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The Great Animal Systems Challenge Answer Key

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~~MYSTERY WHEEL~~

~~OF SLIME~~

~~CHALLENGE!!~~

#Elmerswhatif

Minecraft BUT We

Can't Use A Crafting

Table... with

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@LDShadowLady A

Look Inside Usborne

The Great Animal

Search Book Mark

Zuckerberg \u0026

Yuval Noah Harari in

Conversation How

Many Moons Does

Each Planet

Have?/Meet the

Moons-UPDATE

2019/Extended-with

Pluto/song for kids

~~The world is poorly~~

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~~designed. But copying
nature helps. I~~

Searched 100

Dumpsters, Here's

What I Found ~~Why is~~

~~Africa Still So Poor? 1~~

YEAR in the WILD -

SURVIVAL in

AUSTRALIA! (Surviv

al/Fishing/Primitive/

Hunting) Change

Your Brain:

Neuroscientist Dr.

Andrew Huberman |

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Rich Roll Podcast

**HOW GOOD ARE
YOUR EYES? 94%
FAIL TO SOLVE**

THIS IN 10S! Simon
Sinek: Why Leaders
Eat Last *The*

Berenstain Bears:

Too Much Junk

Food/Go to Camp -

*Ep. 13 21 Lessons for
the 21st Century |*

Yuval Noah Harari |

Talks at Google 17

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*FUN BRAIN GAMES,
TRICKS AND TRIVIA
TO BLOW YOUR
MIND* Use This

**FORMULA To
Unlock The POWER
Of Your Mind For
SUCCESS! | Andrew
Huberman \u0026
Lewis Howes 5
Major Reasons
Religion Is the No.1
Cause of Poverty in
Africa | Rev Walter**

Page 8/90

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Mwambazi | Systems

TEDxLusaka

Bushcraft Skills -

Build Survival Tiny

House - Winter

Camping - Off Grid

Shelter - Diy - Asmr

*Foods for Protecting
the Body \u0026*

Mind: Dr. Neal

Barnard

Surviving 24 Hours

Straight In The

Bermuda Triangle

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Walter Veith \u0026amp;

Martin Smith -

Laudato Si, Gaia

Worship \u0026amp; The

Great Reset; Nothing

New - WUP? 72 |

Gave 100 Players

Creative Mode On My

Server For 100 Days

1. Introduction to

Human Behavioral

Biology Sleep is your

superpower | Matt

Walker Minecraft, But

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A Black Hole Grows

Every Second...

Underwater 100

Mystery Buttons..

Only 1 Will Let you

ESCAPE the Box!!

Neal Barnard, MD |

How Foods Affect

Hormones ~~Wild Kratts~~

~~FULL EPISODE!~~ |

~~Stuck on Sharks~~ |

~~PBS KIDS~~ Best

Animal Books I've

Read In 2020 So Far -

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Nature, Zoology

DRONE Solar System

Model- How far is

Planet 9? The Great

Animal Systems

Challenge

Berkeley County

Library System

(BCLS) is offering

tweens/teens ages

10-17 the opportunity

to win a \$15 Amazon

gift card in the Animal

Adaptation STEM

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(Science, Technology,
Engineering, and
Math) ...

Answer Key

~~BCLS Animal~~

~~Adaptation STEM~~

~~Challenge Begins July
14th~~

Agriculture is a major
driver of climate
change and
biodiversity loss. But
integrating trees into
farming practices can

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Challenge
boost food production,
store carbon and save
species.

Answer Key

~~Mixing trees and
crops can help both
farmers and the
climate~~

We won because we
smothered the enemy
in an avalanche of
production, the like of
which he had never
seen, nor dreamed

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possible.” ... Systems

Challenge

~~American Steel: How
Mass Production Won
the Second World
War~~

Over the past 30
years we have seen
the promulgation of
edge devices used in
the public and
commercial arena,
including intelligent
sensors, cameras,

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phones, household
appliances, medical ...

Answer Key

Is the edge the next
great technological
paradigm?

Pose for a fun photo
with a dozen different
animal ... Challenge
and "Tails and Tales"
Statewide Summer
Library Program is
sponsored by the
Friends of Medfield

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Library, the
Massachusetts
Library ...
Answer Key

~~Medfield Public
Library SUMMER
CHALLENGE!!~~

Humans began
culturing animal cells
... [constitute] cell
systems [that are]
very different from
those found in OoCs,”
Atzler explains.

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“Organoids provide
another great tool for
studying ...

Answer Key

~~Organs on Chips:~~

~~Expand the~~

~~Boundaries of In Vitro~~

~~Testing~~

animal and plant

health and also our

environment, water

safety and food

security. The GW4

AMR Alliance has

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Answer Key

been established to tackle this global challenge and become the UK's leading ...

