

# A Perspective on Antibiotic Resistance in the Environment

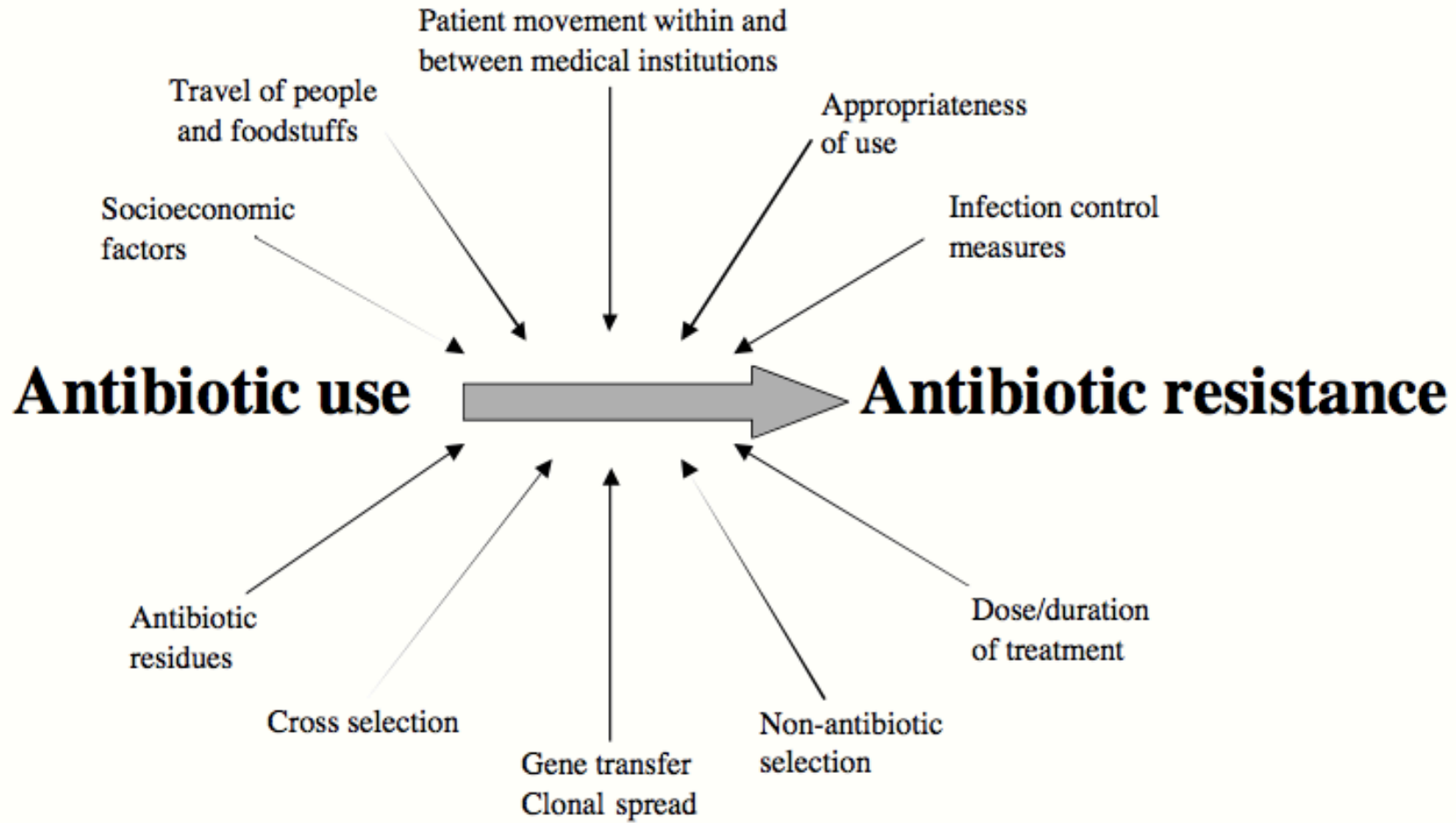
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**Scientific method:** A method of procedure that has characterized natural science since the 17th century, consisting in systematic observation, measurement, and experiment, and the formulation, testing, and modification of hypotheses.

