

Domestic Dog Cognition And Behavior The Scientific Study Of Canis Familiaris

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This book highlights the state of the field in the new, provocative line of research into the cognition and behavior of the domestic dog. Eleven chapters from leading researchers describe innovative methods from comparative psychology, ethology and behavioral biology, which are combined to create a more comprehensive picture of the behavior of Canis familiaris than ever before.

Domestic Dog Cognition and Behavior: The Scientific Study ...

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Domestic Dog Cognition and Behavior - The Scientific Study ...

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Domestic Dog Cognition and Behavior | SpringerLink

Domestic Dog Cognition and Behavior, The Scientific Study of Canis Familiaris. This book highlights the state of the field in the new, provocative line of research into the cognition and behavior of the domestic dog. Eleven chapters from leading researchers describe innovative methods from comparative psychology, ethology and behavioral biology, which are combined to create a more comprehensive picture of the behavior of Canis familiaris than ever before.

Domestic Dog Cognition and Behavior, The Scientific Study ...

While domestic dogs, Canis familiaris, have been found to be skillful at social cognitive tasks and even some meta-cognitive tasks, they have not passed the test of mirror self-recognition (MSR).

Domestic dog cognition and behavior: The scientific study ...

Domestic dogs display an extraordinary level of phenotypic diversity in morphology and behavior. Furthermore, due to breeding practices introduced during the nineteenth century, these phenotypic traits have become relatively 'fixed' within breeds, allowing biologists to obtain unique insights regarding the genetic bases of behavioral diversity, and the effects of domestication and artificial selection on temperament.

Dog Breeds and Their Behavior | SpringerLink

'The Domestic Dog should be in the library of all of those who study, live with, or are curious about dogs, their genetics and their behavior.' Alexandra Horowitz - Barnard College, New York 'An outstanding and comprehensive collection of original and up-to-date essays to which everyone around the world who is interested in dogs should have easy access.

The Domestic Dog edited by James Serpell

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Amazon.com: Domestic Dog Cognition and Behavior: The ...

Domestic dogs display an extraordinary level of phenotypic diversity in morphology and behavior.

(PDF) Dog Breeds and Their Behavior - ResearchGate

by Alexandra Horowitz February 2014. This book highlights the state of the field in the new, provocative line of research into the cognition and behavior of the domestic dog. Eleven chapters from leading researchers describe innovative methods from comparative psychology, ethology and behavioral biology, which are combined to create a more comprehensive picture of the behavior of Canis familiaris than ever before.

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Domestic Dog Cognition and Behavior : Alexandra Horowitz ...

SIGNIFICANCE STATEMENT Dog breeds are known to vary in cognition, temperament, and behavior, but the neural origins of this variation are unknown. In an MRI-based analysis, we found that brain anatomy covaries significantly with behavioral specializations such as sight hunting, scent hunting, guarding, and companionship.

Significant Neuroanatomical Variation Among Domestic Dog ...

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Domestic Dog Cognition and Behavior eBook by ...

Dog intelligence or dog cognition is the process in dogs of acquiring information and conceptual skills, and storing them in memory, retrieving, combining and comparing them, and using them in new situations. Studies have shown that dogs display many behaviors associated with intelligence. They have advanced memory skills, and are able to read and react appropriately to human body language such as gesturing and pointing, and to understand human voice commands. Dogs demonstrate a theory of mind b

Dog intelligence - Wikipedia

The domestic dog shows a wide range of morphologies, that humans have selected for in the process of creating unique breeds. Recent studies have revealed correlations between changes in morphology and behaviour as reported by owners. For example, as height and weight decrease, many undesirable behaviours (non-social fear, hyperactivity and attention seeking) become more apparent.

Associations between Domestic-Dog Morphology and Behaviour ...

The Social Dog: Behaviour and Cognition includes chapters from leading researchers in the fields of social cognition and behavior, vocalization, evolution, and more, focusing on topics including dog-dog and dog-human interaction, bonding with humans, social behavior and learning, and more.

The Social Dog - 1st Edition

Dog behavior is the internally coordinated responses of individuals or groups of domestic dogs to internal and external stimuli. It has been shaped by millennia of contact with humans and their lifestyles. As a result of this physical and social evolution, dogs, more than any other species, have acquired the ability to understand and communicate with humans, and they are uniquely attuned in ...

