauma she had suffered at the circus and develop skills that are important to thriving as a polar bear As Poulsen documents however not all captive bears are so fortunate Augmented with black and white photographs Barle's Story provides a rich and moving portrayal of a remarkable bear and of the author's inspiring work to help her discover her true polar bear ways Praise for Barle's Story This intelligent stark and gently humorous book makes one think that if all animals were listened to in the way that Poulsen listens to bears our children would inherit an infinitely kinder and safer world than the one they enjoy now Dr Jill Robinson MBE founder and

CEO Animals Asia Foundation At once deeply heart wrenching heart warming and heartfelt Read this wonderful book and share it widely Dr Marc Bekoff author of Why Dogs Hump and Bees Get Depressed **On Thin Ice** Richard Ellis,2010-12-07 From a graceful writer who s written some of the best natural history books of the past decade The New York Times Book Review comes an urgent stirring celebration and a rallying cry on behalf of one of earth s greatest natural treasures Polar bears fierce and majestic have captivated us for centuries Feared by explorers revered by the Inuit and beloved by zoo goers everywhere they are a symbol for the harsh beauty and muscular grace of the Arctic But as global warming threatens the ice caps integrity the polar bear has also come to symbolize the environmental peril that has arisen due to harmful human practices In the past twenty years alone the world population of polar bears has shrunk by half Today they number just 22 000

Handbook of Laboratory Animal Science Jann Hau,Steven J. Schapiro,2021-05-17 Building upon the success of previous editions of the bestselling Handbook of Laboratory Animal Science first published in 1994 this latest revision combines all three volumes in one definitive guide It covers the essential principles and practices of Laboratory Animal Science as well as selected animal models in scientific disciplines where much progress has been made in recent years Each individual chapter focuses on an important subdiscipline of laboratory animal science and the chapters can be read and used as stand alone texts with only limited necessity to consult other chapters for information With new contributors at the forefront of their fields the book reflects the scientific and technological advances of the past decade It also responds to advances in our understanding of animal behavior emphasizing the importance of implementing the three Rs replacing live animals with alternative methods reducing the number of animals used and refining techniques to minimize animal discomfort This fourth edition will be useful all over the world as a textbook for laboratory animal science courses for postgraduate and undergraduate students and as a handbook for scientists who work with animals in their research for university veterinarians and for other specialists in laboratory animal science

Asymmetry Indexes, Behavioural Instability and the Characterization of Behavioural Patterns Cino Pertoldi,2020-06-03 The structure of sequential behavior and its patterns have attracted the attention of researchers from various disciplines such as game theory human and animal behavior evolutionary ecology psychology behavioral economy and cognitive sciences Sequential behavior seems to be involved in the processes of sequential learning decision making processes and exploratory behavior There are however competing hypotheses regarding the mechanisms involved in the complexity of the behavioral responses of organisms when exposed to changing environments The behavioral response to different environmental conditions is often utilized in behavioral ecology studies where the changes in behavior are quantified in terms of probability of dispersal distance and speed of movements or time budget where the time spent on different activities foraging resting explore etc is registered and analyzed in terms of cost benefit This book represents a series of articles covering a broad spectrum of organisms and proposes the analysis of sequential behavior utilizing indices commonly applied in the estimation of developmental instability

fluctuating asymmetry directional asymmetry and antisymmetry toward estimating the degree of Behavioral Instability Deviations from symmetry will be interpreted in ecological and evolutionary terms where the cost and benefits of changes of the degree of behavioral instability will be analyzed in terms of overall costs and benefits and its evolutionary significance Presented in this collection are multidisciplinary studies theoretical and computational as well as experimental and empirical approaches that validate the proposed approach and pave the way for future investigation in the novel field of what is best described as behavioral instability