~~GW4 takes a 'One Health' strategy to combat antimicrobial resistance~~

A new study, led by Dr. Laura Wilson from The Australian National University

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(ANU) looked closely at six pairs of domestic and wild animals. The findings challenge a popular theory for why ...

~~Why our dogs don't look like wolves: Research uncovers genetic clue in domestic animals~~
This project is supported in whole or

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in part by the U.S.
Institute of Museum
and Library Services
under the provisions

of the Library
Services and
Technology Act,
administered in
California by the ...

~~July Programs
Offered Through
Library System~~

you need the kinds of

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legs that evolution

gave animals on

Earth. So a team of

scientists from ETH

Zurich in Switzerland

and the Max Planck

Institute for Solar

System Research in

Germany have been

...

~~How Do You Make a~~

~~Robot Walk on Mars?~~

~~It's a Steep~~

Page 22/90

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Challenge

For lab-grown meat, there is a third challenge: the scaffold must be edible to ... What's neat about our study is that it shows that we can directly replace the animals with the grass they eat. Our ...

~~From Meadow to~~

Page 23/90

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~~Plate: The Cultured~~

~~Meat That Replaces~~

~~Animals with Grass~~

~~Answer Key~~

“It is a massive challenge ... animals and the competitors from each other. This is the first time in 19 years that the World Rally Championship has been back to Africa. It is going to be a ...

Download File PDF The Great Safari Rally

organisers outline
measures to avoid
wildlife interruptions
animal and human
cells. The potential of
the technology is
great and span from
curing genetically
disposed diseases to
applications in
agricultural and
industrial
biotechnology, but

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Challenge

~~Researchers'~~
~~algorithm to make~~
~~CRISPR gene editing~~
~~more precise~~

Our buildings provide great spaces for pigeons to nest. The lack of avian or other predators also removes an important source of population control. People should

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Animal Systems
Challenge
Answer Key
not be allowed to feed
animals ...

~~Govt seeks help as
bird droppings soil
building~~

For lab-grown meat,
there is a third
challenge: the
scaffold must ... it
shows that we can
directly replace the
animals with the grass
they eat. Our system

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Animal Systems
Challenge
needs to be scaled up
but I'm hopeful ...

Answer Key
~~New lab system uses
grass blades to turn
cells into cultured
meat~~

In a legal challenge
dubbed the "Great
Forest Case", his
foundation had
argued Tasmania's
regional forestry
agreement is invalid

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because it does not properly protect threatened native animals.

~~Bob Brown loses High Court bid on logging~~
For lab-grown meat, there is a third challenge: the scaffold must ... it shows that we can directly replace the animals with the grass

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they eat. Our system
needs to be scaled up
but I'm hopeful ...

Answer Key

~~From meadow to
plate: The cultured
meat that replaces
animals with grass~~
An affordable lab
system uses grass
blades to turn cells
into cultured meat, by
creating a scaffold
that animal stem cells

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Answer Key

... there is a third
challenge: the
scaffold must be
edible to humans ...

By 2050 the world's
population is
projected to grow by
one-third, reaching
between 9 and 10
billion. With
globalization and

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expected growth in global affluence, a substantial increase in per capita meat, dairy, and fish consumption is also anticipated.

The demand for calories from animal products will nearly double, highlighting the critical importance of the world's animal agriculture system.

Meeting the nutritional

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needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production. Ensuring sustainable agricultural growth will be essential to addressing this global

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Challenge to food
security. Critical Role
of Animal Science
Research in Food
Security and
Sustainability
identifies areas of
research and
development,
technology, and
resource needs for
research in the field of
animal agriculture,
both nationally and

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internationally. This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security; evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal

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products in sustainable production systems; and identifies factors that may impact the ability of the United States to meet demand for animal products, including the need for trained human capital, product safety and quality, and effective communication and

Download File PDF The Great Adoption of New Systems

knowledge, information, and technologies. The agricultural sector worldwide faces numerous daunting challenges that will require innovations, new technologies, and new ways of approaching agriculture if the food, feed, and fiber needs

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of the global
population are to be
met. The
recommendations of
Critical Role of Animal
Science Research in
Food Security and
Sustainability will
inform a new
roadmap for animal
science research to
meet the challenges
of sustainable animal
production in the 21st

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century.

Challenge
Exploration in
Laboratory Animal
Sciences

Understanding Life
Phenomena updates
our knowledge about
the newer
technologies such as
molecular biology,
genomics including
sequencing,
proteomics,

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transcriptomics, cell

culture, stem cell

culture, transgenesis

and their translation to

understand

systematics and

phylogeny of

laboratory animals at

molecular level. In

seven sections

Exploration in

Laboratory Animal

Sciences

Understanding Life

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Phenomena resolves

issues of
conservation,
applications in

environment

monitoring, production
of drugs and others.