This book highlights the state of the field in the new, provocative line of research into the cognition and behavior of the domestic dog. Eleven chapters from leading researchers describe innovative methods from comparative psychology, ethology and behavioral biology, which are combined to create a more comprehensive picture of the behavior of *Canis familiaris* than ever before. Each of the book's three parts highlights one of the perspectives relevant to

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providing a full understanding of the dog. Part I covers the perceptual abilities of dogs and the effect of interbreeding. Part II includes observational and experimental results from studies of social cognition – such as learning and social referencing – and physical cognition in canids, while Part III summarizes the work in the field to date, reviewing various conceptual and methodological approaches and testing anthropomorphisms with regard to dogs. The final chapter discusses the practical application of behavioral and cognitive results to promote animal welfare. This volume reflects a modern shift in science toward considering and studying domestic dogs for their own sake, not only insofar as they reflect back on human beings.

This is the first book to summarize the burgeoning research literature on the behavioural ecology of the dog. As the leader of Europe's largest research group working solely on dog behaviour, the author is well placed to tackle such a project. The book will present a new ecological approach to the understanding of dog behaviour that will also highlight directions for future research. In providing links to human and primate behaviour research, it will appeal to anyone with an interest in behavioural ecology.

Dogs have become the subject of increasing scientific study over the past two decades, chiefly due to their development of specialized social skills, seemingly a result of selection pressures during domestication to help them adapt to the human environment. *The Social Dog: Behaviour and Cognition* includes chapters from leading researchers in the fields of social cognition and behavior, vocalization, evolution, and more, focusing on topics including dog-dog and dog-human interaction, bonding with humans, social behavior and learning, and more. Dogs are being studied in comparative cognitive sciences as well as genetics, ethology, and many more areas. As the number of published studies increases, this book aims to give the reader an overview of the state of the art on dog research, with an emphasis on social behavior and socio-cognitive skills. It represents a valuable resource for students, veterinarians, dog specialists, or anyone who wants deeper knowledge of his or her canine companion. Reviews the state of the art of research on dog social interactions and cognition. Includes topics on dog-dog as well as dog-human interactions. Features contributions from leading experts in the field, which examine current studies while highlighting the potential for future research.

A comprehensive update to the first monograph on dog behaviour, evolution and cognition.

A scientific analysis of dogs, their behaviour, and their relationships with humans.

Second edition of a classic text on canine science and behavior, incorporating two decades of new evidence and discoveries.

As an unabashed dog lover, Alexandra Horowitz is naturally curious about what her dog thinks and what she knows. As a cognitive scientist she is intent on understanding the minds of animals who cannot say what they know or feel. This is a fresh look at the world of dogs -- from the dog's point of view. The book introduces the reader to the science of the dog -- their perceptual and cognitive Abilities -- and uses that introduction to draw a picture of what it might be like to be a dog. It answers questions no other dog book can -- such as: What is a dog's sense of time? Does she miss me? Want friends? Know when she's been bad? Horowitz's journey, and the insights she uncovered from studying her own dog, Pumpernickel, allowed her to understand her dog better, and appreciate her more through that understanding. The reader will be able to do the same with their own dog. This is not another dog training book. Instead, *Inside of a Dog* will allow dog owners to look at their pets' behaviour in a different, and revealing

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light, enabling them to understand their dogs and enjoy their relationship even more.