Introduction to Animal Behavior and Veterinary Behavioral Medicine Meghan E. Herron, 2024-07-03 Understand and apply key concepts of animal behavior in veterinary practice Animal behavior is a critical aspect of veterinary medicine often underappreciated despite its pervasiveness throughout the field Understanding animal behavior can facilitate communication with patients refine diagnoses and indications of ill health and aid in processes of learning and socialization Introduction to Animal Behavior and Veterinary Behavioral Medicine offers a comprehensive overview of the key concepts underlying the behavior of multiple animal species before demonstrating how to apply these concepts clinically The result is an indispensable resource for veterinary students and practitioners who want to deepen their understanding of patient needs Introduction to Animal Behavior and Veterinary Behavioral Medicine readers will also find Comprehensive coverage of companion animal behavior and additional coverage of livestock and wild animal behavior Detailed discussion of topics including social development animal learning and applied behavior analysis In depth review of diagnosis and treatment strategies for common behavior disorders in companion animals extending to various additional species Companion website with videos handouts for downloading and links to pertinent scientific articles and informative websites Introduction to Animal Behavior and Veterinary Behavioral Medicine is ideal preparation for veterinary medical students as part of day one readiness in their professional careers as well as veterinary practitioners looking for a solid foundation in animal behavior and the treatment of key issues

An Introduction to Zoo Biology and Management Paul A. Rees, 2011-03-29 This book is intended as an introductory text for students studying a wide range of courses concerned with animal management zoo biology and wildlife conservation and should also be useful to zookeepers and other zoo professionals It is divided into three parts Part 1 considers the function of zoos their history how zoos are managed ethics zoo legislation and wildlife conservation law Part 2 discusses the design of zoos and zoo exhibits animal nutrition reproduction animal behaviour including enrichment and training animal welfare veterinary care animal handling and transportation Finally Part 3 discusses captive breeding programmes genetics population biology record keeping and the educational role of zoos including a consideration of visitor behaviour It concludes with a discussion of the role of zoos in the conservation of species in the wild and in species reintroductions This book takes an international perspective and includes a wide range of examples of the operation of zoos and breeding programmes particularly in the UK Europe North America and Australasia Visit www.wiley.com/go/rees/zoo to access the artwork from the book

Personality in Nonhuman Animals Jennifer

Vonk, Alexander Weiss, Stan A. Kuczaj, 2017-07-26 This stimulating and comprehensive collection brings together multiple perspectives on the topic of personality in nonhuman animals linking historical perspectives theoretical approaches methods and cutting edge discoveries Experts from various fields describe their findings on species ranging from dogs cats chimpanzees and dolphins to sharks snakes and other reptiles Chapters not only discuss the evolution of personality but also describe potential applications within the areas of animal human interactions animal ethics and welfare conservation science and other areas A key focus is the role of genetics and the environment in determining animal behavior and personality including related traits such as creativity and boredom These chapters present the study of personality in nonhumans as a means by which we can better understand medical and psychological issues specific to our own species as well Chapters include Exploring factor space and other adventures with the Hominoid Personality Questionnaire The quantitative and molecular genetics of individual differences in animal personality Personality temperament and individuality in reptile behavior What do we want to know about personality in marine mammals Individual differences in nonhuman animals examining boredom curiosity and creativity The interplay between animal personality and foraging ecology Taking significant steps in advancing the study of animal personality Personality in Nonhuman Animals will engage personality psychologists comparative psychologists and behavior ecologists as well as conservationists zookeepers livestock managers and all those interested in the brain and behavior of animals

Zoo Animals Geoff Hosey, Vicky Melfi, Sheila Pankhurst, 2013-07-04 Zoo Animals Behaviour Management and Welfare is the ideal resource for anyone needing a thorough grounding in this subject whether as a student or as a zoo professional

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[Environmental Enrichment](#)

Arun Kumar Mishra, Rajesh Kumar Mohapatra, Siba Prasad Parida, Satyanarayan Mishra, 2021-03-17 Environmental Enrichment is an essential and effective way to improve the welfare of captive animals The book presents general principles and scientific knowledge on environmental enrichment and case studies on enrichment practices in zoo felids This is a practical yet scientific book that will help to create and evaluate successful enrichment programmes for captive animals considering their natural history The book is a helpful reference tool for those who work with or study animals in captivity

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