1. Record Nr. UNINA9910797376803321

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Titolo	Animal vigilance : monitoring predators and competitors / / Guy Beauchamp
Pubbl/distr/stampa	Amsterdam : , : Elsevier, , [2015] ©2015
ISBN	0-12-801994-8 0-12-801983-2
Descrizione fisica	1 online resource (267 p.)
Disciplina	525.20039834565
Soggetti	Predation (Biology) Predatory animals Animals
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; Chapter 1 - Overview of Animal Vigilance; 1.1 - Introduction; 1.2 - Definition and measurements; 1.2.1 - How to Define Vigilance; 1.2.2 - Types of Vigilance; 1.2.2.1 - Routine or Induced Vigilance; 1.2.2.2 - Anti-Predator or Social Vigilance; 1.2.2.3 - Pre-Emptive or Reactive Vigilance; 1.2.2.4 - Visual, Auditory, Olfactory or Vibrotactile Vigilance; 1.2.3 - How to Measure Vigilance; 1.2.3.1 - Measuring the State of Vigilance; 1.2.3.2 - Measuring the Markers of Vigilance; 1.3 - A history of vigilance; 1.3.1 - First Phase 1.3.2 - Second Phase1.4 - Research themes; 1.5 - Conclusions; Chapter 2 - Function of Animal Vigilance; 2.1 - Introduction; 2.2 - Types of threats; 2.3 - Monitoring competitors; 2.3.1 - Contest Competition for Food; 2.3.1.1 - Vigilance During the Search Phase; 2.3.1.2 - Vigilance During the Exploitation Phase; 2.3.2 - Scramble Competition for Food; 2.3.3 - Competition for Mates; 2.3.3.1 - The Male Perspective; 2.3.3.2 - The Female Perspective; 2.3.4 - Modelling Social Vigilance; 2.4 - Monitoring predators; 2.4.1 - Early Detection; 2.4.2 - Incompatibility with Other Activities 2.4.3 - Modelling Anti-Predator Vigilance2.4.4 - Temporal

Organization of Anti-Predator Vigilance; 2.5 - Advertising to predators; 2.6 - Conclusions; Chapter 3 - Causation, Development and Evolution of Animal Vigilance; 3.1 - Introduction; 3.2 - Causation; 3.2.1 - Hormonal Factors; 3.2.1.1 - Testosterone; 3.2.1.2 - Oxytocin; 3.2.1.3 - Norepinephrine; 3.2.1.4 - Cortisol; 3.2.2 - Neural Factors; 3.2.2.1 - Neural Adaptations; 3.2.2.2 - Sleep; 3.2.2.3 - Laterality; 3.2.3 - Sensory Factors; 3.2.4 - Other Physiological Factors; 3.3 - Development of animal vigilance
3.4 - Evolutionary origin of animal vigilance3.5 - Conclusions; Chapter 4 - Drivers of Animal Vigilance; 4.1 - Introduction; 4.2 - Drivers associated with social risk; 4.2.1 - Sex; 4.2.2 - Dominance; 4.2.3 - Distance to Neighbours; 4.3 - Drivers associated with predation risk; 4.3.1 - Sex; 4.3.2 - Age and Number of Offspring; 4.3.3 - Body Mass; 4.3.4 - Distance to Neighbours; 4.3.5 - Visual Obstructions; 4.3.6 - Distance to Cover; 4.3.7 - Position in the Group; 4.3.8 - Presence of Predators; 4.3.9 - Environmental Factors; 4.3.9.1 - Wind; 4.3.9.2 - Light Levels; 4.3.9.3 - Precipitation
4.3.9.4 - Snow Cover4.4 - Drivers of vigilance associated with food or state; 4.4.1 - Food Availability; 4.4.2 - Energy Demands; 4.4.2.1 - Hunger; 4.4.2.2 - Temperature; 4.5 - Individual differences; 4.6 - Conclusions; Chapter 5 - Animal Vigilance and Group Size: Theory; 5.1 - Introduction; 5.2 - Predation risk and group size; 5.2.1 - Many-Eyes Effect; 5.2.2 - Collective Detection; 5.2.3 - Dilution; 5.2.4 - Confusion; 5.3 - Models of animal vigilance in groups; 5.3.1 - Early Models; 5.3.2 - McNamara and Houston's 1992 Model; 5.3.3 - Recent Developments 5.3.3.1 - Temporal Variation in Predation Risk

Sommario/riassunto

Animal Vigilance builds on the author's previous publication with Academic Press (Social Predation: How Group Living Benefits Predators and Prey) by developing several other themes including the development and mechanisms underlying vigilance, as well as developing more fully the evolution and function of vigilance. Animal vigilance has been at the forefront of research on animal behavior for many years, but no comprehensive review of this topic has existed. Students of animal behavior have focused on many aspects of animal vigilance, from models of its adaptive value to empirical research

2. Record Nr. UNINA9910142642003321

Titolo	Applied biochemistry and biotechnology : ABAB
Pubbl/distr/stampa	[Totowa, N.J.], : Humana Press [Totowa, N.J.] : , : Springer
ISSN	1559-0291
Disciplina	660
Soggetti	Solid-phase biochemistry Biotechnology Biochemistry Biomedical Engineering Química de l'estat sòlid Bioquímica Biotecnologia Periodicals. Revistes electròniques.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Issues for <Jan. 2000>- called: Part A, Enzyme engineering and biotechnology.