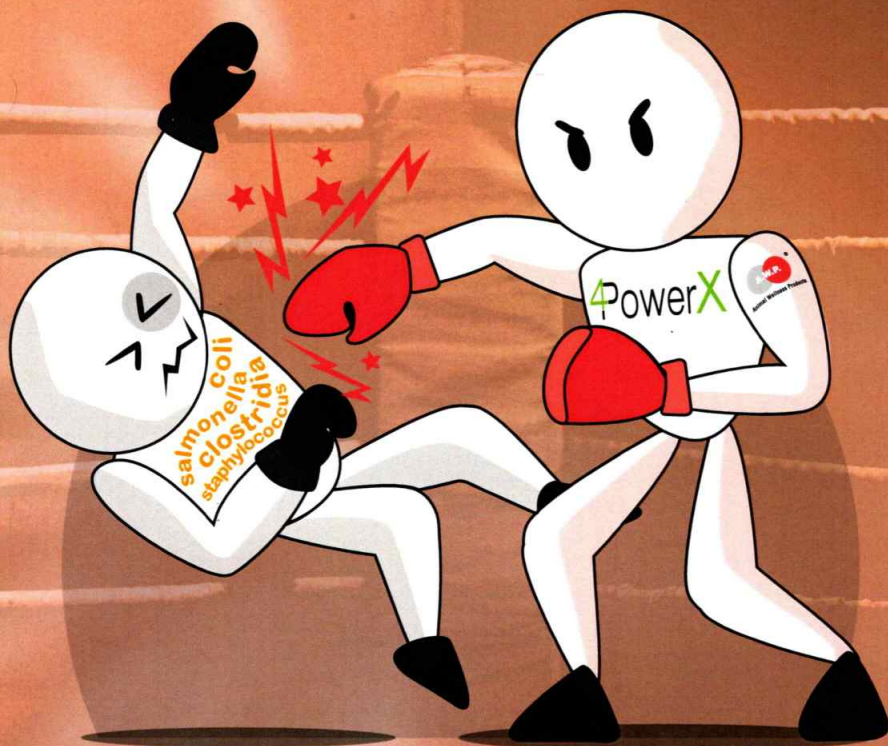




4PowerX

.....born to be microbial multi-drugs
resistance breaker



Local and global spread of antibiotic-resistant microorganisms is a significant risk factor for global health.

The persistence and spread of resistant microbial species and the binding of determinants at the human-animal-environment interface can alter microbial genomes, resulting in resistant superbugs in various niches.

All associations / peoples involved motivated by a consolidated link between three areas: human, animal and environmental health.

Several countries have implemented national action plans based on the One Health approach to combat antibiotic-resistant microbes, following the guidelines of the Food and Agriculture Organization (FAO) - World Organization for Animal Health (OIE) - World Health Organization (WHO).

Antimicrobials Resistance Origin and Diffusion

Nowadays, antimicrobial resistance (AMR) is intended as a “modern” microbial feature resulting from the unsuccessful and/or prolonged exposure to antibiotic treatments.

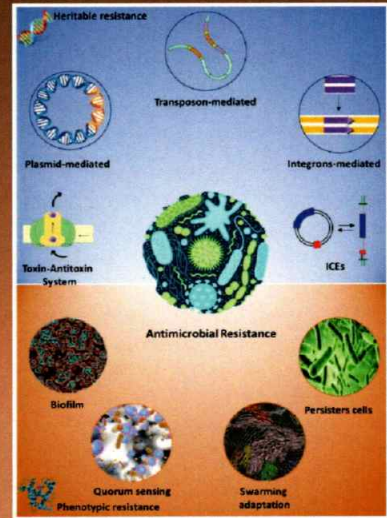
Pre-antibiotic era

However, the identification of antimicrobial resistance traits in ancient permafrost, isolated caves, and mummies witness the presence of the antimicrobial features since remote times, and a distinction between innate and acquired AMR is currently employed.

Antibiotic era

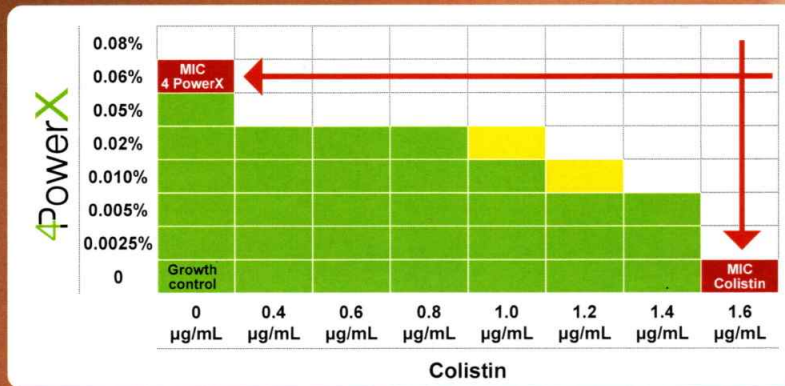
The first is the result of a slow and long evolutionary process microorganisms have performed to adapt to the changing environmental conditions; while the second is the result of a “quick” adaptation to a sudden selective pressure represented by the antimicrobial treatment”

Future of Antibiotics The antibiotic-resistant pathogens crisis needs investigation of novel research for tackling the antimicrobial resistance to avoid reversion to the pre-antibiotic era of medicine.



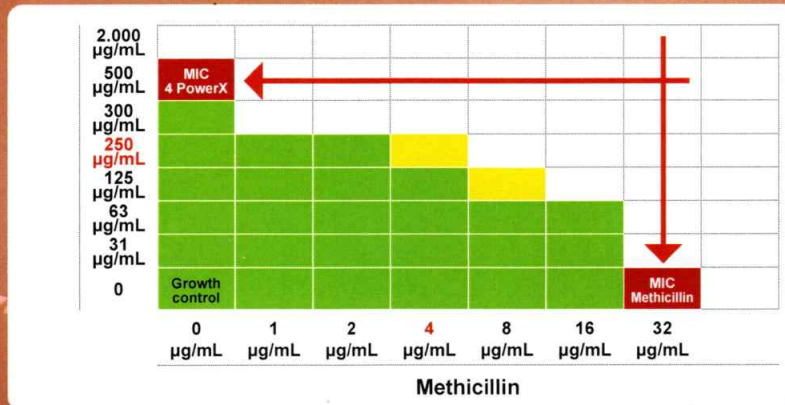
AWP organized a number of research to design the antibiotic resistance breaker able to re-sensitising resistant bacteria to antibiotics

Proven synergistical activity of 4PowerX to re-sensitising resistant E.coli MCR-1 to Colistin

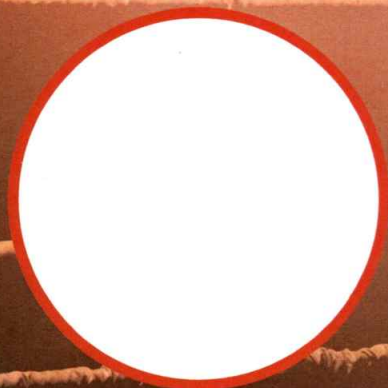


- MIC single
- Growth control
- Synergy
- No growth

Proven synergistical activity of 4PowerX to re-sensitising Staphylococcus aureus MDR to Methicillin



- MIC single
- Growth control
- Synergy
- No growth



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info@awpint.com

www.awpint.com