Dogs, *Canis familiaris*, share the lives of humans all over the world. That dogs, and the behavior of dogs, are of interest to many is therefore no surprise. In this thesis, the main aim has been to identify factors that affect dogs' behaviours. The dog, *Canis familiaris*, is our first domesticated animal. Since domestication, various types of dogs have developed through adaptation to an environment shared with humans and through our selective breeding, resulting in a unique variation in morphology and behaviour. Although there is an individual variation in the behaviour of dogs, there is also a difference between breeds. Moreover, selection during the last decades has split some breeds into divergent types. Labrador and golden retrievers are divided into a common type, for show and companionship, and a field type, for hunting. By comparing the breed types, we can study the effects of recent selection. In Paper I, we investigate differences in general behavioural traits between Labrador and golden retriever and between common and field type within the two breeds by using results from the standardized behaviour test Dog Mentality Assessment. There were differences between breeds and types for all behavioural traits. However, there was also an interaction between breed and type. Thus, a common/field-type Labrador does not behave like a common/field-type golden retriever. Even though they have been selected for similar traits, the selection has affected the general behavioural traits differently in the two breeds. In paper II, we were interested in dogs' human-directed social skills. Dogs have a high social competence when it comes to humans. Two experiments commonly used to study these skills are the problem-solving test, where dogs' human-directed behaviours when faced with a problem are measured, and the pointing test, where dogs are tested on how well they understand human gestures. We compared the social skills of German shepherds and Labrador retrievers, and of common- and field-type Labradors. Labradors were more successful in the pointing test and German shepherds stayed closer to their owners during the problem solving. Among Labrador types, the field type had more human eye contact than the common type. Importantly, when comparing the two experiments, we found no positive correlations between the problem-solving test and the pointing test, suggesting that the two tests measure different aspects of human-directed social behaviour in dogs. A previous study has identified two suggestive genetic regions for human-directed social behaviours during the problem-solving test in beagles. In paper III, we show that these SNPs are also associated to social behaviours in Labrador and golden retrievers. Moreover, the Labrador breed types differed significantly in allele frequencies. This indicates that the two SNPs have been affected by recent selection and may have a part in the differences in sociability between common and field type. The behaviour of dogs cannot simply be explained by genetics, there is also an environmental component. In paper IV, we study which factors that affect long-term stress in dogs. Long-term cortisol can be measured by hair samples. We found a clear synchronization in hair cortisol concentrations between dogs and their owners. Neither dogs' activity levels nor their behavioural traits affected the cortisol, however, the personality of the owners did. Therefore, we suggest that dogs mirror the stress level of their owners. The mediator between genes and the environment is epigenetics, and one epigenetic factor is DNA methylation. In paper V, we compared methylation patterns of wolves and dogs as well as dog breeds. Between both wolves and dogs and among dogs there were substantial differences in methylated DNA regions, suggesting that DNA methylation is likely to contribute to the vast variation among canines. We hypothesize that epigenetic factors have been important during domestication and in breed formation. In this thesis, I cover several aspects on how dogs' behaviours can be affected, and paint an intricate picture on how genetics, epigenetics, and human-dog relations forms dog behaviour.

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The perfect gift for dog lovers and readers of *Inside of a Dog* by Alexandra Horowitz—this New York Times bestseller offers mesmerizing insights into the thoughts and lives of our smartest and most beloved pets. Does your dog feel guilt? Is she pretending she can't hear you? Does she want affection—or just your sandwich? In their New York Times bestselling book *The Genius of Dogs*, husband and wife team Brian Hare and Vanessa Woods lay out landmark discoveries from the Duke Canine Cognition Center and other research facilities around the world to reveal how your dog thinks and how we humans can have even deeper relationships with our best four-legged friends. Breakthroughs in cognitive science have proven dogs have a kind of genius for getting along with people that is unique in the animal kingdom. This dog genius revolution is transforming how we live and work with dogs of all breeds, and what it means for you in your daily life with your canine friend.

An accessible and richly illustrated introduction to the natural history of dogs—from evolution, anatomy, cognition, and behavior to the relationship between dogs and humans. As one of the oldest domesticated species, selectively bred over millennia to possess specific behaviors and physical characteristics, the dog enjoys a unique relationship with humans. More than any other animal, dogs are attuned to human behavior and emotions, and accordingly play a range of roles in society, from police and military work to sensory and emotional support. Selective breeding has led to the development of more than three hundred breeds that, despite vast differences, still belong to a single species, *Canis familiaris*. *The Dog* is an accessible, richly illustrated, and comprehensive introduction to the fascinating natural history and scientific understanding of this beloved species. Ádám Miklósi, a leading authority on dogs, provides an appealing overview of dogs' evolution and ecology; anatomy and biology; behavior and society; sensing, thinking, and personality; and connections to humans. Illustrated with some 250 color photographs, *The Dog* begins with an introductory overview followed by an exploration of the dog's prehistoric origins, including current research about where and when canine domestication first began. The book proceeds to examine dogs' biology and behavior, paying particular attention to the physiological and psychological aspects of the ways dogs see, hear, and smell, and how they communicate with other dogs and with humans. The book also describes how dogs learn about their physical and social environments and the ways they form attachments to humans. The book ends with a section showcasing a select number of dog breeds to illustrate their amazing physical variety. Beautifully designed and filled with surprising facts and insights, this book will delight anyone who loves dogs and wants to understand them better.

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