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New resistance mechanisms are emerging and spreading globally, threatening our ability to treat common infectious diseases. A growing list of infections – such as pneumonia, tuberculosis, blood poisoning, gonorrhoea, and foodborne diseases – are becoming harder, and sometimes impossible, to treat as antibiotics

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become less effective.

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- World Health

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up-to-date knowledge

in mechanisms of

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and all recent

advances in fighting

microbial resistance

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in mechanisms of
antibiotic resistance
and all recent
advances in fighting
microbial resistance
such as the
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products, bacteriophages, marine products, algae, insect-derived products, and other alternative methods that can be applied to fight bacterial infections.

**Antibiotic
Resistance - 1st
Edition**

Drug resistance in *Shigella* spp. can result from many mechanisms, such as

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extrusion of drugs by active efflux pumps, decrease in cellular permeability, and overexpression of drug-modifying and -inactivating enzymes or target modification by mutation. 6,10, 11 The current study was done to review various antibiotic-resistance mechanisms of *Shigella* spp., with a particular focus on epidemiology ...

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Shigella : Antibiotic-Resistance Mechanisms And New Antimicrobial Approaches

The current review focuses on various antibiotic-resistance mechanisms of Shigellaspp. with a particular emphasis on epidemiology and new mechanisms of resistance and their acquisition, and also discusses the status of novel strategies for treatment of

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Shigella infection and vaccine candidates currently under evaluation in preclinical or clinical phases.

Shigella: Antibiotic-Resistance Mechanisms And New ...

This section describes common antibiotic resistance mechanisms in bacteria. Antibiotics disrupt essential structures or processes

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in bacteria. This in turn

either kills the bacteria

or stops them from

multiplying. Bacteria

have in turn evolved

many antibiotic

resistance mechanisms

to withstand the

actions of antibiotics.

Resistance

mechanisms -

Antibiotic resistance

- ReAct

But antibiotic-resistant

germs find ways to

survive. Antibiotics also

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kill good bacteria that protect the body from infection. Antibiotic-resistant germs can multiply. Some

resistant germs can also give their resistance directly to other germs. Once antibiotic resistance emerges, it can spread into new settings and between countries.

How Antibiotic Resistance Happens | Antibiotic ...

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Antibiotic resistance is the acquired ability of a bacterium to resist the effects of an antibiotic to which it is normally susceptible. It occurs when bacteria change in a way that reduces the efficacy of antibiotics. Thus, the bacteria continue to multiply in the presence of therapeutic levels of antibiotics.

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**Resistance: Origin,
Causes, Mechanism
and ...**

Attributing bacteria with feature of better adaptability, dispersal of antibiotic resistance genes to minimize effects of antibiotics by various means including horizontal gene transfer (conjugation, transformation, and transduction), Mobile genetic elements (plasmids, transposons,

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insertion sequences,
integrons, and
integrative-conjugative
elements) and
bacterial toxin-
antitoxin system led to
speedy bloom of
antibiotic resistance
amongst bacteria.

**Antibiotics,
Resistome and
Resistance**

Mechanisms: A ...

The emergence and
spread of drug-
resistant pathogens

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that have acquired new resistance mechanisms, leading to antimicrobial resistance, continues to threaten our ability to treat common infections. Especially alarming is the rapid global spread of multi- and pan-resistant bacteria (also known as “superbugs”) that cause infections that are not treatable with existing antimicrobial medicines such as

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antibiotics.

Mechanisms And

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resistance

Overview In addition to

the intrinsic

mechanisms of

resistance, bacterial

pathogens can acquire

genes and mutations

that mediate

resistance to

antibiotics. In some

cases, bacteria may

acquire multiple

mechanisms of

resistance to the same

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antibiotic, and in multidrug resistant bacteria, they acquire resistance to multiple classes of antibiotics.

Mechanisms of antimicrobial resistance

There are two important types of genetic mechanisms that can give rise to antibiotic resistance: mutation and acquisition of new genetic material. In the

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case of mutation, the rate at which resistance develops can be attributed to the rate at which bacteria mutate. A mutation is a permanent change in an organism's genetic material.

Antibiotic resistance **| Britannica**

All the mechanisms of antibiotic resistance can be narrowed into two part; mutation and

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horizontal gene transfer. In this context, both type of antibiotic resistance mechanisms will be discussed. The last mechanism belongs to horizontal gene transfer-mediated resistance and most of the other mechanisms of antibiotic resistance are mutation-mediated.

10 mechanisms of antibiotic resistance

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in Bacteria ...

The current review focuses on various antibiotic-resistance mechanisms of *Shigella* spp. with a particular emphasis on epidemiology and new mechanisms of resistance and their acquisition, and also discusses the status of novel strategies for treatment of *Shigella* infection and vaccine candidates currently under evaluation in

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preclinical or ...

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**Shigella: Antibiotic-
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Antibiotic Resistance:
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Approaches discusses
up-to-date knowledge
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antibiotic resistance
and all recent
advances in fighting
microbial resistance
such as the

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applications of nanotechnology, plant products, bacteriophages, marine products, algae, insect-derived products, and other alternative methods that can be applied to fight bacterial infections.

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drug. Microbial
resistance to

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antimicrobial agents is not a new phenomenon; it has been going on in soil microorganisms since the dawn of time, as competitive/survival mechanisms by microorganisms against other microorganisms. Understanding the mechanisms of resistance is important in order to define better ways to keep

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The Mechanics of

Antibiotics And

Resistance

Antimicrobial

resistance (AMR or AR)

occurs when microbes

evolve mechanisms

that protect them from

the effects of

antimicrobials. The

term antibiotic

resistance (AR or ABR)

is a subset of AMR, as

it applies to bacteria

that become resistant

to antibiotics. Resistant

microbes are more

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Resistance,

difficult to treat,
requiring higher doses,
or alternative
medications which may
prove more toxic.

Antimicrobial resistance - Wikipedia

Teixobactin was hailed as a 'game changer' when it was discovered in 2015 due to its ability kill multi-drug resistant bacterial pathogens such as MRSA without

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developing resistance.

If made...

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