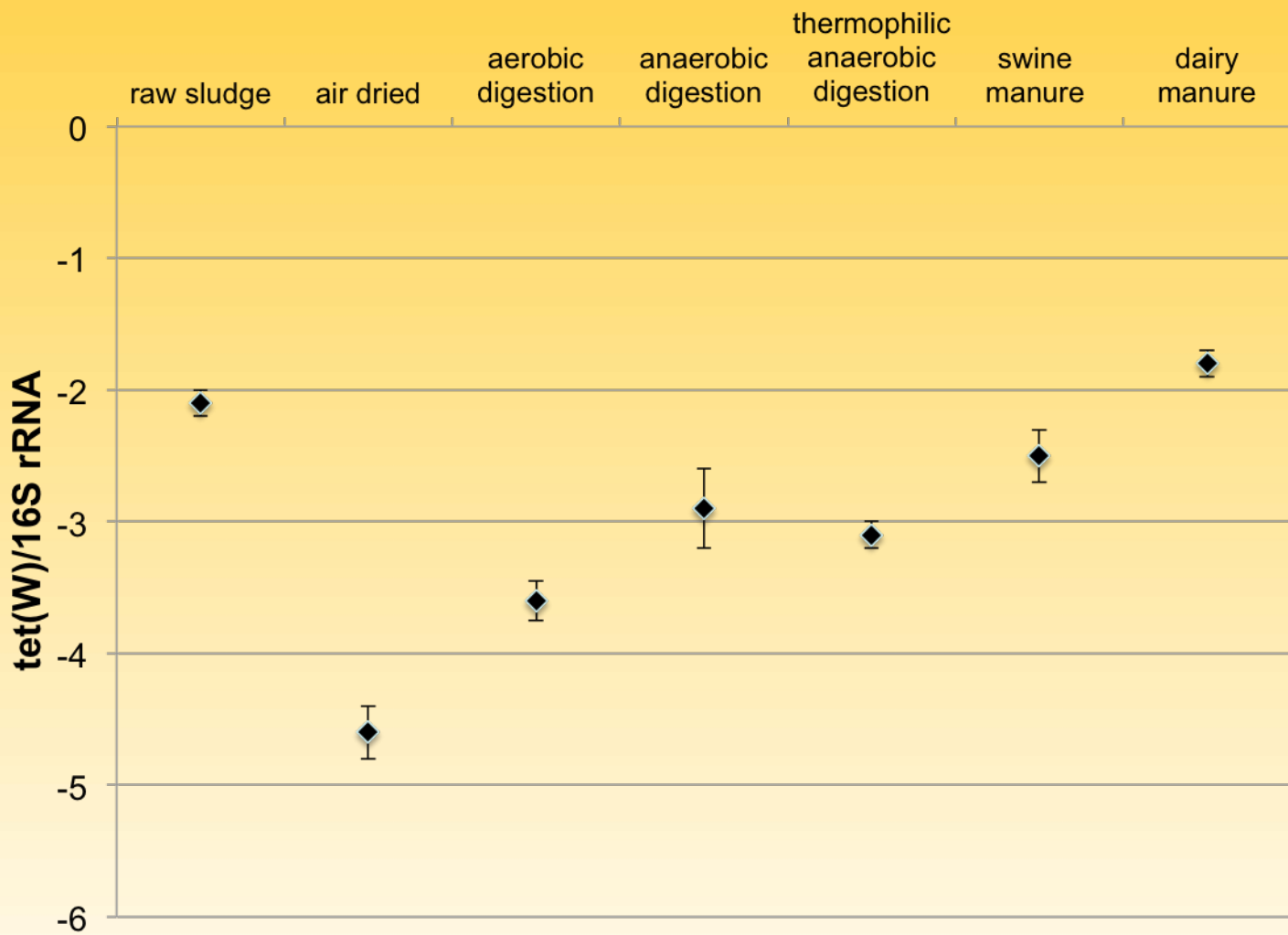
truth·i·ness

*/ˈtrʊθhɛnɪs/*

*noun informal*

the quality of seeming or being felt to be true, even if not necessarily true.





# Comment

- Fecal material is a substantial reservoir of antibiotic resistance
- Antibiotic use does not always lead to higher levels of resistance in fecal material
- Antibiotic stewardship in the environment means better treatment and disposal of fecal material



# Final Comments

- More research on antibiotic resistance in the environment
- Less manure/sludge, more land
- More treatment before land application, especially high temperature treatment