Comparative research
has enabled use of

domestic animal

models that translate

the advances in basic
biosciences to the

schemes for human

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welfare including
medicine. Molecular

geneticists are

unravelling the

complexities of

mammalian genes

and the field of

biotechnology is

maturing at a fast

pace. Additionally,

research focused on

immunology and

animal behavior offer

new insight into ways

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of enhancing animal

welfare. The rise in

consumption of

animal proteins in

addition to the

challenges of

sustaining our natural

resources has given

animal scientists a

vast array of

opportunities to

engage in integrative

systems-based

research for meeting

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Answer Key

the challenges that
behold us. Exploration
in Laboratory Animal
Sciences

Understanding Life
Phenomena also
discusses the
manipulation of
animals as factories
for the production of
safe foods, drugs, and
sensors and others to
meet the
contemporary

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Challenges faced by

mankind in the new

world order created

by pandemic of Covid

19. It also includes

several chapters on

the causation and

management of

certain diseases and

impact of microbes on

life. Provides insight

to newer and futuristic

technologies to

understand disease

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process and drug design by animal models Addresses a wide variety of species and covers a wide variety of topics (such as animal species, the laboratory setting, regulatory guidelines, and ethical considerations) to fully prepare for work with all types of

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animals Gives a
perspective on
laboratory animal use
that allows to explain
the benefits of animal
use as required by
veterinary technology
program accreditation
procedure Includes
examples of animal
bio-technological
techniques (including
stem cell and tissue
engineering) for their

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Applications to
humanity Offers new
insight into ways of
enhancing animal
welfare by the
inclusion of research
results focused on
immunology and
laboratory animal
behavior

Leading authorities
from wide
geographical regions

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of the globe will

review the most up-to-date information in

relation to temperate

grasslands. Topics

covered are: nutritive

value of pasture; plant

characteristics

conducive to high

animal intake and

performance;

modelling of both

grass growth and

animal production and

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intake in grazing systems; optimising financial returns from grazing; decision support systems; optimal animal breeds and traits for grazing systems; challenges and opportunities for animal production in the immediate future .In addition, short papers will present the most recent

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research on the
above mentioned
topics. One paper will
present a
comprehensive
overview of animal
production from
pasture in Ireland This
book will be of interest
to grassland and
ruminant production
scientists,
mathematical
modellers working on

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grazing systems,
extension workers,
students of agriculture
and animal production
and progressive
livestock farmers.

Animal Disease
Surveillance is key to
improving disease
analysis, early
warning and
predicting disease
emergence and

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spread. Early warning systems are dependent on the quality of animal disease information collected at all levels via effective surveillance; therefore, data gathering and sharing is essential to understand the dynamics of animal diseases in diverse

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agro-ecological systems
settings to support
effective decision-
making to prevent
disease and for
emergency response.

Scientific experiments
using animals have
contributed
significantly to the
improvement of
human health. Animal
experiments were

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crucial to the conquest of polio, for example, and they will undoubtedly be one of the keystones in AIDS research. However, some persons believe that the cost to the animals is often high. Authored by a committee of experts from various fields, this book discusses the benefits that have

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resulted from animal research, the scope of animal research today, the concerns of advocates of animal welfare, and the prospects for finding alternatives to animal use. The authors conclude with specific recommendations for more consistent government action.

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Advances in Pig

Welfare analyzes

current topical issues

in the key areas of pig

welfare assessment

and improvement.

With coverage of both

recent developments

and reviews of

historical welfare

issues, the volume

provides a

comprehensive

survey of the field.

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The book is divided into two sections. Part One opens with an overview of main welfare challenges in commercial pig production systems and then reviews pig welfare hot spots from birth to slaughter. Part Two highlights emerging topics in pig welfare, such as pain and health

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assessment, early

socialization and

environmental

enrichment, pig-

human interactions,

breeding for welfare,

positive pig welfare

and pigs as laboratory

animals. This book is

an essential part of

the wider ranging

series Advances in

Farm Animal Welfare,

with coverage of

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cattle, sheep, pigs

and poultry. With its

expert editor and

international team of

contributors,

Advances in Pig

Welfare is a key

reference tool for

welfare research

scientists and

students,

veterinarians involved

in welfare

assessment, and

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indeed anyone with a professional interest in the welfare of pig. Provides in-depth reviews of emerging topics, research, and applications in pig welfare Analyzes on-farm assessment of pig welfare, an extremely important marker for the monitoring of real welfare impacts of

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any changes in
husbandry systems
Challenge
Edited by a leader in
Answer Key
the field of pig
welfare, with
contributing experts
from veterinary
science, welfare
academia, and
practitioners in
industry

