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mark and the experience
of animal producers
following the 1998 ban
will serve to illustrate the
consequences on animal
performance and health of
withdrawing the (Key
words: antibiotic growth

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promoter, antimicrobial,
poultry, nutrition) 2005
Poultry Science
84:634–643

INTRODUCTION

Antibiotic growth
promotion in agricultural
animal

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ERR-264, U.S.
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from policymakers and
consumers is changing
how the animal
pharmaceutical industry

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develops and sells its
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drugs, which in turn, can
affect agricultural
production and meat prices.

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The USDA National
Animal Health Monitoring
System conducts periodic
studies of animal
agriculture and routinely
collects information about
antibiotic use and

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stewardship practices on
farms. For more
information about these
studies, see: Antibiotic
Use on Swine Operations
(PDF, 568 KB) Antibiotic
Use in Cattle Feedlots
(PDF, 829 KB) USDA
Activities

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Animal biotechnology has been used to produce genetically modified animals that synthesize therapeutic proteins, have improved growth rates or are resistant to disease.

Advances in animal biotechnology have been

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facilitated by recent
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progress in sequencing
animal genomes, gene
expression and metabolic
profiling of animal cells.

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minimizing the use of
antibiotics, growth
hormones and other
chemicals. ... On January
15, 2008, the USDA noted
that the progeny from
cloned animals are safe
and there is no restriction
on their movement into the

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food supply.
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1/11/2020 · Many
antibiotics used in animal
agriculture are poorly
absorbed in the gut and
consequently substantial
amounts of these
compounds and their

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breakdown pro-ducts are
Usda excreted. Elmund and
colleagues (10) estimated
that as much as 75% of the
antibiotics administered to
feedlot animals could be
excreted into the environ-
ment.

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food supply.

engineering
(biotechnology),
antibiotics, growth
hormones, or irradiation.
Animals raised on an
organic operation must

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meet animal health and welfare standards, not be fed antibiotics or growth hormones, be fed 100-percent organic feed, and must be provided access to the outdoors. Land must have

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(EPA), and U.S.
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Department of Agriculture
(USDA) have worked
together to ensure that
crops produced through
genetic engineering are
safe for people, animals,
and the environment.
Despite there being a wide

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range of foods—GMO and
non-GMO—available to
consumers, there is some
confusion around what
GMOs are and how they
are used in our food ...

promoting animal
productivity and growth

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Antibiotics As Growth
(i.e., “growth promotion”).

When used for growth promotion, antibiotics are administered to healthy animals to make them grow faster or utilize their feed more efficiently. The use of medically important antibiotics for growth

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promotion in the U.S. was
eliminated effective Jan. 1,
2017.1 When used ...

Animal biotechnology has
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The first document, New
Animal Drugs and New
Animal Drug Combination
Products Administered in
or on Medicated Feed or
Drinking Water of Food-
Producing Animals:
Recommendations for
Drug Sponsors ...

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9/5/2017 · The growth-promotion phenotype was shown to be transferrable to germ-free hosts by low-dose antibiotic-selected microbiota, indicating that the altered microbiota and not the antibiotics played a causal role (Cho et al.,

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Reference Cho,
Yamanishi, Cox, Methé,
Zavadil, Li, Gao, Mahana,
Raju, Teitler, Li,
Aleksyenko and Blaser
2012).

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antibiotics used in animal
agriculture are poorly
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engineering
(biotechnology),
antibiotics, growth
hormones, or irradiation.

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Animals raised on an
organic operation must
meet animal health and
welfare standards, not be
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percent organic feed, and
must be provided access to
the outdoors. Land must

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promoting animal
productivity and growth
(i.e., “growth promotion”).
When used for growth
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administered to healthy
animals to make them

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use of medically important
antibiotics for growth
promotion in the U.S. was
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no animal by-products. •

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Responsible Use of
Antibiotics (RUA):
o No Antibiotics will be used on
program birds except for
ionophores, and only in a
manner described by the
label for the control of
coccidiosis.
o Veterinary

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Used Important to Human
Medicine as defined

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or on Medicated Feed or
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'Raised Without ...

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5/12/2016 · Small doses of
antibiotics in animal feed
reduce this competition,
allowing the animal to
convert feed to muscle
more quickly causing
rapid growth (Animal
Smart, 2016). It is the
overuse of antibiotics for

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