AAP Prose Award
Finalist 2018/19

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Management of

Animal Care and Use
Programs in

Research, Education,
and Testing, Second

Edition is the

extensively expanded
revision of the popular

Management of

Laboratory Animal

Care and Use

Programs book

published earlier this

century. Following in

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the footsteps of the
first edition, this

revision serves as a

first line management

resource, providing

for strong advocacy

for advancing quality

animal welfare and

science worldwide,

and continues as a

valuable seminal

reference for those

engaged in all types

of programs involving

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animal care and use. The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current breadth and depth of the field with applicability to an international audience. Readers

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are provided with the
latest information and
resource and

reference material

from authors who are
noted experts in their
field. The book: -

Emphasizes the
importance of

developing a
collaborative culture
of care within an

animal care and use
program and provides

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information about how
behavioral

management through

animal training can

play an integral role in

a veterinary health

program - Provides a

new section on

Environment and

Housing, containing

chapters that focus on

management

considerations of

housing and

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enrichment delineated
by species - Expands
coverage of
regulatory oversight
and compliance,
assessment, and
assurance issues and
processes, including a
greater discussion of
globalization and
harmonizing cultural
and regulatory issues
- Includes more in-
depth treatment

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throughout the book

of critical topics in
program

management,

physical plant, animal
health, and

husbandry.

Biomedical research
using animals

requires

administrators and
managers who are

knowledgeable and
highly skilled. They

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must adapt to the
complexity of rapidly-
changing

technologies, balance

research goals with a

thorough

understanding of

regulatory

requirements and

guidelines, and know

how to work with a

multi-generational,

multi-cultural

workforce. This book

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is the ideal resource
for these
professionals. It also
serves as an

indispensable
resource text for
certification exams
and credentialing
boards for a multitude
of professional
societies Co-
publishers on the
second edition are:

ACLAM (American

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College of Laboratory
Animal Medicine);
ECLAM (European
College of Laboratory
Animal Medicine);
IACLAM (International
Colleges of
Laboratory Animal
Medicine); JCLAM
(Japanese College of
Laboratory Animal
Medicine); KCLAM
(Korean College of
Laboratory Animal

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Medicine); CALAS
(Canadian
Association of
Laboratory Animal
Medicine); LAMA
(Laboratory Animal
Management
Association); and IAT
(Institute of Animal
Technology).

Leading authorities
from wide
geographical regions

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of the globe will

review the most up-to-date information in

relation to temperate

grasslands. Topics

covered are: nutritive

value of pasture; plant

characteristics

conducive to high

animal intake and

performance;

modelling of both

grass growth and

animal production and

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research on the
above mentioned
topics. One paper will
present a
comprehensive
overview of animal
production from
pasture in Ireland This
book will be of interest
to grassland and
ruminant production
scientists,
mathematical
modellers working on

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grazing systems,
extension workers,
students of agriculture
and animal production
and progressive
livestock farmers.

Animals are widely
used in neuroscience
research to explore
biological
mechanisms of
nervous system
function, to identify

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the genetic basis of
disease states, and to
provide models of

human disorders and

diseases for the

development of new

treatments. To ensure

the humane care and

use of animals,

numerous laws,

policies, and

regulations are in

place governing the

use of animals in

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research, and certain

animal regulations

have implications

specific to

neuroscience

research. To consider

animal research

regulations from a

global perspective,

the IOM Forum on

Neuroscience and

Nervous System

Disorders, in

collaboration with the

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National Research

Council and the

Institute for

Laboratory Animal

Research, held a

workshop in

Buckinghamshire, UK,

July 26-27, 2011. The

workshop brought

together

neuroscientists, legal

scholars,

administrators, and

other key

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stakeholders to discuss current and emerging trends in animal regulations as they apply to the neurosciences. This document summarizes the workshop.

A respected resource for decades, the Guide for the Care and Use of Laboratory

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Animals has been
updated by a
committee of experts,
taking into
consideration input
from the scientific and
laboratory animal
communities and the
public at large. The
Guide incorporates
new scientific
information on
common laboratory
animals, including

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aquatic species, and

includes extensive
references. It is

organized around

major components of

animal use: Key

concepts of animal

care and use. The

Guide sets the

framework for the

humane care and use

of laboratory animals.

Animal care and use

program. The Guide

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discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic

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Animal Systems

is now divided into sections on terrestrial and aquatic animals and provides

recommendations for housing and environment,

husbandry, behavioral and population management, and

more. Veterinary care. The Guide discusses

veterinary care and the responsibilities of

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the Attending
Veterinarian. It
includes
recommendations on
animal procurement
and transportation,
preventive medicine
(including animal
biosecurity), and
clinical care and
management. The
Guide addresses
distress and pain
recognition and relief,

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and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and

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Specialized facilities
for animal housing
and research needs.
The Guide for the
Care and Use of
Laboratory Animals
provides a framework
for the judgments
required in the
management of
animal facilities. This
updated and
expanded resource of
proven value will be

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important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

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af3d87631a
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